



William M. Parry
Manager Environmental Remediation
Direct: (518) 767-6049
FAX: (904) 245-2727
E-mail: William_parry@csx.com

Public Safety & Environment Department
1 Bells Crossing Road
Selkirk, NY 12158

File: MD, Brunswick; Brunswick Yard; 9415381

January 16, 2017

Mr. Jim Richmond
Maryland Department of the Environmental
Oil Control Program
Waste Management Administration
1800 Washington Blvd., Suite 620
Baltimore, Maryland 21230-1719

Site Conceptual Model – Second Addendum
– CSXT Brunswick Yard, Brunswick, Maryland
MDE Case No. 1994-1379-FR

Mr. Richmond:

Please find attached the *Site Conceptual Model – Second Addendum* for the above referenced site. This report presents the data collected during implementation of the *Risk-Based Liquid-Phase Hydrocarbon Management Work Plan (RBLPHMWP)* dated January 14, 2016. The data evaluation presented in this report incorporates data collected during LPH transmissivity testing, further delineation of the LPH plume with a laser-induced fluorescence (LIF) investigation, and a natural source zone depletion (NSZD) assessment completed in 2016, as well as the ongoing fluid level gauging, LPH recovery, and groundwater sampling that occurs at the Site. The data evaluation is presented in accordance with recently developed and widely accepted risk-based site management practices for liquid-phase hydrocarbons (LPH).

Following MDE review of this report, CSXT requests a meeting with the MDE to discuss the risk-based LPH management evaluation and review the remedial strategy and objectives for the Site taking into consideration the evaluation results.

If you have any questions or concerns, please do not hesitate to contact me at (518) 767-6049.

Sincerely,

William Parry, CGWP, PG
Manager Environmental Remediation

Copy:

Susan Bull, MDE
Andrew Miller, MDE
Robert Frazier, MTA
Mark Klemmer, Arcadis
Albert Buell, Arcadis

File

CSX Transportation, Inc.

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

C&O Canal/CSXT Brunswick Rail Yard
Brunswick, Maryland
CSXT Project #9415381

January 16, 2017

A large orange geometric shape, consisting of a triangle and a rectangle, is positioned in the bottom right corner of the page. A thin white line runs horizontally across the page, intersecting the orange shape.

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

C&O Canal/CSXT Brunswick Rail Yard
Brunswick, Maryland
CSXT Project #9415381



Joshua Wilson
Associate Project Manager

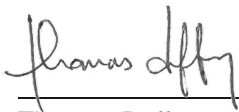
Prepared for:
CSX Transportation, Inc.



Albert Buell
Certified Project Manager

Prepared by:
Arcadis U.S., Inc.
7550 Teague Road
Suite 210
Hanover
Maryland 21076
Tel 410 987 0032
Fax 410 987 4392

Our Ref.:
MD000843.0012



Thomas Duffy
Project Scientist

Date:
January 16, 2017

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

CONTENTS

Acronyms and Abbreviations.....	iii
1 Introduction	1
2 Key Findings	1
3 Background.....	1
3.1 2007 Consent Order	2
3.2 2008 CAP and 2009 CAP Addendum.....	3
3.3 2013 Supplemental Investigation Report/Revised SCM.....	3
3.4 Risk-Based Liquid-Phase Hydrocarbon Management Work Plan.....	4
4 Risk-Based Liquid-Phase Hydrocarbon Management Work Plan Investigation – 2016.....	5
4.1 LPH Transmissivity Testing	6
4.1.1 LPH Baildown Testing Locations and Rationale	6
4.1.2 LPH Baildown Testing Findings and Conclusions.....	7
4.2 Laser Induced Fluorescence Investigation	7
4.2.1 LIF Investigation Locations and Rationale	7
4.2.2 LIF Investigation Findings and Conclusions.....	8
4.3 Natural Source Zone Depletion Investigation	9
4.3.1 NSZD Assessment Locations and Rationale	10
4.3.2 NSZD Assessment Findings and Conclusions.....	10
5 Site Data Supporting Risk Based LPH Management	10
5.1 Plume Stability	10
5.1.1 Historical Data and Field Screening Review	11
5.1.2 Fluid Level Gauging and Hydrograph Data.....	11
5.1.3 Dissolved-Phase Plume Stability.....	12
5.2 LPH Recoverability	13
6 Risk-Based LPH Management.....	14
7 References.....	14

TABLES

Table 1.	History of Environmental Activities Associated with the Site and C&O Canal
Table 2.	Fluid Level Gauging Data
Table 3.	LPH Recovery Volumes
Table 4.	Historical Groundwater Analytical Data
Table 5.	LPH Transmissivity Testing Results

FIGURES

Figure 1.	Site Location Map
Figure 2.	Historical Soil Boring, Monitoring Well, LIF, and NSZD Locations
Figure 3.	LIF Investigation Locations
Figure 4.	Historical LPH Plume Footprint
Figure 5.	NSZD Assessment Locations
Figure 6.	Measured LPH in Wells (2014-2016)
Figure 7.	Concentrations Trends of DRO in Groundwater
Figure 8.	Transmissivity Testing Locations

APPENDICES

Appendix A	API Transmissivity Analysis Input and Output
Appendix B	LIF Boring Logs and HPT Reports
Appendix C	NSZD Laboratory Report
Appendix D	Hydrographs
Appendix E	MAROS Input and Output

ACRONYMS AND ABBREVIATIONS

API	American Petroleum Institute
Arcadis	Arcadis U.S., Inc.
AST	above ground storage tank
ASTM	ASTM International
bgs	below ground surface
CAP	Corrective Action Plan
CO	Consent Order
CO ₂	carbon dioxide
CSXT	CSX Transportation, Inc.
DPE	dual-phase extraction
EC	electrical conductivity
ft	feet
HPT	hydraulic profiling tool
ITRC	Interstate Technology and Regulatory Council
LIF	laser-induced fluorescence
LPH	liquid-phase hydrocarbon
MAROS	Monitoring and Remediation Optimization System
MDE	Maryland Department of the Environment
mg/L	milligrams per liter
NPS	National Park Service
NSZD	natural source zone depletion
OCP	Oil Control Program
PID	photoionization detector
ppm	parts per million
RBLPHMWP	Risk-Based Liquid-Phase Hydrocarbon Management Work Plan
SCM	Site Conceptual Model
SIWP	Supplemental Investigation Work Plan
TPH-DRO	total petroleum hydrocarbons – diesel-range organics
UVOST®	ultraviolet optical sensing tool

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) has prepared this second addendum to the Site Conceptual Model (SCM) on behalf of CSX Transportation, Inc. (CSXT) for the CSXT Brunswick Yard (the Site) in Brunswick, Maryland to detail and incorporate the data collected in 2016 to refine the understanding of current Site conditions. This addendum also includes an evaluation of the current remedial strategy at the Site in accordance with recently developed and widely accepted risk-based site management practices for liquid-phase hydrocarbon (LPH). As discussed with the Maryland Department of the Environment (MDE) during a meeting on August 18, 2015, and detailed in the MDE approved Risk-Based Liquid-Phase Hydrocarbon Management Work Plan (RBLPHMWP; Arcadis 2016) dated January 14, 2016, the evaluation incorporates LPH transmissivity testing, further delineation of the LPH plume, and a natural source zone depletion (NSZD) assessment. In addition, the ongoing fluid level gauging, LPH recovery, and groundwater sampling that occurs at the Site periodically are also included in the evaluation. The results of this additional investigation have been used to prepare this addendum to the SCM.

2 KEY FINDINGS

The comprehensive evaluation of historical Site data and the data collected during the implementation of the RBLPHMWP activities indicates that LPH is mobile at the pore scale within the interior of the LPH plume. Mobile LPH is capable of moving laterally and vertically at the soil media pore scale, meaning that the LPH can enter a well, but is not necessarily able to migrate into unimpacted soil (leading to expansion of the plume footprint). Site data, including temporal observations of fluid levels and dissolved-phase concentrations, indicate that the LPH plume overall is stable and not migrating, despite small-scale mobility, consistent with the evaluation presented in the 2013 revised SCM and as described below in Section 3.3. The LPH transmissivity data from historical baildown testing and recently completed automated baildown testing indicate that LPH is no longer practicably recoverable at the Site, and that natural processes are actively depleting LPH mass through NSZD. These lines of evidence, developed through historical collection of data and supplemental investigations conducted in 2016 to demonstrate plume stability, are consistent with those developed for risk-based management of LPH sites as indicated by Interstate Technology and Regulatory Council (ITRC) and ASTM International (ASTM) guidance.

3 BACKGROUND

The Site, which has been an active rail yard since 1892, is located adjacent to the C&O Canal in Brunswick, Maryland (**Figure 1**). Petroleum impacts observed on the adjacent downgradient property operated by the National Park Service (NPS) were reported in 1992. Multiple phases of remedial investigations and remedial actions have been completed at the Site since 1992. The potential source areas for petroleum contamination include former aboveground storage tanks (ASTs; including a former 500,000-gallon diesel fuel AST) and former fueling systems located in the Brunswick Yard (**Figure 2**).

Site geology consists of quaternary alluvium overlying saprolite and is composed of heterogeneous layers of clay, silt, sand, and gravel. Alluvium is associated with river depositional environments; at the Site and NPS property, this material is associated with the Potomac River and its tributaries. Underlying the Site

and NPS property are two distinct overburden deposits. Directly overlying the saprolite is an orange-brown medium- to coarse-grained sand and gravel unit that has been observed in soil cores. The sand and gravel unit thins south of the Site approaching the Potomac River. Overlying the sand and gravel is a silty clay unit, described as greenish-gray or brown and up to 15 feet (ft) thick. Although the silty clay is consistently observed in borings across the Site, it appears to be thinner at locations near the former AST (GP-27, GP-30, and GP-44; **Figure 2**). This unit also thins to the south as it approaches the Potomac River. Various types of fill materials, including sand and cinders, overlie the silty clay unit. The thickness of the fill unit varies from 2 to 10 ft at the Site (Arcadis 2013b).

Groundwater flow regimes in the shallow water table unit, which is saturated in the vicinity of the Potomac River, and the lower sand and gravel water-bearing unit, are dominated by the Potomac River as a local and regional discharge feature. Primary groundwater flux at the Site occurs in the lower sand and gravel unit. Groundwater flow directions inferred from water-level measurements in both units are perpendicular to the canal and toward the Potomac River. The saprolite and deeper bedrock units are of low permeability and therefore do not significantly interact with shallow unconsolidated deposits. Groundwater at the Site has not been observed at depths greater than 20 ft below top of casing (Arcadis 2013b).

3.1 2007 Consent Order

The environmental activities completed at the Site are regulated by the MDE Oil Control Program (OCP), which has provided regulatory guidance for investigating and remediating the Site since receiving the report of contamination from the NPS in 1992. On July 7, 2007, CSXT signed a Consent Order (CO) formalizing the agreement between CSXT and the MDE that CSXT would remediate the Site. The CO provided a Site cleanup goal based on historical cleanup strategies employed at other LPH sites - to remove diesel fuel to the extent practicable as determined by the MDE (0.125 inch of sheen as measured in groundwater monitoring wells) so that there is no threat of migration, taking into consideration future rewatering of the C&O canal – as well as an anticipated schedule and specific remedial actions to be completed in support of the remedial goal. The deadline specified in the CO for completing the cleanup was no longer than 3 years from approval of the Corrective Action Plan (CAP Addendum), to be extended as reasonably necessary by mutual agreement of MDE and CSXT and documented in an amended CO. MDE approved the CAP Addendum on May 27, 2009.

The specific remedial actions outlined in the CO included soil and groundwater sampling to delineate subsurface LPH contamination on CSXT property as well as the downgradient NPS property, and development of an SCM and CAP based on the investigation results and designed to meet the remedial goals established in the CO.

Table 1 outlines the history of environmental activities associated with the Site. The investigations were completed in multiple phases, which were evaluated comprehensively. These investigations resulted in several iterations of the SCM, which was revised as applicable after new phases of investigations were completed and new data became available. Specific details regarding the activities completed and the results of the various phases of investigation are provided in the following documents:

- Site Conceptual Model (Arcadis 2007a)
- Soil and Groundwater Data from June 2007 Monitoring Well Installation Activities and July-August 2007 Direct Push Investigation (Arcadis 2007b)

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

- Revised Site Conceptual Model (Arcadis 2008a)
- Revised Site Conceptual Model (Arcadis 2008b)
- Soil and Groundwater Data from June 2008 Direct Push Investigation (Arcadis 2008c)
- Combined Well Installation Report/Updated Site Conceptual Model (Arcadis 2012a)
- Well Installation Summary Report (Arcadis 2013a)
- Supplemental Investigation Report/Revised Site Conceptual Model (Arcadis 2013b).

Figure 2 presents a comprehensive view of the Site and the locations of all soil/groundwater sampling locations at the Site.

3.2 2008 CAP and 2009 CAP Addendum

The third iteration of the SCM (Arcadis 2008b) was submitted to the MDE on August 29, 2008 concurrently with the CAP (Arcadis 2008d). The 2008 SCM concluded that LPH was present but not migrating, and that dissolved-phase total petroleum hydrocarbons diesel-range organics (TPH-DRO) was stable or decreasing at the Site. Based on these conclusions and the understanding of the Site conditions at the time, dual-phase extraction (DPE) was selected as the remedial alternative; however, DPE pilot testing completed in January 2009 concluded that:

- The heterogeneity within the subsurface limited the radius of influence of the applied vacuum.
- The fine-grained soils limited the mobility of the LPH.
- LPH recovery via DPE was not an effective alternative for this Site.

An alternative remedial approach (recovery via skimmer pumps) was recommended in the CAP Addendum (Arcadis 2009) and approved by the MDE on May 27, 2009. This remedy, implemented at the Site in July 2009, is still currently being employed at the Site, and includes:

- Monthly LPH monitoring at groundwater wells
- Active LPH skimming via skimmer pumps at five monitoring wells (initially three monitoring wells, expanded to five in September 2010) that contain greater than 0.5 foot of LPH
- Monthly LPH recovery using passive skimmers, absorbent socks, and peristaltic pumps at wells that contain measurable LPH but do not have active skimmers installed.

In addition to LPH recovery at the Site, site-wide gauging and groundwater sampling at select Site monitoring wells are completed quarterly to monitor dissolved-phase constituents in groundwater. LPH monitoring, recovery, and groundwater monitoring results are reported to the MDE quarterly.

3.3 2013 Supplemental Investigation Report/Revised SCM

The Revised Supplemental Investigation Work Plan (SIWP; Arcadis 2012b) was submitted to the MDE on October 12, 2012. This work plan detailed several investigation activities, which were identified to meet the following objectives for both on-site and off-site data collection and evaluation:

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

- Address data gaps related to the delineation of LPH occurrence.
- Further evaluate the efficacy of the current remedial strategy at the Site.
- Understand how potential contamination of soil/sediment in and below the canal prism would affect future use of the canal, including re-watering the canal.
- Further evaluate off-site groundwater quality.

The results of the Revised SIWP data collection efforts were presented in the Supplemental Investigation Report/Revised Site Conceptual Model (Arcadis 2013b). This Revised SCM included a comprehensive evaluation of all data collected at the Site through Revised SIWP implementation, including an LPH mobility and recoverability assessment. The data evaluation confirmed the conclusions of the 2008 SCM that LPH was present but not migrating, and that dissolved-phase TPH-DRO was stable or decreasing at the Site. The conclusions of this SCM version regarding the data objectives outlined above are summarized as follows:

- LPH mobility
 - LPH is mobile at the pore scale near the source areas, but is not migrating at the plume scale, meaning that LPH is capable of moving laterally and vertically at the soil media pore scale, LPH can enter a well, but has insufficient mobility at the pore scale to result in expansion of the LPH footprint.
- CAP Implementation Results
 - The remedy has been effective at recovering LPH based on:
 - An observed reduction in LPH distribution in both aerial and vertical extent since CAP implementation
 - An increase in recovery of LPH and reduction of source material
 - Reduced potential for migration.
 - Decline curve analysis performed using product recovery data estimates that the total recoverable LPH volume is approximately 1,500 gallons, and the anticipated remaining recoverable LPH volume is 800 gallons. An additional 3 to 6 years (2016 through 2019) of active skimming is anticipated to approach asymptotic recovery.

As of June 30, 2015, a total of approximately 1,040 gallons of LPH had been recovered at the Site, including approximately 742 gallons via skimmer pumps.

3.4 Risk-Based Liquid-Phase Hydrocarbon Management Work Plan

As discussed during the August 18, 2015 meeting with the MDE and described in the RBLPHMWP, Arcadis has recently revisited the historical data presented in the 2013 SCM revision, as well as data collected since the 2013 SCM revision. In accordance with recently developed standards and guidance, endorsed by ITRC, ASTM, and a number of state agencies, the data will be used to develop a risk-based approach to LPH management at the Site. The guidance from ITRC and ASTM provides revised methods for developing SCMs and evaluating LPH behavior in the subsurface based on a comprehensive evaluation of the many variables associated with any particular site. These variables include site-specific

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

conditions such as confined versus unconfined geologic conditions, LPH density and viscosity, fluctuations in groundwater, the results of historical remedial efforts, and the effects of NSZD. This comprehensive evaluation methodology has provided a new understanding that there is not a “one-size-fits-all” type of correlation between measurable LPH in wells compared to the actual subsurface conditions at any particular site. LPH transmissivity, rather than measured LPH thickness, is the most viable indicator of potential LPH recovery rates at a site.

The reevaluation of available data for the Brunswick Yard based on the ITRC guidance was presented at the August 18, 2015 meeting and included updated LPH recovery data used for decline curve analysis, revised LPH transmissivity estimates, and reevaluation of the overall Site conditions related to the presence and recoverability of LPH. Based on the updated evaluation of current Site conditions, Arcadis reached the following conclusions:

- LPH recovery rates have diminished greatly to near asymptotic conditions.
- Revised transmissivity estimates based on updated calculation methods indicate lower transmissivity rates than 2013 calculations, within the range of effective remediation via NSZD (<0.8 ft²/day).

Arcadis recommended that a revised, risk-based approach to LPH management be employed at the Site. The activities described in the RBLPHMWP were implemented to:

- Provide data to verify the revised calculations regarding LPH transmissivity and recoverability.
- Support this updated SCM and a revised CAP for the Site.
- Provide the basis for a revised CO using the risk-based LPH management strategy to more appropriately define the remedial goals for the Site.

4 RISK-BASED LIQUID-PHASE HYDROCARBON MANAGEMENT WORK PLAN INVESTIGATION – 2016

A comprehensive LPH mobility assessment was completed as part of the Supplemental Investigation in 2013. The overall objective of the Supplemental Investigation was to collect additional information to evaluate the nature and extent of contamination at the Site and fully characterize potential impacts to the adjacent C&O Canal National Historical Park property.

Results of the LPH mobility and recoverability assessment indicated that LPH at the Site was mobile within the interior of the LPH extent; however, the LPH mobility assessment also demonstrated that the LPH extent is not expected to expand beyond the currently defined footprint.

These results were presented to MDE in the Supplemental Investigation Report and Revised SCM in April 2013. Following correspondence regarding remaining measurable LPH in wells, the extension of the CO associated with the Site, and a number of small-scale investigations to address the extent of LPH in the subsurface, Arcadis met with MDE to discuss future remedial strategies and presented guidance from ITRC, ASTM, and other state agencies regarding recent advances in approaches to LPH site management. These strategies are focused on risk-based management, and using them, a preliminary approach to its application at the Site was developed (Arcadis 2015).

In addition to the historically available data (fluid level gauging, and LPH recovery volumes, and groundwater analytical data, included as **Tables 2, 3, and 4**, respectively), Arcadis recommended that

additional information be collected to support a new management strategy that would provide lines of evidence towards plume stability and infeasible LPH recovery and close data gaps in portions of the Site where previous investigations were limited or had not been completed. The RBLPHMWP was submitted proposing additional LPH transmissivity testing, laser-induced fluorescence (LIF) boring installation, and an NSZD assessment to be conducted along with ongoing Site activities (Arcadis 2015b). The following sections describe the lines of evidence used to assess LPH delineation, mobility, migration potential, and natural degradation at the Site under current conditions.

4.1 LPH Transmissivity Testing

LPH baildown testing was conducted to quantify LPH transmissivity and recoverability in the vicinity of the tested wells. LPH baildown tests are analogous to rising-head slug tests that are typically employed to estimate the average hydraulic conductivity of saturated geologic formation materials proximal to the screened portion of a groundwater well under prevailing ambient test conditions.

Baildown test data acquisition and interpretation was completed in accordance with guidance specified by ASTM (ASTM International 2013) and the American Petroleum Institute (API 2012).

4.1.1 LPH Baildown Testing Locations and Rationale

LPH baildown tests were previously completed at monitoring wells CSXT MW-41, CSXT MW-49, CSXT MW-53, CSXT MW-54, CSXT MW-55, and CSXT MW-56 in January 2013. These wells were chosen based on the historical measurement of LPH in the wells, the locations of the wells in the mobile portion of the LPH plume and proximity to a potential source area, and their use as LPH recovery wells. Initial testing at these wells indicated that LPH was potentially recoverable. Since that time, stable to decreasing measurements of LPH thickness in these wells, along with diminishing monthly LPH recovery volumes through use of an LPH skimmer system, indicate that these initial calculations may have been conservative, and that LPH recovery in the vicinity of the wells may not be practical.

To confirm the updated understanding of LPH recoverability at the Site, baildown tests were conducted at CSXT MW-41, CSXT MW-53, CSXT MW-54, CSXT MW-55, CSXT MW-56, and CSXT MW-59 in the summer of 2016 using automated data logging equipment (**Figure 2**). Gauging data were supplemented by the use of two automated sensors to evaluate air-LPH and LPH-water interfaces. The readings from these sensors were recorded using a portable data logger, and the data were then used to calculate a high-density time series data set of fluid level in the monitoring wells over time. These locations were chosen to repeat tests at wells where previous investigations indicated that LPH may be recoverable. An additional baildown test was conducted at CSXT MW-59 to assess recoverability, as increasing thicknesses of measurable LPH were observed in the well in 2015 due to fluctuation in groundwater elevation and localized confining geological conditions.

The automated data collection tool used to conduct the tests allows for the collection of a larger, more complete data set over a longer period of time and reduces safety hazards associated with manually collecting fluid level measurements.

4.1.2 LPH Baildown Testing Findings and Conclusions

Transmissivity calculated from the automated baildown test data collected in 2016 ranged from 0.009 to 0.56 foot²/day. These tests were conducted over varying time periods (4.8 to 112 hours) depending on the rate of LPH recovery and the results reflecting connectivity between the natural formation and the well screen. LPH recovery rates at these wells appear to have stabilized over time, indicating that recovery was not due to filter pack drainage that often occurs at the beginning of the test. **Appendix A** includes analysis output for each test from the API Workbook, and **Table 5** summarizes the results.

LPH recovery using hydraulic methods yields negligible LPH when the LPH transmissivity is at or below the reference values provided by ITRC (ITRC 2009). The calculated transmissivities for wells at which tests were performed during both the 2013 and 2016 events are at or below the ITRC transmissivity values that indicate the recovery of LPH by hydraulic methods is impractical, and will not produce sufficient LPH to beneficially reduce the overall LPH mass around these locations.

4.2 Laser Induced Fluorescence Investigation

This section describes data collected from Site activities to address identified data gaps in regard to the delineation of LPH to the south-southeast of the former roundhouse and between the rail lines to the east, as well as along a subsurface utility corridor (the former brick and mortar storm water pipe, replaced in January 2016) that may have potentially acted as a preferential pathway for the downgradient migration of LPH. Soil borings and wells had previously been installed downgradient and cross-gradient of the identified data gap area and the storm water pipe (GP-63, GP-65, CSXT MW-3, GP-35, CSXT MW-35, CSXT MW-50 and CSXT MW-25); however, the boring and well field density downgradient was insufficient to verify if a potential source for impacts existed downgradient of the roundhouse to the south-southeast or below and immediately adjacent to the utility. During the 2016 pipe replacement activities, no gross LPH impacts were identified. Excavated soils were screened with a photoionization detector (PID) during excavation with a maximum recorded reading of 11.1 parts per million (ppm), suggesting minimal petroleum impact. Impacts to groundwater, observable LPH, and evidence of LPH staining were not encountered or observed in excavated soils during the pipe replacement activities (Arcadis 2016).

4.2.1 LIF Investigation Locations and Rationale

An LIF investigation was conducted to confirm the presence or absence of LPH to the south-southeast of the currently delineated LPH plume (southeast of the former roundhouse and north of the canal), and in the vicinity of the former storm water pipe. At areas where LPH was observed in the LIF borings, the objective was also to determine the horizontal and vertical extent of impacts. One LIF boring was also completed in the vicinity of CSXT MW-59 to evaluate the vertical distribution of LPH at that location, and in the vicinity of CSXT MW-63 to provide an LIF response representative of subsurface conditions with known LPH presence. A description of this technology and its applicability at the Site in determining the extent of LPH in the subsurface, both horizontally and vertically, was provided in detail in the RBLPHMWP.

Hydraulic permeability and electrical conductivity (EC) were also recorded as the UVOST[®] probe was advanced. The LIF and EC tools were advanced simultaneously, while the hydraulic profiling tool (HPT) tool was advanced in a second adjacent boring located approximately 2 to 3 ft away from the initial boring

and at equivalent surficial conditions. An HPT measures permeability by injecting water into the formation as the probe is advanced. The pressure required to inject the water provides a direct indication of the permeability of the surrounding formation. The HPT data collected provide additional evidence of potential migration pathways and confining units when evaluated in conjunction with the UVOST® data. The soil type can also be interpreted from the EC data, as fine-grained soils generally exhibit a higher EC than coarser soils. The lithology can thus be determined by comparing the EC logs to previously completed boring logs and the corresponding HPT data.

4.2.2 LIF Investigation Findings and Conclusions

The LIF borings were advanced using direct-push equipment to 5 ft below the last LIF response in a boring or to refusal. If no LIF response was observed, the boring was terminated below the maximum depth to water measured historically at the Site (20 ft below ground surface [bgs]). LIF data were collected from ground surface to the bottom of each boring. At borings where shallow (less than 15 ft bgs) refusal was encountered, the direct-push equipment was offset approximately 10 ft from the original location and a second effort was made to advance the probe to depth. The LIF soil boring reports are included as **Appendix B**.

The investigation included the completion of 15 LIF borings (**Figure 3**) along the southern and southeastern portions of the Site and two calibration borings in the mobile portion of the LPH plume near wells with measurable thicknesses of LPH (CSXT MW-59 and CSXT MW-63). LIF responses indicative of the presence of LPH were observed at seven locations (LIF-1, LIF-2, LIF-3, LIF-6, LIF-14, LIF-16, and LIF-17), all of which are located within the historical LPH plume area (**Figure 4**). Because LIF is presented as a percentage of the normalized performance standard or calibration, which is conducted prior to each boring, the percent response observed at each location can be compared to determine the scale at which impacts exist across the Site. In general, higher responses indicate higher LPH saturation, while lower responses indicate lower LPH saturation across the Site. LIF borings installed to the southeast of the former roundhouse in the data gap area did not indicate the presence of LPH (LIF-4, LIF-5, LIF-7 through LIF-13, and LIF-15). The data collected from these boring locations address the identified data gap in that area.

The LIF boring (LIF-2) installed adjacent to CSXT MW-59 confirmed the presence and vertical distribution of LPH at that monitoring well location. HPT and EC data collected concurrently with LIF data were compared to the well installation log for a description of lithology, and from that, the presence of a localized confining condition was confirmed. Varying soil permeability within the zone of observed groundwater elevations, which fluctuate seasonally, likely create intermittent confining conditions, leading to the observations of increasing LPH thicknesses measured in CSXT MW-59 in 2015. LPH thickness had been observed at this location previously, with measurements ranging from non-detect to 0.33 foot of LPH. Over an 8-month period beginning in December 2014, LPH was measured in the well four times through August 2015 at thicknesses greater than had been measured historically, and at a maximum of 3.67 ft. Following the measurements, the LPH was manually removed from the well and generally did not reoccur for 2 to 3 months after removal. During the period of exaggerated thicknesses, fluid gauging data indicate a decrease in the range of seasonal groundwater fluctuation, creating a sustained period during which the groundwater elevation occurred at an observed layer of less permeable material that potentially acts as a confining unit. Fluctuations through this layer coincide with the measured increases in LPH

thickness. Under confined conditions, it is expected that thicknesses in measurable LPH in a well would increase as groundwater elevations increased.

To confirm the findings (both negative and positive LIF responses) of the investigation, LIF borings LIF-1 and LIF-2 were installed adjacent to existing monitoring wells CSXT MW-63 and CSXT MW-59, which both exhibit known LPH impacts and measurable LPH thickness, along with locations LIF-11 and LIF-12, which were installed near wells outside of the LPH plume with no LPH measured historically (CSXT MW-25 and CSXT MW-35, respectively). The LIF responses were compared to boring logs completed at the time of the well installation and historical fluid level measurements to confirm the presence or absence of LPH, as well as LPH stability. The LIF responses at CSXT MW-63 and CSXT MW-59 were the highest of the investigation, which is expected in areas with the greatest LPH saturation and where LPH is capable of mobilizing into wells. The LIF data collected near CSXT MW-25 and CSXT MW-35 did not display a positive response that would indicate the presence of LPH, consistent with the well installation logs and fluid level gauging data. At a number of LIF locations, measured responses of less than 5 percent of the reference emitter standard were considered a response to background material present in the historical fill at the Site and were not considered to be an indication of the presence of LPH.

Based on the findings of the LIF investigation, LPH was observed in areas of the Site where it had previously been identified and the findings did not redefine or alter the historical residual LPH plume boundary. At wells in mobile LPH plume, where LPH saturations are high enough for pore-scale mobility to occur and LIF responses are greatest, measured LPH thickness is consistently seen in wells. Outside of the mobile portion of the plume in the residual LPH impacted areas, where LIF responses are reduced and LPH saturations are at or below residual levels, LPH is not capable of mobilizing to the well and is not seen as a measurable thickness in the well. At LIF locations where no response was observed above background levels, there is no indication in previous boring or well installation logs of the presence of LPH, and LPH has not been measured in wells. As a result of the responses near the residual portion of the plume where LPH is at or near residual levels, the size of the residual plume commonly, as in this case, appears much larger than the mobile plume. The elevated responses in LIF borings installed adjacent to wells with known LPH occurrence and the diminishing or lack of response in areas near wells with no historical LPH accumulation are consistent with the understanding at the Site that LPH is stable and not migrating. Based on the results of the LIF investigation and observations during the former storm pipe excavation, the extent of LPH impacts is believed to be delineated to the south-southeast of the roundhouse and along the former utility.

4.3 Natural Source Zone Depletion Investigation

NSZD is a combination of natural processes that reduce the mass of LPH in the subsurface over time. NSZD occurs when processes act to physically redistribute LPH components to the aqueous phase via dissolution or to the gaseous phase via volatilization. In turn, dissolved or volatilized LPH constituents can be biologically degraded by microbial and/or enzymatic activity. Biodegradation rates of LPH constituents dissolved in groundwater or volatilized in soil gas depend on the type and availability of electron acceptors (e.g., oxygen, nitrate, sulfate, ferrous iron, and carbon dioxide [CO₂]) in the subsurface soil and groundwater. The traps are able to measure ongoing methanogenesis at the water table, in the smear zone, and below the water table by capturing the end result of methane production. The NSZD evaluation

was conducted to identify and quantify LPH depletion processes occurring within the saturated and unsaturated zones that lead to the natural depletion of the LPH at the Site.

4.3.1 NSZD Assessment Locations and Rationale

Biodegradation of vapor-phase petroleum hydrocarbons is well documented and can be determined by the flux of CO₂ through the ground surface (Sihota et al. 2011). Time-averaged NSZD rates were quantified by measuring CO₂ flux from the subsurface associated with LPH degradation using CO₂ traps installed at grade (approximately 6 inches below ground).

CO₂ traps were deployed at five locations, four (NSZD-1 through NSZD-4) of which were located within the LPH footprint and one (NSZD-5) used as a background sample located near CSXT MW-52, which is upgradient and outside of the LPH plume. A background trap is deployed to differentiate between background CO₂ flux associated with biological degradation of naturally occurring soil organic matter and CO₂ flux associated with LPH degradation. The traps were deployed for 2 weeks to obtain time-averaged NSZD rates. The ground surface at the Site near where the traps were installed is primarily a combination of a dirt, packed gravel, and rail ballast. Concrete and paved asphalt areas that may have interfered with soil gas flow were avoided. The locations of the traps installed for this assessment are shown on **Figure 2**.

4.3.2 NSZD Assessment Findings and Conclusions

Carbon dioxide traps were deployed on June 28, 2016 and recovered on July 14, 2016. Based on the analytical results (**Appendix C**), NSZD occurred at rates ranging from approximately 680 to 2,855 gallons/acre/year, with an average rate of 1,144 gallons/acre/year as shown on **Figure 5**. The highest rates of depletion are observed at NSZD-1 and NSZD-2 in the mobile portion of the plume, where LPH saturations are expected to be the greatest based on available data. Traps deployed at the edge of the mobile LPH footprint and closer to the residual portion of the LPH plume, NSZD-3 and NSZD-4, resulted in lower depletion rates, coinciding with areas where LPH saturation is expected to be lower based on available data. These results are consistent with recent literature (Lundegard and Johnson 2006, Sihota et al. 2011) and Arcadis' experience, which suggest that the magnitudes of petroleum hydrocarbon LPH losses through NSZD often fall within the range of hundreds to thousands of gallons per acre per year. The LPH depletion measured through volatilization and biodegradation in the unsaturated zone indicate that LPH will continue to become less mobile and recoverable over time. The natural depletion of LPH that was measured will continue into the future and further reduce the mobility of the LPH.

5 SITE DATA SUPPORTING RISK BASED LPH MANAGEMENT

5.1 Plume Stability

This section describes data collected from Site activities to support evaluation of the stability of LPH impacts, including review of historical soil boring and well installation logs, fluid level measurements, and an analysis of dissolved-phase concentration trends.

5.1.1 Historical Data and Field Screening Review

To further define the historical extent of LPH impacts at the Site, available Site data were reviewed comprehensively. This included a review of boring logs, well installation logs, fluid level gauging data, and soil analytical data. The results of the review indicate that the probable extent of LPH impacts historically extended from the former AST and Fuel Pump House in the western portion of the Site, to the Fueling Island and diesel ASTs in the center of the Site near the mobile portion of the LPH plume, and then to the south toward the rail lines parallel to the NPS canal, shown on **Figure 4**.

Impacts were noted during boring and well installation, and soil sampling extend across a significant portion of the Site, though many of these impacts appear to be at or below residual levels based on the lack of measurable LPH thickness in wells. The absence of LPH in those areas indicates that LPH has insufficient mobility, even at the pore scale, to enter a well and that LPH is at or below residual saturation levels, and is not expected to expand beyond the currently defined footprint. Additionally, naturally occurring processes of degradation will continue to reduce LPH mass in the subsurface over time in areas of both mobile and residual LPH.

5.1.2 Fluid Level Gauging and Hydrograph Data

Hydrographs of corrected groundwater elevation and measured LPH thickness were compiled for monitoring wells with historically observed LPH. The graphs were visually examined for trends in groundwater elevation and LPH thickness. LPH is potentially migrating when temporal fluid level gauging indicates the following:

- Clear trend of increasing thickness of LPH in monitoring wells through time, not attributable to seasonal water-table fluctuations
- Advancement of LPH across a portion of the monitoring well network previously lacking measurable LPH, suggesting that the LPH zone is expanding in that area.

As presented in the hydrographs in **Appendix D**, all monitoring wells that currently or historically had LPH observations have shown stable to decreasing LPH accumulations, with the exception of CSXT MW-59. LPH has not been measured in upgradient monitoring wells CSXT MW-51 and CSXT MW-52, measured in CSXT monitoring wells located directly south or downgradient of the source area (CS-5, CSXT MW-6R, CSXT MW-8, CSXT MW-9, CSXT MW-20, CSXT MW-43), or in any NPS monitoring wells (NPS MW-1 through NPS MW-3, and NPS MW-5 through NPS MW-18) with the exception of NPS MW-4. Additionally, monitoring wells cross-gradient (CSXT MW-21, CSXT MW-24, CSXT MW-29, and CSXT MW-64) of wells with observed LPH consistently exhibited no accumulation of LPH (**Figure 6**). In general, LPH thicknesses have remained within historical ranges or decreased and were limited to the vicinity of the historical plume footprint. The migration of LPH from the potential source areas to the south that formed the LPH footprint as it presently exists appears to have been impeded as it approached the NPS canal along the southern border of the Site. A review of historical and available Site data indicates the presence of low permeability material at or around the groundwater table to the south along the canal, which would have inhibited LPH migration. Additionally, while the groundwater flow and hydraulic gradient generally trend to the south towards the Potomac River, the presence of the water historically in the now dry canal could also have created a hydraulic gradient opposing the existing flow at the Site, creating a hydraulic

barrier that would have further inhibited the downgradient migration of LPH as it approached this area. Soil borings installed within the canal bed confirm the absence of LPH impacts in this area.

At CSXT MW-59, LPH thickness briefly increased over a period of approximately 6 months in 2015. In a confined aquifer system, a direct relationship between groundwater potentiometric surface elevations and LPH thickness observations is expected (e.g., LPH thicknesses increase as groundwater levels increase). These conditions were observed in monitoring well CSXT MW-59, where interbedded impermeable layers (confirmed with an LIF and HPT boring) across groundwater potentiometric surface elevations within the screened interval create a confined or intermittently confined system. Additionally, in a confined system, it is expected that as LPH thickness increases, elevations of air-LPH and potentiometric surface will increase (Hawthorne 2011), while the LPH-water interface remains constant. This relationship was generally observed in a diagnostic plot for the monitoring well, included in **Appendix D**.

LPH mobility at the pore scale is dependent upon the presence of a sufficient driving head and hydraulic gradient. Therefore, accumulation of LPH in monitoring wells is not a stand-alone indicator of LPH mobility. The stable and decreasing LPH accumulation in monitoring wells within the current LPH footprint is a strong indication that the plume is stable. The lack of LPH accumulation in downgradient wells demonstrates that the LPH is not migrating.

5.1.3 Dissolved-Phase Plume Stability

Statistical trending of dissolved-phase constituent concentrations at locations where separate-phase LPH is not observed in the well can be used to assess dissolved-phase plume stability. Stable or decreasing concentrations of dissolved LPH compounds in groundwater indicate that the LPH extent is stable or decreasing in size.

As described in detail in the RBLPHMWP (Arcadis 2015) the Air Force Center for Engineering and the Environment created the Monitoring and Remediation Optimization System (MAROS) program, which includes tools for non-parametric statistical concentration trend analyses using the Mann-Kendall statistical test. Groundwater concentrations of indicator constituents, selected based on LPH fluid type or available historical analytical data for a site, are analyzed in MAROS using Mann-Kendall to determine the stability of the groundwater plume. Dissolved-phase trends of DRO as a result of Mann-Kendall statistical analysis of MAROS are summarized in **Appendix E**.

Analytical data collected from 38 monitoring wells from July 1994 through June 2016 were used in this analysis to evaluate current Site trends. The plume stability evaluation did not include wells in which measured LPH was historically present. Additionally, because of the uncertainty involved in statistical analysis of data sets with large numbers of non-detect results, MAROS analysis was not conducted for wells CSXT MW-8 and CSXT MW-20, as 50 percent or more of sampling results were non-detect (these results are indicated with "N/A" in **Appendix E**).

Results of the Mann-Kendall statistical analysis performed on groundwater sampling data from 38 monitoring wells are presented in **Appendix E** and on **Figure 7**. Monitoring wells located downgradient of the source areas (NPS monitoring wells) exhibit stable to decreasing trends across the Site, with the exceptions of NPS-MW-1, NPS-MW-13, CSXT MW-3, CSXT MW-5, CSXT MW-6, CSXT MW-9, CSXT MW-24, CSXT MW-25, CSXT MW-27, CSXT MW-50, and CSXT MW-69, where no trend could be defined.

In general, concentrations of DRO are not increasing at any monitoring well with the exception of NPS MW-18, with the rest indicating stable or decreasing trends. A review of historical data shows that concentrations at NPS-MW-18 have fluctuated since installing in 2013 from 0.08 to 0.41 milligram per liter (mg/L), and concentrations have been decreasing since September 2015. Given the low concentrations in samples from the well, it does not appear that concentrations are increasing, and that instead they fluctuate slightly within a historical range below 0.50 mg/L. Also, concentrations at monitoring wells upgradient and cross-gradient of NPS-MW-18 (but still downgradient of LPH impacts) are decreasing and/or stable. These trends indicate that DRO concentrations in groundwater at the Site are stable despite the trend seen in NPS-MW-18.

In areas of the Site where a Mann-Kendall statistical analysis of MAROS could not be completed, a qualitative review of the time series data was conducted to evaluate dissolved-phase plume stability for TPH-DRO. At four wells in the southwest corner of the Site (CSXT MW-8, CSXT MW-9, CSXT-20, and NPS MW-1; **Figure 7**), a statistical trend was not completed because more than 50 percent of the analytical results were non-detect (CSXT MW-8 and CSXT-20) or a finding of no trend was returned (NPS MW-1 and CSXT MW-9), indicating that a statistical trend could not be resolved due to variability in groundwater trend concentrations. Results at these wells do not indicate an increasing or migrating trend in dissolved-phase concentrations, as they are generally at or below lab detection limits, or are non-detect. Additionally, at well CSXT MW-6R, where a MAROS analysis was not completed because measurable LPH was detected in one gauging event in 2006 at a thickness of 0.01 foot, analytical results show concentration fluctuations within a historical range that do not indicate an increasing or migrating dissolved-phase plume.

The prevalence of stable to decreasing trends, especially in monitoring wells located downgradient of areas where LPH is present, demonstrates that the dissolved-phase plume is stable or decreasing, which indicates that the LPH footprint is also stable or decreasing.

5.2 LPH Recoverability

LPH recovery with skimmer pumps, periodic pumping, and absorbent socks has been conducted at monitoring wells with measured LPH. Recovery rates have declined over the past 7 years of remedial effort. Total cumulative recovery by all methods at the end of the second quarter of 2016, since system implementation in July 2009, was 1,478 gallons of LPH with 789 gallons of LPH recovered via the skimmer pumps. Over that time, average monthly recovery from all wells has dropped from more than 33 gallons per month in 2009 to just more than 9 gallons per month in 2015 and 2016, a reduction in total recovery of almost 73 percent. The drop in recovery indicates that, as LPH has been removed from the subsurface using the skimmer system, the amount of recoverable LPH remaining in the formation in the vicinity of the wells has steadily declined. This decline results in decreased LPH saturations, so that the LPH that remains flows more slowly toward and into the well.

LPH transmissivity calculations from LPH baildown tests completed at Site wells indicate that LPH recovery potential is negligible, with values for the tested wells below 0.8 ft²/day (**Figure 8**), which are generally consistent with the lower limit of feasible recoverability that would beneficially reduce the LPH mass in the subsurface near the recovery well (ITRC 2009). Additionally, the observed decreases in LPH volume and recovery rate from LPH pneumatic skimming efforts from the mobile portion of the plume indicate that further LPH recovery will not provide a meaningful benefit for the Site.

6 RISK-BASED LPH MANAGEMENT

A review of available historical and newly collected data indicate that the LPH plume is stable and not migrating. Additionally, LPH dissolved-phase trends in groundwater at the Site are stable or decreasing in wells within the residual portion of the LPH plume and LPH is no longer feasibly recoverable from Site wells as defined by ITRC. The lines of evidence developed through historical collection of data and supplemental investigations conducted in 2016 to demonstrate plume stability are well suited for risk-based LPH management following recommendations and best practices put forth by ITRC and ASTM guidance.

7 REFERENCES

- American Petroleum Institute. 2012. User Guide for the API LNAPL Transmissivity Workbook: A Tool for Baildown Test Analysis, API Regulatory and Scientific Affairs Department, API Publication 46XX (pre-publication draft). September 2012.
- Arcadis. 2007a. Site Conceptual Model and Supplemental Work Plan, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, January 30, 2007.
- Arcadis. 2007b. Soil and Groundwater Data from June 2007 Monitoring Well Installation Activities and July-August 2007 Direct-Push Investigation, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project No. 9415381, September 6, 2007.
- Arcadis. 2008a. Revised Site Conceptual Model, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, February 11, 2008.
- Arcadis. 2008b. Revised Site Conceptual Model, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, August 29, 2008.
- Arcadis. 2008c. Soil and Groundwater Data from June 2008 Direct-Push Investigation, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project No. 9415381, July 8, 2008.
- Arcadis. 2008d. Corrective Action Plan, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project #9415381, August 29, 2008.
- Arcadis. 2009. Corrective Action Plan Addendum, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project #9415381, March 2, 2009.
- Arcadis. 2012a. Combined Well Installation Summary Report/Updated Site Conceptual Model, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, April 30, 2012.
- Arcadis. 2012b. Revised Supplemental Investigation Work Plan, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381. October 12, 2012.
- Arcadis. 2013a. Well Installation Summary Report, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project #9415381. March 8, 2013
- Arcadis. 2013b. Supplemental Investigation Report/Revised Site Conceptual Model, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, April 18, 2013.

SITE CONCEPTUAL MODEL - SECOND ADDENDUM

- Arcadis. 2015a. Supplemental Investigation Report/Revised Site Conceptual Model, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, April 18, 2013.
- Arcadis. 2015b. Risk Based LPH Management Work Plan (RBLPHMWP), C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, January 12, 2016.
- Arcadis. 2016. Pipe Replacement Construction Completion Report, C&O Canal/Brunswick Rail Yard, Brunswick, Maryland, CSXT Project # 9415381, May 2016.
- ASTM International, 2013. Standard Guide for Estimation of LNAPL Transmissivity, E 2856-13, ASTM International, West Conshohocken, PA.
- Bouwer, H. 1989. The Bouwer and Rice slug test--an update, *Ground Water*, vol. 27, no. 3, pp. 304-309.
- Bouwer, H. and R.C. Rice. 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, *Water Resources Research*, vol. 12, no. 3, pp. 423-428.
- Conrad, M.E., A.S. Templeton, P.F. Daley, and L. Alvarez-Cohen. 1999. Isotopic Evidence for Biological Controls on Migration of Petroleum Hydrocarbons. *Org. Geochem.*, 30:4061-4068.
- Cooper, H.H. and C.E. Jacob. 1946. A generalized graphical method for evaluating formation constants and summarizing well field history, *Transactions, American Geophysical Union*, vol. 27, pp. 526-534.
- Cooper, H.H., J.D. Bredehoeft, and S.S. Papadopoulos. 1967. Response of a finite-diameter well to an instantaneous charge of water, *Water Resources Research*, vol. 3, no. 1, pp. 263-269.
- Hawthorne, J. M. 2011. Diagnostic Gauge Plots Simple Yet Powerful LCSM Tools, *Applied NAPL Science Review*. H2A Environmental Ltd. February 2011.
- Interstate Technology & Regulatory Council. 2009. Evaluating LNAPL Remedial Technologies for Achieving Project Goals. LNAPL-2. Washington, D.C.: Interstate Technology & Regulatory Council, LNAPLs Team. www.itrcweb.org.
- Jacob, C.E. and S.W. Lohman. 1952. Nonsteady flow to a well of constant drawdown in an extensive aquifer, *Transactions, American Geophysical Union*, vol. 33, pp. 559-569.
- Sihota, N.J., Singurindy, O. and Mayer, K.U. 2011. CO₂-Efflux Measurements for Evaluating Source Zone Natural Attenuation Rates in a Petroleum Hydrocarbon Contaminated Aquifer. *Environmental Science and Technology*, 45(2): 482-488

TABLES



Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
September 1991	NPS	Investigation	National Park Service (NPS) conducted a soil survey evaluating the presence of petroleum residuals in the C&O canal silt near CSXT property in support of a bid for a rewatering permit. Reportedly, visual identification of petroleum was made in three areas; however, no samples were submitted for analysis of petroleum constituents.
March 1992	CSXT/Eder	Remediation	CSXT/Eder Associates (Eder) provided oversight for removal of a 16,000 gallon diesel underground storage tank (UST) adjacent to the former pump house and 500,000 gallon aboveground storage tank (former AST System). The UST had been previously pumped out and taken out of service in 1974. Approximately 100 cubic yards of impacted soils related to the UST were excavated and properly treated/disposed off-site. Analysis of soil confirmation sampling from the excavation showed total petroleum hydrocarbon (TPH) concentrations below the current MDE non-residential cleanup level of 620 mg/kg.
March 1992	CSXT/Eder	Investigation	CSXT/Eder collected soil samples to characterize soils identified in the 1991 NPS report as petroleum impacted.
July 1993	CSXT/Eder	Investigation	CSXT/Eder conducted a focused sediment/soil boring investigation performed to further investigate the extent of residual petroleum compounds in the C&O Canal in the three primary areas of concern and a small area near Lock #30.
January 20, 1994	MDE	Correspondence	Maryland Department of the Environment (MDE) required that CSXT install four monitoring wells on CSXT property between the C&O Canal and four suspected source areas, including the 500,000 gallon AST, the tank car diesel fuel unloading racks, the diesel fueling pump house, and the roundhouse.
July 1994	CSXT/Eder	Investigation	CSXT/Eder installed four monitoring wells (CSXT MW-1, 2, 3, and 4) to investigate the groundwater quality between the suspected source areas and the C&O Canal. Groundwater samples collected from the four monitoring wells were analyzed for BTEX and TPH-DRO. Liquid-phase hydrocarbons (LPH) were later observed at CSXT MW-2. CSXT/Eder recommended installation of two additional monitoring wells downgradient of CSXT MW-1, 2, and 4 on the northern canal tow path.
August 30, 1994	MDE	Correspondence	MDE approves the installation of the two additional wells and requests that CSXT install three additional monitoring wells with at least one installed on the south side of the C&O Canal.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
November 1994	CSXT/Eder	Investigation	CSXT/Eder conducts a product baildown test at CSXT MW-2. Results indicate a very slow LPH recovery rate. Based upon the slow recovery rate, a passive product recovery system was recommended by Eder.
January 1995	CSXT/Eder	Remediation	CSXT/Eder initiated passive free product recovery utilizing a Siphons Without a Pump (SWAP) 4 unit at MW-2.
August-September 1995	CSXT/Eder	Investigation	After coordination with NPS for property access, CSXT/Eder installed additional monitoring wells (CSXT MW-5, 6, 8, and 9) to further evaluate groundwater quality downgradient and in the vicinity of the former AST System. Groundwater samples were collected from CSXT MW-1, 3, 5, 6, 8, & 9 (LPH at CSXT MW-2 and CSXT MW-4). Groundwater samples were analyzed for BTEX, naphthalene, and TPH-DRO.
March 1996	NPS/E&E	Site Assessment and Characterization	On behalf of the NPS, Ecology and Environment, Inc. (E&E) prepared a Draft Site Assessment and Characterization Report based on additional sediment and soil sampling. The results of the collection of subsurface soils within the canal prism indicated that there were no PAH compounds exceeding the EPA Region III Risk-Based Concentrations for industrial exposure.
August – September 1996	NPS/E&E	Investigation	E&E installed five monitoring wells (NPS MW-1, 2, 3, 4, and 5) along the Canal on NPS property to determine if there has been any migration of residual petroleum compounds onto NPS property. Groundwater samples were collected from the five NPS wells and three CSXT wells (MW-6, 8, and 9) by NPS and analyzed for VOCs, SVOCs, and TPH. Dissolved phase total petroleum hydrocarbons (TPH) were detected in seven of the eight samples (all except NPS MW-4). PAH concentrations in groundwater were detected at two monitoring wells (NPS MW-4, and CSXT MW-6). These results were reported in the July 1997 Investigation Report (below).

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
July 1997	NPS/E&E	Investigation Report	On behalf of the NPS, E&E prepared and submitted an investigation report including the results of the surface and subsurface soil sampling conducted in August and September 1996 and monitoring well installation and groundwater sampling conducted during the same timeframe. Groundwater sampling results are discussed above. Surface soil analytical results indicated detectable PAH concentrations below screening criteria in all three samples and one TPH concentration above the MDE cleanup standard at NPS-SS-1 collected in the canal. The other TPH concentrations collected from surface soils were below MDE cleanup standards. Results of subsurface soil sampling (10 samples collected from 9 borings) indicated detectable PAH concentrations in 8 of the samples (all below screening criteria) and one TPH concentration (1,000 mg/kg) above the MDE cleanup standard detected in sample NPS-SB-4 collected from 8 to 10 ft below ground surface.
February 1998	CSXT/Eder	Investigation	LPH baildown tests were conducted at two CSXT wells (MW-1 and MW-6). The results of the baildown tests indicated that free product entered both wells at an extremely low rate. The water table rose several feet in November and no product was measured in either well, suggesting a strong association between water table fluctuations and the presence of free product.
1998	CSXT/Eder/ Gannett-Fleming	Remediation	CSXT/Gannett Fleming (purchased Eder) expanded LPH recovery to include CSXT MWs 1, 2, 4, and 6.
February 8, 1999	CSXT/Gannett-Fleming	Investigation	CSXT/Gannett Fleming submitted a Conceptual Investigation Plan (CIP) to evaluate any potential threat to surface water and to consider scenarios for adjusting the product recovery program, if necessary. The CIP also included a remedial alternatives analysis.
November 1999 – August 2000	CSXT/Gannett-Fleming	Investigation	Eleven soil borings and temporary piezometers (TP-1 through TP-11) were installed near the area with LPH to delineate the extent of LPH. Two soil samples are collected for geotechnical purposes.
December 2000	CSXT/Gannett-Fleming	Feasibility Report	CSXT/Gannett-Fleming submitted a Site Investigation Report including feasibility of remedial alternatives. The conclusion of the evaluation of remedial alternatives was that a collection trench recovery system located along the CSXT/NPS property line should be considered, carefully evaluating safety and constructability due to rail operations.
2001	NPS/E&E	Investigation	E&E installed eight additional wells NPS MW-10 through NPS MW-17.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
June 2003	NPS/E&E	Investigation	E&E conducted groundwater sampling of the NPS wells for analysis of TPH-DRO, LPH is observed at NPS-MW-4.
October 2003 – March 2004	CSXT/Gannett-Fleming	Remediation	CSXT/Gannett-Fleming constructs a barrier/recovery trench to stop migration of petroleum to NPS property. The initial design was to approximately 525 ft long and 12-15 feet deep. However, the design was revised after it could not be constructed solely on CSXT property. The design was revised a second time when the trench, running from west to east, could not be extended to a point south of TP-4 because construction would subvert a utility pole. The trench as constructed includes five collector sumps, accumulated LPH is removed via a vacuum truck. CSXT/Gannett Fleming installed barrier/recovery trench (BRT) with 5 internal collection sumps (CS-1 through CS-5).
July 2004	CSXT/Gannett-Fleming	Remediation	CSXT/Gannett-Fleming initiated monthly enhanced fluid recovery (EFR) events at monitoring wells/collector sumps with LPH. CSXT/Gannett Fleming began EFR activities to reduce measurable LPH at CSXT MW-2, EW-3, EW-4, and EW-5 and BRT collections sumps. EFR activities expanded to include all wells with measurable LPH.
January 2005	CSXT/Arcadis	Remediation	CSXT/Arcadis continued with monthly EFR events, Approximately 32,466 gallons of total fluids (LPH and water) were removed from July 2004 through June 2009.
September 2006	CSXT/Arcadis	Remediation	CSXT/Arcadis installed an automated LPH recovery pump in CSXT MW-2. A total of 54 gallons of LPH were recovered from September 2006 through July 2008.
January 30, 2007	CSXT/Arcadis	SCM and Work Plan Submittal	CSXT/Arcadis submitted the <i>Site Conceptual Model and Supplemental Work Plan</i> including installation of additional monitoring wells and abandonment of temporary wells.
April 16, 2007	MDE	Correspondence	MDE approved the <i>Site Conceptual Model and Supplemental Work Plan</i> dated January 30, 2007.
June 2007	CSXT/Arcadis	Investigation	CSXT/Arcadis abandoned 6 temporary wells (TP-1, TP-3, TP-4, TP-5, TP-10, and TP-11) and installed 8 permanent groundwater monitoring wells (MW-4R and MW-21 through MW-27).
July 18, 2007	CSXT/MDE	Consent Order	MDE and CSXT signed the Consent Order.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
July/August 2007	CSXT/Arcadis	Investigation	CSXT/Arcadis installed 24 direct-push borings (GP-20 and GP-26 through GP-49) with soil and groundwater sampling.
October 3, 2007	CSXT/Arcadis	Work Plan Submittal	CSXT/Arcadis submitted the <i>Work Plan for Monitoring Well Installation and Groundwater Sampling</i> .
November 9, 2007	MDE	Correspondence	MDE approved the <i>Work Plan for Monitoring Well Installation and Groundwater Sampling</i> dated October 3, 2007.
November 2007	CSXT/Arcadis	Investigation	CSXT/Arcadis installed 17 permanent groundwater monitoring wells (MW-20, MW-28 through MW-33, MW-35, MW-37, MW-38, MW-39, MW-41, MW-43, and MW-49 through MW-52).
February 8, 2008	CSXT/Arcadis	SCM Submittal	CSXT/Arcadis submitted the <i>Revised Site Conceptual Model (SCM)</i> (second version of the SCM).
March 12, 2008	CSXT/Arcadis	Work Plan Submittal	CSXT/Arcadis submitted the <i>Additional Site Characterization Work Plan</i> .
May 30, 2008	MDE	Correspondence	MDE approved the <i>Additional Site Characterization Work Plan</i> dated March 12, 2008.
June 2008	CSXT/Arcadis	Investigation	CSXT/Arcadis installed 24 direct-push borings (GP-53 through GP-76) with soil and groundwater sampling.
August 29, 2008	CSXT/Arcadis	SCM and CAP Submittal	CSXT/Arcadis submitted the <i>Revised SCM</i> (third version of the SCM) and the <i>Corrective Action Plan</i> , including the Dual-Phase Extraction (DPE) pilot test.
October 28, 2008	MDE	Correspondence	MDE approved the DPE pilot test portion of the <i>Corrective Action Plan</i> , with modifications.
December 16-18, 2008	CSXT/Arcadis	Investigation	CSXT/Arcadis installed 6 permanent groundwater monitoring wells (MW-53 to MW-58) as monitoring points for the DPE pilot test.
January 7 - 13, 2009	CSXT/Arcadis	Investigation	CSXT/Arcadis conducted DPE Pilot Test at CSXT MW-41 and EW-2.
March 2, 2009	CSXT/Arcadis	CAP Addendum Submittal	CSXT/Arcadis submitted the <i>Corrective Action Plan Addendum</i> which included the <i>Dual-Phase Extraction Pilot Test Results</i> .

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
May 27, 2009	MDE	Consent Order Milestone	MDE approved the <i>Corrective Action Plan Addendum</i> dated March 2, 2009, start of three year remedial goal specified in Consent Order.
July 14, 2009	CSXT/Arcadis	Remediation	CSXT/Arcadis implemented LPH removal activities in accordance with the <i>Corrective Action Plan Addendum</i> dated March 2, 2009. Activities included the installation of 3 LPH skimmer pumps and 5 passive LPH skimmers.
May 2010	CSXT/Arcadis	Remediation	Approximately 267 gallons of LPH recovered since implementation of LPH removal activities in accordance with the <i>Corrective Action Plan Addendum</i> in July 2009.
June 4, 2010	CSXT/Arcadis	Remediation	CSXT/Arcadis submitted <i>Proposed LPH Recovery System Enhancements</i> .
July 8, 2010	MDE	Correspondence	MDE approved <i>Proposed LPH Recovery System Enhancements</i> , dated June 4, 2010.
September 2, 2010	CSXT/Arcadis	Remediation	CSXT/Arcadis installed 3 additional LPH skimmer pumps per the <i>Proposed LPH Recovery System Enhancements</i> , dated June 4, 2010.
December 15, 2011	CSXT/Arcadis	Investigation	CSXT/Arcadis submitted a Proposed Additional Well Installation Letter Work Plan which included the installation of 8 additional monitoring wells (MW-59 through MW-66).
January 25, 2012	MDE	Correspondence	MDE approved the Proposed Additional Well Installation Letter Work Plan and requested the submittal of a Well Installation Summary Report by March 31, 2012 and an Updated SCM by April 30, 2012. CSXT/Arcadis requested that the documents be combined into one for submittal on April 30, 2012.
March 2012	CSXT/Arcadis	Investigation	Seven of the 8 proposed monitoring wells (CSXT MW-59 through MW-65) were installed and developed. MW-66 could not be installed due to subsurface infrastructure obstructions (i.e. the former roundhouse foundation).
April 30, 2012	CSXT/Arcadis	Remediation	Approximately 600 gallons of LPH have been recovered since implementation of LPH removal activities in accordance with the <i>Corrective Action Plan Addendum</i> in July 2009. A Revised Site Conceptual Model was submitted to MDE.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
July 18, 2012	CSXT/Arcadis	Investigation	The Supplemental Investigation Work Plan (SIWP) was submitted to the MDE. The SIWP outlined investigation activities to support soil characterization of the C&O Canal prism, dissolved phase hydrocarbon fate and transport evaluation (monitoring well development, groundwater sampling, and rising head testing), and further evaluation of liquid phase hydrocarbons (monitoring well installation, LPH characterization, short-term LPH stress testing, and a LPH mobility/recoverability analysis) at the Site.
August 17, 2012	NPS	Correspondence	NPS provided comments to CSXT regarding the SIWP.
September 6, 2012	MDE	Correspondence	MDE conditionally approved the SIWP, provided several modifications were made to the SIWP.
October 12, 2012	CSXT/Arcadis	Investigation	The SIWP was revised based on the comments provided by the MDE and NPS, and was resubmitted.
November 2012	CSXT/Arcadis	Investigation	Well redevelopment activities outlined in the SIWP were completed.
January 15, 2013	MDE	Correspondence	MDE conditionally approved the Revised SIWP, provided several modifications were made to the Revised SIWP.
January 2013	CSXT/Arcadis	Investigation	Well installations, semi-annual and SIWP groundwater sampling, hydraulic testing, and LPH stress testing was completed as outlined in the SIWP.
February 1, 2013	CSXT/Arcadis	Correspondence	SIWP progress update was provided to the MDE.
March 5, 2013	MDE/CSXT/ Arcadis	Correspondence	MDE correspondence was provided approving the progress schedule CSXT/Arcadis submitted on February 1, 2013. CSXT/Arcadis letter was submitted to MDE, documenting the presence of LPH in new well CSXT MW-70.
March 8, 2013	CSXT/Arcadis	Investigation	A Well Installation Summary Report was submitted to the MDE, documenting well installation activities at four new wells, CSXT MW-67, CSXT MW-68, CSXT MW-69, and CSXT MW-70.
March 15, 2013	CSXT/Arcadis	Remediation	Approximately 720 gallons of LPH have been recovered since implementation of LPH removal activities in accordance with the <i>Corrective Action Plan Addendum</i> in July 2009.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
April 19, 2013	CSXT/Arcadis	Remediation	The Supplemental Investigation Report and Revised Site Conceptual Model was submitted to MDE.
May, 2013	CSXT/Arcadis	Investigation	Site wide gauging and quarterly groundwater sampling of wells installed in 2012 and 2013 completed as outlined in the SIWP.
June 18, 2013	MDE/CSXT/ Arcadis	Correspondence	MDE correspondence was provided acknowledging Arcadis development of a work plan to address the source of LPH in CSXT MW-39 and CSXT MW-70; extension of the Consent Order associated with Brunswick Rail Yard contingent upon receipt of the Work Plan.
June 24, 2013	CSXT/Arcadis	Investigation	Well installed at NPS MW-18 to replace NPS MW-11.
July 25, 2013	CSXT/Arcadis	Investigation	Hydraulic testing (slug tests) conducted at NPS MW-18.
August 20, 2013	MDE/CSXT/ Arcadis	Remediation	A Supplemental LPH Delineation Work Plan aimed at delineating LPH occurrence near CSXT MW-39 and CSXT MW-70 was submitted to MDE.
August, 2013	CSXT/Arcadis	Investigation	Direct push C&O Canal Investigation installed 30 soil borings and 6 temporary piezometers in the C&O Canal, and collected soil and water samples as outlined in the SIWP.
September 12 and 16, 2013	CSXT/Arcadis	Investigation	Product samples collected from 5 on site monitoring wells for chemical fingerprinting by NewFields Companies, LLC. as part of the Canal Investigation.
September, 2013	CSXT/Arcadis	Investigation	Semi-annual and SIWP groundwater sampling was completed as outlined in the SIWP.
October 9, 2013	CSXT/Arcadis	Investigation	Closed circuit television investigation (CCTV) conducted of the underground pipe connecting the MTS fueling station spill pans with the oil-water separator.
October 25, 2013	MDE/CSXT/ Arcadis	Remediation	A revised Supplemental LPH Delineation Work Plan was submitted to MDE. The revised work plan included observations made during the CCTV investigation.
November 26, 2013	CSXT/Arcadis	Investigation	A Revised Site Conceptual Model Addendum 1 was submitted to MDE, documenting the soil boring investigation completed within the C&O Canal prism, as well as the replacement of NPS MW-11 with new well NPS MW-18.

Table 1
History of Environmental Activities Associated with the Site and the C&O Canal
Site Conceptual Model – Second Addendum
Brunswick Yard, Brunswick, Maryland

Date/Year	Company/Agency	Action Type	Description
April 21, 2014	CSXT/Arcadis	Investigation	A Pre-Design Investigation Work Plan (PDIWP) was submitted to the MDE to outline the strategy for investigating the LPH occurrences observed in the area of CSXT MW-39 and CSXT MW-70, in support of the design for replacing the subsurface pipe connecting the existing fueling island to the on-site oil water separator at the site, and to determine potential impacts to the soils surrounding the pipe.
August 13, 2014	MDE/CSXT/ Arcadis	Correspondence	MDE correspondence was provided approving the PDIWP.
November 2015	CSXT/Arcadis	Investigation	Utility location, soil boring investigation, and CSXT MW-71 installation activities outlined in the PDIWP were completed.
March 9, 2015	CSXT/Arcadis	Investigation	A Pipe Replacement Work Plan (PRWP) was submitted to the MDE providing the results of the PDI implementation and the design for replacement of the subsurface pipe.
June 10, 2015	MDE/CSXT/ Arcadis	Correspondence	MDE correspondence was provided approving of the PRWP.
August 18, 2015	MDE/CSXT/ Arcadis	Correspondence	MDE/CSXT/Arcadis attended a meeting at the MDE regarding the site status and to discuss the remediation strategy for the site. Arcadis presented new guidance from ITRC and ASTM regarding LPH site evaluations and risk-based approaches to LPH management, and preliminary strategy for applying the risk-based approach at the Brunswick Yard.
November 2015 - February 2016	CSXT/Arcadis	Remediation	Implementation of the activities outlined in the PRWP, including utility location, soil and brick and mortar pipe excavation, and pipe replacement and site restoration were completed. Additionally, MW-39 was abandoned due to proximity to the excavation.
January 14, 2016	CSXT/Arcadis	Investigation	A Risk-Based Liquid-Phase Hydrocarbon Management Work Plan (RBLPHMWP) was submitted to the MDE detailing the proposed investigation activities required to further refine the SCM and comprehensively evaluate these site conditions in accordance with recently developed and widely accepted risk-based management practices. The evaluation results will be incorporated into an updated Consent Order for the site.
May 2016 – August 2016	CSXT/Arcadis	Investigation	Implementation of the activities outlined in the RBLPHMWP, including LIF investigation, transmissivity testing, and natural source zone depletion (NSZD) sampling.

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
CS-1	9/18/2009	239.38		9.83		229.55	--		
	10/6/2009	239.38		9.82		229.56	--		
	10/19/2009	239.38		9.26		230.12	--		
	11/5/2009	239.38		8.6		230.78	--		
	12/4/2009	239.38	9.55	9.57	0.02	229.83	AS	0.007	
	1/20/2010	239.38		8.45		230.93	--		
	4/5/2010	239.38		7.69		231.69	--		
	5/3/2010	239.38		8.24		231.14	--		
	5/26/2010	239.38		7.95		231.43	--		
	6/15/2010	239.38		9.41		229.97	--		
	7/30/2010	239.38		10.85		228.53	--		
	9/2/2010	239.38		10.31		229.07	--		
	9/21/2010	239.38		10.35		229.03	--		
	10/13/2010	239.38		9.65		229.73	--		
	11/4/2010	239.38		9.7		229.68	--		
	12/10/2010	239.38		9.14		230.24	--		
	1/28/2011	239.38		9.82		229.56	--		
	2/14/2011	239.38		9.16		230.22	--		
	4/13/2011	239.38		7.97		231.41	--		
	5/26/2011	239.38		7.76		231.62	--		
	6/15/2011	239.38		8.92		230.46	--		
	7/14/2011	239.38		9.4		229.98	--		
	8/8/2011	239.38		9.8		229.58	--		
	9/14/2011	239.38		8.89		230.49	--		
	10/25/2011	239.38		7.6		231.78	--		
	12/15/2011	239.38		7.33		232.05	--		
	12/21/2011	239.38		5.51		233.87	--		
	1/27/2012	239.38		8.14		231.24	--		
	2/28/2012	239.38		8.95		230.43	--		
	3/21/2012	239.38		8.44		230.94	--		
	4/13/2012	239.38		9.18		230.2	--		
	5/25/2012	239.38		8.29		231.09	--		
	6/13/2012	239.38		8.25		231.13	--		
	7/18/2012	239.38		9.41		229.97	--		
	8/16/2012	239.38		9.45		229.93	--		
	9/24/2012	239.38		8.69		230.69	--		
	12/14/2012	239.38		8.83		230.55	--		
	1/11/2013	239.38		8.21		231.17	--		
	3/1/2013	239.38		7.75		231.63	--		
	4/26/2013	239.38		8.63		230.75	--		
	5/20/2013	239.38		8.37		231.01	--		
	6/28/2013	239.38		7.72		231.66	--		
	8/2/2013	239.38		8.8		230.58	--		
	9/4/2013	239.38		9.23		230.15	--		
	9/16/2013	239.38		8.52		230.86	--		
	10/30/2013	239.38		8.59		230.79	--		
	11/21/2013	239.38		5.37		234.01	--		
	12/19/2013	239.38		7.62		231.76	--		
	12/23/2013	239.38		7.58		231.8	--		
	1/15/2014	239.38		7.2		232.18	--		
	3/10/2014	239.38		7.43		231.95	--		
	4/28/2014	239.38		7.75		231.63	--		
	6/5/2014	239.38		7.4		231.98	--		
	6/9/2014	239.38		5.21		234.17	--		
	6/25/2014	239.38		7.35		232.03	--		
	7/17/2014	239.38		6.94		232.44	--		
	8/7/2014	239.38		8.44		230.94	--		
	9/15/2014	239.38		8.8		230.58	--		
	9/25/2014	239.38		9.22		230.16	--		
	10/30/2014	239.38		8.82		230.56	--		
	11/25/2014	239.38		5.36		234.02	--		
	12/29/2014	239.38		7.62		231.76	--		
	1/16/2015	239.38		7.79		231.59	--		
	2/13/2015	239.38		8.14		231.24	--		
	3/24/2015	239.38		7.11		232.27	--		
	4/15/2015	239.38		7.96		231.42	--		
	5/15/2015	239.38		8.23		231.15	--		
	6/23/2015	239.38		6.59		232.79	--		
	7/30/2015	239.38		8.36		231.02	--		
	8/24/2015	239.38		8.47		230.91	--		
	9/21/2015	239.38	9.4	9.41	0.01	229.97	AS	0.007	
	10/27/2015	239.38		8.59		230.79	--		
	11/23/2015	239.38		7.81		231.57	--		
	12/28/2015	239.38		6.99		232.39	--		
	2/5/2016	239.38					--		
	2/18/2016	239.38		1.84		237.54	--		
	3/23/2016	239.38	7.32	7.34	0.02	232.04	AS	0.0066	
	3/24/2016	239.38		7.28		232.1	--		
	3/25/2016	239.38		7.21		232.17	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/27/2016	239.38		8.13		231.25	--		
	5/25/2016	239.38		6.65		232.73	--		
	6/22/2016	239.38		6.2		233.18	--		
	7/28/2016	239.38		5.38		234	--		
	8/23/2016	239.38		6.68		232.7	--		
	9/26/2016	239.38		8.9		230.48	--		0.0206
CS-2	9/18/2009	236.9		7.5		229.4	--		
	10/6/2009	236.9		7.66		229.24	--		
	10/19/2009	236.9		6.81		230.09	--		
	11/5/2009	236.9		6.13		230.77	--		
	12/4/2009	236.9		6.09		230.81	--		
	1/20/2010	236.9		5.96		230.94	--		
	4/5/2010	236.9		5.22		231.68	--		
	5/3/2010	236.9		5.73		231.17	--		
	5/26/2010	236.9		5.45		231.45	--		
	6/15/2010	236.9		6.9		230	--		
	7/30/2010	236.9		8.38		228.52	--		
	9/2/2010	236.9		8.16		228.74	--		
	9/21/2010	236.9		8.22		228.68	--		
	10/13/2010	236.9		7.44		229.46	--		
	11/4/2010	236.9		7.2		229.7	--		
	12/10/2010	236.9		6.61		230.29	--		
	1/28/2011	236.9		7.42		229.48	--		
	2/14/2011	236.9		6.68		230.22	--		
	4/13/2011	236.9		5.47		231.43	--		
	5/26/2011	236.9		5.3		231.6	--		
	6/15/2011	236.9		6.42		230.48	--		
	7/14/2011	236.9		6.98		229.92	--		
	8/8/2011	236.9		7.48		229.42	--		
	9/14/2011	236.9		6.38		230.52	--		
	10/25/2011	236.9		5.32		231.58	--		
	12/15/2011	236.9					--		
	1/27/2012	236.9		5.63		231.27	--		
	2/28/2012	236.9		6.47		230.43	--		
	3/21/2012	236.9		6.01		230.89	--		
	4/13/2012	236.9		6.74		230.16	--		
	5/25/2012	236.9		5.85		231.05	--		
	6/13/2012	236.9		5.75		231.15	--		
	7/18/2012	236.9		7		229.9	--		
	8/16/2012	236.9		7.05		229.85	--		
	9/24/2012	236.9		6.27		230.63	--		
	12/14/2012	236.9		6.38		230.52	--		
	1/11/2013	236.9		5.74		231.16	--		
	3/1/2013	236.9		5.25		231.65	--		
	4/26/2013	236.9		6.09		230.81	--		
	5/20/2013	236.9		5.93		230.97	--		
	6/28/2013	236.9		5.23		231.67	--		
	8/2/2013	236.9		6.31		230.59	--		
	9/4/2013	236.9		6.79		230.11	--		
	9/16/2013	236.9		7.08		229.82	--		
	10/30/2013	236.9		6.14		230.76	--		
	11/21/2013	236.9		5.75		231.15	--		
	12/19/2013	236.9		5.15		231.75	--		
	12/23/2013	236.9		5.5		231.4	--		
	1/15/2014	236.9		4.78		232.12	--		
	3/10/2014	236.9		4.98		231.92	--		
	4/28/2014	236.9		5.29		231.61	--		
	6/5/2014	236.9		4.91		231.99	--		
	6/9/2014	236.9		7.67		229.23	--		
	6/25/2014	236.9		4.9		232	--		
	7/17/2014	236.9		4.5		232.4	--		
	8/7/2014	236.9		5.94		230.96	--		
	9/15/2014	236.9		6.35		230.55	--		
	9/25/2014	236.9		6.78		230.12	--		
	10/30/2014	236.9		6.38		230.52	--		
	11/25/2014	236.9		5.77		231.13	--		
	12/29/2014	236.9		5.43		231.47	--		
	1/16/2015	236.9		5.32		231.58	--		
	2/13/2015	236.9		5.7		231.2	--		
	3/24/2015	236.9		4.67		232.23	--		
	4/15/2015	236.9		5.54		231.36	--		
	5/15/2015	236.9		4.81		232.09	--		
	6/23/2015	236.9		4.14		232.76	--		
	7/30/2015	236.9		5.89		231.01	--		
	8/24/2015	236.9		5.96		230.94	--		
	9/21/2015	236.9		6.9		230	--		
	10/27/2015	236.9		6.04		230.86	--		
	11/23/2015	236.9		5.29		231.61	--		
	12/28/2015	236.9		4.46		232.44	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/5/2016	236.9					--		
	2/18/2016	236.9		4.19		232.71	--		
	3/23/2016	236.9		4.91		231.99	--		
	4/27/2016	236.9		5.69		231.21	--		
	5/25/2016	236.9		4.12		232.78	--		
	6/22/2016	236.9		4.8		232.1	--		
	7/28/2016	236.9		5.88		231.02	--		
	8/23/2016	236.9		4.24		232.66	--		
	9/26/2016	236.9		6.43		230.47	--		0
CS-3	9/18/2009	235.13		6.16		228.97	--		
	10/6/2009	235.13		6.25		228.88	--		
	10/19/2009	235.13		5.62		229.51	--		
	11/5/2009	235.13		5.29		229.84	--		
	12/4/2009	235.13		5.06		230.07	--		
	1/20/2010	235.13		4.85		230.28	--		
	4/5/2010	235.13		4.62		230.51	--		
	5/3/2010	235.13		5		230.13	--		
	5/26/2010	235.13		4.85		230.28	--		
	6/15/2010	235.13		5.92		229.21	--		
	7/30/2010	235.13		6.91		228.22	--		
	9/2/2010	235.13		6.43		228.7	--		
	9/21/2010	235.13		6.77		228.36	--		
	10/13/2010	235.13		5.99		229.14	--		
	11/4/2010	235.13		6.09		229.04	--		
	12/10/2010	235.13		5.8		229.33	--		
	1/28/2011	235.13		6.24		228.89	--		
	2/14/2011	235.13		5.86		229.27	--		
	4/13/2011	235.13		4.81		230.32	--		
	5/26/2011	235.13		4.87		230.26	--		
	6/15/2011	235.13		5.87		229.26	--		
	7/14/2011	235.13		6.08		229.05	--		
	8/8/2011	235.13		6.3		228.83	--		
	9/14/2011	235.13		6		229.13	--		
	10/25/2011	235.13		5		230.13	--		
	12/15/2011	235.13		4.86		230.27	--		
	1/27/2012	235.13		5		230.13	--		
	2/28/2012	235.13		5.84		229.29	--		
	3/21/2012	235.13		5.3		229.83	--		
	4/13/2012	235.13		6.08		229.05	--		
	5/25/2012	235.13		5.6		229.53	--		
	6/13/2012	235.13		5.1		230.03	--		
	7/18/2012	235.13		6.25		228.88	--		
	8/16/2012	235.13		6.28		228.85	--		
	9/24/2012	235.13		5.89		229.24	--		
	12/14/2012	235.13		6.08		229.05	--		
	1/11/2013	235.13		5.32		229.81	--		
	3/1/2013	235.13		5.02		230.11	--		
	4/26/2013	235.13		5.99		229.14	--		
	5/20/2013	235.13		5.44		229.69	--		
	6/28/2013	235.13		5.18		229.95	--		
	8/2/2013	235.13		6.04		229.09	--		
	9/4/2013	235.13		4.15		230.98	--		
	9/16/2013	235.13		6.31		228.82	--		
	10/30/2013	235.13		5.88		229.25	--		
	11/21/2013	235.13		6.12		229.01	--		
	12/19/2013	235.13		5.02		230.11	--		
	12/23/2013	235.13		4.6		230.53	--		
	1/15/2014	235.13		4.78		230.35	--		
	3/10/2014	235.13		4.89		230.24	--		
	4/28/2014	235.13		5.12		230.01	--		
	6/5/2014	235.13		4.92		230.21	--		
	6/9/2014	235.13		5.12		230.01	--		
	6/25/2014	235.13		4.82		230.31	--		
	7/17/2014	235.13		4.91		230.22	--		
	8/7/2014	235.13		5.82		229.31	--		
	9/15/2014	235.13		6.07		229.06	--		
	9/25/2014	235.13		6.1		229.03	--		
	10/30/2014	235.13		8.96		226.17	--		
	11/25/2014	235.13		6.1		229.03	--		
	12/29/2014	235.13		5.25		229.88	--		
	1/16/2015	235.13		5.2		229.93	--		
	2/13/2015	235.13		5.38		229.75	--		
	3/24/2015	235.13		4.95		230.18	--		
	4/15/2015	235.13		5.22		229.91	--		
	5/15/2015	235.13		5.62		229.51	--		
	6/23/2015	235.13		4.62		230.51	--		
	7/30/2015	235.13		5.73		229.4	--		
	8/24/2015	235.13		5.79		229.34	--		
	9/21/2015	235.13		6.14		228.99	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	10/27/2015	235.13		5.8		229.33	--		
	11/23/2015	235.13		5.51		229.62	--		
	12/28/2015	235.13		4.96		230.17	--		
	2/5/2016	235.13					--		
	2/18/2016	235.13		4.6		230.53	--		
	3/23/2016	235.13		5.05		230.08	--		
	4/27/2016	235.13		5.61		229.52	--		
	5/25/2016	235.13		4.82		230.31	--		
	6/22/2016	235.13		4.94		230.19	--		
	7/28/2016	235.13		5.84		229.29	--		
	8/23/2016	235.13		4.43		230.7	--		
	9/26/2016	235.13		5.95		229.18	--		0
CS-4	9/18/2009	234.81		5.75		229.06	--		
	10/6/2009	234.81		5.83		228.98	--		
	10/19/2009	234.81		5.21		229.6	--		
	11/5/2009	234.81		4.89		229.92	--		
	12/4/2009	234.81		4.7		230.11	--		
	1/20/2010	234.81		4.5		230.31	--		
	4/5/2010	234.81		4.29		230.52	--		
	5/3/2010	234.81		4.65		230.16	--		
	5/26/2010	234.81		4.49		230.32	--		
	6/15/2010	234.81		5.53		229.28	--		
	7/30/2010	234.81		6.5		228.31	--		
	9/2/2010	234.81		6.21		228.6	--		
	9/21/2010	234.81		6.4		228.41	--		
	10/13/2010	234.81		5.73		229.08	--		
	11/4/2010	234.81		6.74		228.07	--		
	12/10/2010	234.81		5.47		229.34	--		
	1/28/2011	234.81		5.84		228.97	--		
	2/14/2011	234.81		5.5		229.31	--		
	4/13/2011	234.81		4.5		230.31	--		
	5/26/2011	234.81		4.52		230.29	--		
	6/15/2011	234.81		5.48		229.33	--		
	7/14/2011	234.81		5.73		229.08	--		
	8/8/2011	234.81		5.94		228.87	--		
	9/14/2011	234.81		5.63		229.18	--		
	10/25/2011	234.81		4.65		230.16	--		
	12/15/2011	234.81		4.48		230.33	--		
	1/27/2012	234.81		4.67		230.14	--		
	2/28/2012	234.81		5.49		229.32	--		
	3/21/2012	234.81		4.96		229.85	--		
	4/13/2012	234.81		5.75		229.06	--		
	5/25/2012	234.81		5.24		229.57	--		
	6/13/2012	234.81		4.73		230.08	--		
	7/18/2012	234.81					--		
	8/16/2012	234.81		5.9		228.91	--		
	9/24/2012	234.81		5.53		229.28	--		
	12/14/2012	234.81		5.71		229.1	--		
	1/11/2013	234.81		4.95		229.86	--		
	3/1/2013	234.81		4.66		230.15	--		
	4/26/2013	234.81		5.65		229.16	--		
	5/20/2013	234.81		5.1		229.71	--		
	6/28/2013	234.81		4.83		229.98	--		
	8/2/2013	234.81		5.19		229.62	--		
	9/4/2013	234.81		5.79		229.02	--		
	9/16/2013	234.81		8.94		225.87	--		
	10/30/2013	234.81		5.51		229.3	--		
	11/21/2013	234.81		6.83		227.98	--		
	12/19/2013	234.81		4.66		230.15	--		
	12/23/2013	234.81		4.26		230.55	--		
	1/15/2014	234.81		4.41		230.4	--		
	3/10/2014	234.81		4.53		230.28	--		
	4/28/2014	234.81		4.73		230.08	--		
	6/5/2014	234.81		4.57		230.24	--		
	6/9/2014	234.81		4.75		230.06	--		
	6/25/2014	234.81		4.46		230.35	--		
	7/17/2014	234.81		4.55		230.26	--		
	8/7/2014	234.81		5.47		229.34	--		
	9/15/2014	234.81		5.69		229.12	--		
	9/25/2014	234.81		5.73		229.08	--		
	10/30/2014	234.81		5.58		229.23	--		
	11/25/2014	234.81		6.83		227.98	--		
	12/29/2014	234.81		4.88		229.93	--		
	1/16/2015	234.81		4.87		229.94	--		
	2/13/2015	234.81		5		229.81	--		
	3/24/2015	234.81		4.59		230.22	--		
	4/15/2015	234.81		4.9		229.91	--		
	5/15/2015	234.81		5.24		229.57	--		
	6/23/2015	234.81		4.26		230.55	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	7/30/2015	234.81		5.37		229.44	--		
	8/24/2015	234.81		5.45		229.36	--		
	9/21/2015	234.81		7.76		227.05	--		
	10/27/2015	234.81		5.44		229.37	--		
	11/23/2015	234.81		5.15		229.66	--		
	12/28/2015	234.81		4.99		229.82	--		
	2/5/2016	234.81					--		
	2/18/2016	234.81		4		230.81	--		
	3/23/2016	234.81		4.71		230.1	--		
	4/27/2016	234.81		5.24		229.57	--		
	5/25/2016	234.81		4.45		230.36	--		
	6/22/2016	234.81		4.6		230.21	--		
	7/28/2016	234.81		5.46		229.35	--		
	8/23/2016	234.81		4.41		230.4	--		
	9/26/2016	234.81		5.6		229.21	--		0
CS-5	9/18/2009	232.45		4.57		227.88	--		
	10/6/2009	232.45		5.1		227.35	--		
	10/19/2009	232.45		2.87		229.58	--		
	11/5/2009	232.45		2.55		229.9	--		
	12/4/2009	232.45		2.33		230.12	--		
	1/20/2010	232.45		2.15		230.3	--		
	4/5/2010	232.45		1.91		230.54	--		
	5/3/2010	232.45		2.3		230.15	--		
	5/26/2010	232.45		2.1		230.35	--		
	6/15/2010	232.45		3.55		228.9	--		
	7/30/2010	232.45		3.47		228.98	--		
	9/2/2010	232.45		6.39		226.06	--		
	9/21/2010	232.45		7.45		225	--		
	10/13/2010	232.45		5.89		226.56	--		
	11/4/2010	232.45		4.82		227.63	--		
	12/10/2010	232.45		3.31		229.14	--		
	1/28/2011	232.45		5.9		226.55	--		
	2/14/2011	232.45		4.15		228.3	--		
	4/13/2011	232.45		2.1		230.35	--		
	5/26/2011	232.45		2.15		230.3	--		
	6/15/2011	232.45		3.38		229.07	--		
	7/14/2011	232.45		5.2		227.25	--		
	8/8/2011	232.45		6.78		225.67	--		
	9/14/2011	232.45		3.49		228.96	--		
	10/25/2011	232.45		2.31		230.14	--		
	12/15/2011	232.45		2.15		230.3	--		
	1/27/2012	232.45		2.29		230.16	--		
	2/28/2012	232.45		3.25		229.2	--		
	3/21/2012	232.45		2.56		229.89	--		
	4/13/2012	232.45		3.67		228.78	--		
	5/25/2012	232.45		2.87		229.58	--		
	6/13/2012	232.45		2.35		230.1	--		
	7/18/2012	232.45		5.74		226.71	--		
	8/16/2012	232.45		5.98		226.47	--		
	9/24/2012	232.45		3.16		229.29	--		
	12/14/2012	232.45		3.74		228.71	--		
	1/11/2013	232.45		2.58		229.87	--		
	3/1/2013	232.45		2.26		230.19	--		
	4/26/2013	232.45		3.63		228.82	--		
	5/20/2013	232.45		2.74		229.71	--		
	6/28/2013	232.45		2.46		229.99	--		
	8/2/2013	232.45		4.9		227.55	--		
	9/4/2013	232.45		5.59		226.86	--		
	9/16/2013	232.45		6.1		226.35	--		
	10/30/2013	232.45		4.29		228.16	--		
	11/21/2013	232.45		9.3		223.15	--		
	12/19/2013	232.45		2.3		230.15	--		
	12/23/2013	232.45		1.89		230.56	--		
	1/15/2014	232.45		2.03		230.42	--		
	3/10/2014	232.45		2.16		230.29	--		
	4/28/2014	232.45		2.36		230.09	--		
	6/5/2014	232.45		2.21		230.24	--		
	6/9/2014	232.45		2.31		230.14	--		
	6/25/2014	232.45		2.08		230.37	--		
	7/17/2014	232.45		2.12		230.33	--		
	8/7/2014	232.45		3.31		229.14	--		
	9/15/2014	232.45		4.95		227.5	--		
	9/25/2014	232.45		5.4		227.05	--		
	10/30/2014	232.45		4.96		227.49	--		
	11/25/2014	232.45		7.3		225.15	--		
	12/29/2014	232.45		2.58		229.87	--		
	1/16/2015	232.45		2.52		229.93	--		
	2/13/2015	232.45		2.69		229.76	--		
	3/24/2015	232.45		2.22		230.23	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/15/2015	232.45		2.54		229.91	--		
	5/15/2015	232.45		2.99		229.46	--		
	6/23/2015	232.45		1.9		230.55	--		
	7/30/2015	232.45		3.39		229.06	--		
	8/24/2015	232.45		4.3		228.15	--		
	9/21/2015	232.45		7.71		224.74	--		
	10/27/2015	232.45		3.88		228.57	--		
	11/23/2015	232.45		3.03		229.42	--		
	12/28/2015	232.45		2.26		230.19	--		
	2/5/2016	232.45					--		
	2/18/2016	232.45		6.5		225.95	--		
	3/23/2016	232.45		2.37		230.08	--		
	4/27/2016	232.45		3.12		229.33	--		
	5/25/2016	232.45		2.09		230.36	--		
	6/22/2016	232.45		2.16		230.29	--		
	7/28/2016	232.45		4.08		228.37	--		
	8/23/2016	232.45		1.99		230.46	--		
	9/26/2016	232.45		4.79		227.66	--		0
MW-01	6/15/2010	247.2		15.81		231.39	--		
	9/21/2010	247.2		17.67		229.53	--		
	12/10/2010	247.2		15.81		231.39	--		
	2/14/2011	247.2		15.97		231.23	--		
	5/27/2011	247.2		14.09		233.11	--		
	8/8/2011	247.2		16.98		230.22	--		
	12/15/2011	247.2		14.34		232.86	--		
	3/21/2012	247.2		15.39		231.81	--		
	6/13/2012	247.2		15		232.2	--		
	9/24/2012	247.2		15.54		231.66	--		
	1/11/2013	247.2		15.05		232.15	--		
	5/20/2013	247.2		15.14		232.06	--		
	9/16/2013	247.2		16.75		230.45	--		
	12/23/2013	247.2		11.68		235.52	--		
	3/10/2014	247.2		14.23		232.97	--		
	6/9/2014	247.2		14.71		232.49	--		
	9/15/2014	247.2		15.95		231.25	--		
	12/29/2014	247.2		12.36		234.84	--		
	3/24/2015	247.2		4.21		242.99	--		
	6/23/2015	247.2		13.27		233.93	--		
	9/21/2015	247.2		16.74		230.46	--		
	12/28/2015	247.2		13.96		233.24	--		
	3/23/2016	247.2		14.42		232.78	--		
	6/22/2016	247.2		12.07		235.13	--		
MW-02	9/26/2016	247.2		6.18		241.02	--		0
	7/14/2009	247.55	17.18	17.19	0.01	230.37	--		
	7/22/2009	247.55	17.33	17.43	0.1	230.21	--		
	8/3/2009	247.55		15.38		232.17	--		
	8/18/2009	247.55		17.37		230.18	--		
	9/3/2009	247.55	17.23	17.32	0.09	230.31	PP	0.026	
	9/18/2009	247.55	17.76	17.93	0.17	229.77	PP	0.066	
	10/6/2009	247.55	17.98	18.32	0.34	229.53	PP	0.251	
	10/19/2009	247.55	16.15	16.44	0.29	231.36	PS		
	11/5/2009	247.55	16.07	16.08	0.01	231.48	PS		
	11/12/2009	247.55		16.55		231	PS		
	12/4/2009	247.55		15.36		232.19	--		
	12/11/2009	247.55		12.94		234.61	--		
	12/16/2009	247.55		14.25		233.3	--		
	1/20/2010	247.55		14.86		232.69	--		
	2/16/2010	247.55		13.3		234.25	--		
	3/1/2010	247.55		12.7		234.85	--		
	3/8/2010	247.55	14.37	14.38	0.01	233.18	--		
	4/5/2010	247.55		14.47		233.08	--		
	5/3/2010	247.55		15.35		232.2	--		
	5/26/2010	247.55		13.6		233.95	--		
	6/15/2010	247.55	16.81	16.82	0.01	230.74	--		
	6/18/2010	247.55	16.8	16.81	0.01	230.75	AS	0.003	
	7/30/2010	247.55		18.21		229.34	--		
	9/2/2010	247.55	19.05	19.11	0.06	228.49	AS	0.02	
	9/21/2010	247.55	18.85	19.42	0.57	228.63	PP	0.106	
	10/13/2010	247.55	17.65	17.72	0.07	229.89	AS	0.02	
	11/4/2010	247.55		17.63		229.92	--		
	12/10/2010	247.55		16.69		230.86	--		
	1/28/2011	247.55		18.75		228.8	--		
	2/14/2011	247.55	16.71	16.76	0.05	230.83	--		
	3/4/2011	247.55	16.45	16.5	0.05	231.09	--		
	4/13/2011	247.55	12.6	12.62	0.02	234.95	AS	0.007	
	4/29/2011	247.55	11.32	11.38	0.06	236.22	--		
	5/13/2011	247.55		15.61		231.94	AS	0.013	
	5/27/2011	247.55		14.38		233.17	--		
	6/15/2011	247.55		16.86		230.69	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	7/14/2011	247.55		17.51		230.04	--		
	8/8/2011	247.55		17.62		229.93	--		
	9/14/2011	247.55		13.82		233.73	--		
	10/25/2011	247.55		14.37		233.18	--		
	12/15/2011	247.55					--		
	1/6/2012	247.55		15.43		232.12	--		
	1/27/2012	247.55		14.95		232.6	--		
	2/28/2012	247.55		16.5		231.05	--		
	3/21/2012	247.55		15.84		231.71	--		
	5/25/2012	247.55		12.82		234.73	--		
	6/13/2012	247.55		12.7		234.85	--		
	7/18/2012	247.55		16.88		230.67	--		
	8/16/2012	247.55		17.03		230.52	--		
	9/24/2012	247.55		15.26		232.29	--		
	12/14/2012	247.55		16.23		231.32	--		
	1/11/2013	247.55		15.23		232.32	--		
	5/20/2013	247.55	15.32	15.33		232.22	--		
	8/2/2013	247.55		16.15		231.4	--		
	9/4/2013	247.55	16.91	16.94	0.03	230.64	AS	0.013	
	9/12/2013	247.55		17.02		230.53	--		
	9/16/2013	247.55	17.27	17.29	0.02	230.28	AS		
	10/30/2013	247.55		16.25		231.3	AS		
	11/21/2013	247.55		17.07		230.48	AS		
	12/19/2013	247.55		12.1		235.45	AS		
	12/23/2013	247.55		7.94		239.61	--		
	1/15/2014	247.55		10.72		236.83	--		
	2/18/2014	247.55		14.15		233.4	--		
	3/10/2014	247.55		14.26		233.29	--		
	4/28/2014	247.55		14.85		232.7	--		
	6/5/2014	247.55		14.41		233.14	--		
	6/9/2014	247.55		14.88		232.67	--		
	6/25/2014	247.55		13.88		233.67	--		
	7/17/2014	247.55		9.75		237.8	--		
	8/7/2014	247.55		15.92		231.63	--		
	9/15/2014	247.55		16.22		231.33	--		
	9/25/2014	247.55		16.81		230.74	--		
	10/30/2014	247.55		16.49		231.06	--		
	11/25/2014	247.55		17.18		230.37	--		
	12/29/2014	247.55		13.82		233.73	--		
	1/16/2015	247.55		14.99		232.56	--		
	2/13/2015	247.55		16.77		230.78	--		
	3/24/2015	247.55		13.03		234.52	--		
	4/15/2015	247.55		15.64		231.91	--		
	5/15/2015	247.55		15.83		231.72	--		
	6/23/2015	247.55		9.59		237.96	--		
	7/30/2015	247.55		15.95		231.6	--		
	8/24/2015	247.55		13.38		234.17	--		
	9/21/2015	247.55	17.09	17.1	0.01	230.45	AS	0.007	
	10/27/2015	247.55		16.29		231.26	--		
	11/23/2015	247.55		13.69		233.86	--		
	12/28/2015	247.55		9.71		237.84	--		
	2/5/2016	247.55					--		
	2/18/2016	247.55		14.97		232.58	--		
	3/23/2016	247.55		14.32		233.23	--		
	4/27/2016	247.55		15.92		231.63	AS		
	5/25/2016	247.55		9.79		237.76	AS		
	6/22/2016	247.55		6.98		240.57	--		
	7/28/2016	247.55		15.93		231.62	AS		
	8/23/2016	247.55		12.29		235.26	--		
	9/26/2016	247.55		16.71		230.84	--		0.532
MW-03	6/15/2010	248.38		16.3		232.08	--		
	9/21/2010	248.38		18.76		229.62	--		
	12/10/2010	248.38		16.74		231.64	--		
	2/14/2011	248.38		17.21		231.17	--		
	5/26/2011	248.38		14.57		233.81	--		
	8/8/2011	248.38		17.72		230.66	--		
	12/15/2011	248.38					--		
	3/21/2012	248.38		16.06		232.32	--		
	6/13/2012	248.38		15.71		232.67	--		
	9/24/2012	248.38		16.63		231.75	--		
	1/11/2013	248.38		16.02		232.36	--		
	3/15/2013	248.38		14.93		233.45	--		
	5/20/2013	248.38		16.08		232.3	--		
	9/16/2013	248.38		17.45		230.93	--		
	12/23/2013	248.38		15.41		232.97	--		
	3/10/2014	248.38		15.23		233.15	--		
	6/9/2014	248.38		15.51		232.87	--		
	9/15/2014	248.38		16.85		231.53	--		
	12/29/2014	248.38		16.21		232.17	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/24/2015	248.38		17.41		230.97	--		
	6/24/2015	248.38		15.14		233.24	--		
	9/21/2015	248.38		17.64		230.74	--		
	12/28/2015	248.38		15.79		232.59	--		
	3/23/2016	248.38		15.28		233.1	--		
	6/22/2016	248.38		15.25		233.13	--		
	9/26/2016	248.38		16.89		231.49	--		0
MW-04R	7/14/2009	244.68		13.5		231.18	--		
	7/22/2009	244.68		13.7		230.98	--		
	8/3/2009	244.68	12.78	13.01	0.23	231.87	--		
	8/18/2009	244.68	14.18	14.25	0.07	230.49	PS	0.145	
	9/3/2009	244.68	13.6	13.97	0.37	231.03	PS	0.066	
	9/18/2009	244.68	14.14	14.23	0.09	230.53	PS	0.568	
	10/6/2009	244.68	14.32	14.61	0.29	230.32	PS	0.092	
	10/19/2009	244.68	13.39	13.42	0.03	231.29	PS	0.713	
	11/5/2009	244.68	12.76	12.8	0.04	231.91	PS	0.174	
	11/12/2009	244.68	12.7	12.78	0.08	231.97	PS	0.066	
	12/4/2009	244.68	12.29	12.32	0.03	232.39	PS	0.264	
	12/11/2009	244.68		11.04		233.64	PS	0.026	
	12/16/2009	244.68	11.81	11.82	0.01	232.87	--		
	1/20/2010	244.68		11.28		233.4	--		
	2/16/2010	244.68		12		232.68	--		
	3/1/2010	244.68		8.54		236.14	--		
	4/5/2010	244.68		10.21		234.47	--		
	5/3/2010	244.68		11.6		233.08	--		
	5/26/2010	244.68		9.92		234.76	--		
	6/15/2010	244.68		13.15		231.53	--		
	7/30/2010	244.68		14.57		230.11	--		
	9/2/2010	244.68	15.29	15.35	0.06	229.38	AS	0.013	
	9/21/2010	244.68	15.29	15.74	0.45	229.33	PP	0.092	
	10/13/2010	244.68	13.98	14.19	0.21	230.67	AS	0.04	
	11/4/2010	244.68	13.65	13.72	0.07	231.02	AS	0.02	
	12/10/2010	244.68	13.16	13.24	0.08	231.51	--		
	1/28/2011	244.68		14.65		230.03	--		
	2/14/2011	244.68	12.93	13.13	0.2	231.72	--		
	3/4/2011	244.68	11.74	12.03	0.29	232.9	--		
	4/13/2011	244.68		8.4		236.28	--		
	4/29/2011	244.68	8.15	8.16	0.01	236.53	--		
	5/26/2011	244.68		13.63		231.05	--		
	6/15/2011	244.68	12.86	12.94	0.08	231.81	--		
	7/14/2011	244.68		13.35		231.33	--		
	8/8/2011	244.68	14.5	14.51	0.01	230.18	--		
	9/14/2011	244.68		10.94		233.74	--		
	10/25/2011	244.68		11.19		233.49	--		
	12/15/2011	244.68		10.71		233.97	--		
	1/27/2012	244.68		10.41		234.27	--		
	2/28/2012	244.68		13.25		231.43	--		
	3/21/2012	244.68		12.59		232.09	--		
	5/25/2012	244.68		7.36		237.32	--		
	6/13/2012	244.68		7.54		237.14	--		
	7/18/2012	244.68		13.71		230.97	--		
	8/16/2012	244.68		13.85		230.83	--		
	9/24/2012	244.68		12.37		232.31	--		
	12/14/2012	244.68		13.04		231.64	--		
	1/11/2013	244.68		12.25		232.43	--		
	5/20/2013	244.68		12.35		232.33	--		
	9/16/2013	244.68		14.18		230.5	--		
	12/23/2013	244.68		6.57		238.11	--		
	3/10/2014	244.68		9.84		234.84	--		
	6/9/2014	244.68		11.64		233.04	--		
	9/15/2014	244.68		13.26		231.42	--		
	12/29/2014	244.68		7.43		237.25	--		
	3/24/2015	244.68		10.27		234.41	--		
	6/23/2015	244.68		5.5		239.18	--		
	9/21/2015	244.68		14.14		230.54	--		
	12/28/2015	244.68		5.45		239.23	--		
	3/23/2016	244.68		10.96		233.72	--		
	6/22/2016	244.68		4.7		239.98	--		
	9/26/2016	244.68		13.55		231.13	--		2.279
MW-05	6/15/2010	245.37		13.85		231.52	--		
	9/21/2010	245.37		15.93		229.44	--		
	12/10/2010	245.37		13.97		231.4	--		
	2/14/2011	245.37		14.22		231.15	--		
	5/27/2011	245.37		11.98		233.39	--		
	8/8/2011	245.37		15.12		230.25	--		
	12/15/2011	245.37		12.33		233.04	--		
	3/20/2012	245.37		13.38		231.99	--		
	6/13/2012	245.37		13.1		232.27	--		
	9/24/2012	245.37		13.84		231.53	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	1/11/2013	245.37		13.12		232.25	--		
	5/20/2013	245.37		14.2		231.17	--		
	9/16/2013	245.37		14.87		230.5	--		
	12/23/2013	245.37		12.34		233.03	--		
	3/10/2014	245.37		12.1		233.27	--		
	6/9/2014	245.37		12.6		232.77	--		
	9/15/2014	245.37		13.64		231.73	--		
	12/29/2014	245.37		12.94		232.43	--		
	3/24/2015	245.37		12.16		233.21	--		
	6/23/2015	245.37		11.58		233.79	--		
	9/21/2015	245.37		14.86		230.51	--		
	12/28/2015	245.37		12.29		233.08	--		
	3/23/2016	245.37		12.35		233.02	--		
	6/22/2016	245.37		12.34		233.03	--		
	9/26/2016	245.37		14.21		231.16	--		0
MW-06R	6/15/2010	233.63		6.55		227.08	--		
	9/21/2010	233.63		8.98		224.65	--		
	12/10/2010	233.63		6.42		227.21	--		
	2/14/2011	233.63		6.19		227.44	--		
	5/26/2011	233.63		4.68		228.95	--		
	8/8/2011	233.63		8.34		225.29	--		
	12/15/2011	233.63		4.53		229.1	--		
	3/21/2012	233.63		5		228.63	--		
	6/13/2012	233.63		4.89		228.74	--		
	9/24/2012	233.63		5.95		227.68	--		
	1/11/2013	233.63		4.98		228.65	--		
	5/20/2013	233.63		5.3		228.33	--		
	9/16/2013	233.63		7.8		225.83	--		
	12/23/2013	233.63		4.55		229.08	--		
	3/10/2014	233.63		4.31		229.32	--		
	6/9/2014	233.63		4.59		229.04	--		
	9/15/2014	233.63		8.17		225.46	--		
	12/29/2014	233.63		4.89		228.74	--		
	3/24/2015	233.63		4.27		229.36	--		
	6/23/2015	244.98		4.11		240.87	--		
	9/21/2015	244.98		7.53		237.45	--		
	12/28/2015	244.98		4.23		240.75	--		
	3/23/2016	244.98		4.24		240.74	--		
	6/22/2016	244.98		4.4		240.58	--		
	9/26/2016	244.98		6.65		238.33	--		0
MW-08	6/15/2010	235.51		12.98		222.53	--		
	9/21/2010	235.51		15.74		219.77	--		
	12/10/2010	235.51		13.96		221.55	--		
	2/14/2011	235.51		13.28		222.23	--		
	5/26/2011	235.51		9.94		225.57	--		
	8/8/2011	235.51		15.11		220.4	--		
	12/15/2011	235.51		10.11		225.4	--		
	3/20/2012	235.51		11.13		224.38	--		
	6/13/2012	235.51		11.95		223.56	--		
	9/24/2012	235.51		14.68		220.83	--		
	1/11/2013	235.51		11.23		224.28	--		
	5/20/2013	235.51		11.29		224.22	--		
	9/16/2013	235.51		14.91		220.6	--		
	12/23/2013	235.51		9.3		226.21	--		
	3/10/2014	235.51		10.48		225.03	--		
	6/9/2014	235.51		11.48		224.03	--		
	9/15/2014	235.51		14.27		221.24	--		
	12/29/2014	235.51		12.26		223.25	--		
	3/24/2015	235.51		10.27		225.24	--		
	6/23/2015	235.51		11.07		224.44	--		
	9/21/2015	235.51		15.27		220.24	--		
	12/28/2015	235.51		11		224.51	--		
	3/23/2016	235.51		10.69		224.82	--		
	6/22/2016	235.51		11.72		223.79	--		
	9/26/2016	235.51		13.99		221.52	--		0
MW-09	6/15/2010	237.54		13.45		224.09	--		
	9/21/2010	237.54		15.11		222.43	--		
	12/10/2010	237.54		13.41		224.13	--		
	2/14/2011	237.54		13.03		224.51	--		
	5/26/2011	237.54		11.92		225.62	--		
	8/8/2011	237.54		14.53		223.01	--		
	12/15/2011	237.54		11.84		225.7	--		
	3/20/2012	237.54		12.18		225.36	--		
	6/13/2012	237.54		12.2		225.34	--		
	9/24/2012	237.54		12.92		224.62	--		
	1/11/2013	237.54		12.19		225.35	--		
	5/20/2013	237.54		12.53		225.01	--		
	9/16/2013	237.54		14.28		223.26	--		
	12/23/2013	237.54		11.92		225.62	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/10/2014	237.54		11.87		225.67	--		
	6/9/2014	237.54		12.35		225.19	--		
	9/15/2014	237.54		14.03		223.51	--		
	12/29/2014	237.54		12.6		224.94	--		
	3/24/2015	237.54		12.1		225.44	--		
	6/23/2015	237.54		12.07		225.47	--		
	9/21/2015	237.54		14.49		223.05	--		
	12/28/2015	237.54		12.03		225.51	--		
	3/23/2016	237.54		12.07		225.47	--		
	6/22/2016	237.54		12.41		225.13	--		
	9/26/2016	237.54		13.7		223.84	--		0
MW-20	6/15/2010	236.27		8.68		227.59	--		
	9/21/2010	236.27		9.99		226.28	--		
	12/10/2010	236.27		8.3		227.97	--		
	2/14/2011	236.27		8.4		227.87	--		
	5/26/2011	236.27		6.33		229.94	--		
	8/8/2011	236.27		9.62		226.65	--		
	12/15/2011	236.27		6.64		229.63	--		
	3/20/2012	236.27		7.34		228.93	--		
	6/13/2012	236.27		7.23		229.04	--		
	9/24/2012	236.27		8.59		227.68	--		
	1/11/2013	236.27		7.52		228.75	--		
	5/20/2013	236.27		8.04		228.23	--		
	9/16/2013	236.27		9.38		226.89	--		
	12/23/2013	236.27		6.89		229.38	--		
	3/10/2014	236.27		6.88		229.39	--		
	6/9/2014	236.27		7.16		229.11	--		
	9/15/2014	236.27		9.03		227.24	--		
	12/29/2014	236.27		7.27		229	--		
	3/24/2015	236.27		6.64		229.63	--		
	6/23/2015	236.27		6.44		229.83	--		
	9/21/2015	236.27		9.5		226.77	--		
	12/28/2015	236.27		6.94		229.33	--		
	3/23/2016	236.27		6.82		229.45	--		
	6/22/2016	236.27		7.13		229.14	--		
	9/26/2016	236.27		9.17		227.1	--		0
MW-21	6/15/2010	244.26		12.38		231.88	--		
	9/21/2010	244.26		12.73		231.53	--		
	12/10/2010	244.26		11.92		232.34	--		
	2/14/2011	244.26		12.7		231.56	--		
	5/27/2011	244.26		11.62		232.64	--		
	8/8/2011	244.26		12.68		231.58	--		
	12/15/2011	244.26		11.81		232.45	--		
	3/21/2012	244.26		12.44		231.82	--		
	6/13/2012	244.26		11.98		232.28	--		
	9/24/2012	244.26		11.68		232.58	--		
	1/11/2013	244.26		12.33		231.93	--		
	5/20/2013	244.26		12.43		231.83	--		
	9/16/2013	244.26		12.82		231.44	--		
	3/10/2014	244.26		12.11		232.15	--		
	6/9/2014	244.26		11.94		232.32	--		
	9/15/2014	244.26		12.43		231.83	--		
	12/29/2014	244.26		11.95		232.31	--		
	3/24/2015	244.26		11.84		232.42	--		
	6/23/2015	244.26		11.31		232.95	--		
	9/21/2015	244.26		12.59		231.67	--		
	12/28/2015	244.26		11.34		232.92	--		
	3/23/2016	244.26		12.32		231.94	--		
	6/22/2016	244.26					--		
	9/26/2016	244.26		12.58		231.68	--		0
MW-22	6/15/2010	245.65		13.52		232.13	--		
	9/21/2010	245.65		15.61		230.04	--		
	12/10/2010	245.65		13.72		231.93	--		
	2/14/2011	245.65		13.95		231.7	--		
	5/26/2011	245.65		11.25		234.4	--		
	8/8/2011	245.65		14.7		230.95	--		
	12/15/2011	245.65		11.45		234.2	--		
	3/21/2012	245.65		13.07		232.58	--		
	6/13/2012	245.65		12.78		232.87	--		
	9/24/2012	245.65		13.52		232.13	--		
	1/11/2013	245.65		12.84		232.81	--		
	5/20/2013	245.65		12.91		232.74	--		
	9/16/2013	245.65		14.42		231.23	--		
	12/23/2013	245.65		12.1		233.55	--		
	3/10/2014	245.65		11.6		234.05	--		
	6/9/2014	245.65		12.2		233.45	--		
	9/15/2014	245.65		13.65		232	--		
	12/29/2014	245.65		12.73		232.92	--		
	3/24/2015	245.65		11.77		233.88	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/23/2015	245.65					--		
	9/21/2015	245.65		14.45		231.2	--		
	12/28/2015	245.65		11.98		233.67	--		
	3/23/2016	245.65		11.94		233.71	--		
	6/22/2016	245.65		12.15		233.5	--		
	9/26/2016	245.65		13.85		231.8	--		0
MW-23	7/14/2009	244.57		13.2		231.37	--		
	7/22/2009	244.57	13.49	13.5	0.01	231.08	--		
	8/18/2009	244.57	13.51	13.53	0.02	231.06	PP	0.026	
	9/18/2009	244.57		13.75		230.82	--		
	10/6/2009	244.57		13.78		230.79	--		
	10/19/2009	244.57		10.83		233.74	--		
	11/5/2009	244.57	12.28	12.29	0.01	232.29	--		
	11/12/2009	244.57		12.83		231.74	--		
	12/4/2009	244.57		9.48		235.09	--		
	1/20/2010	244.57		4.41		240.16	--		
	2/16/2010	244.57		11.04		233.53	--		
	4/5/2010	244.57		10.81		233.76	--		
	5/3/2010	244.57		11.45		233.12	--		
	5/26/2010	244.57		9.62		234.95	--		
	6/15/2010	244.57		12.95		231.62	--		
	7/30/2010	244.57		13.77		230.8	--		
	9/2/2010	244.57		13.19		231.38	--		
	9/21/2010	244.57		13.75		230.82	--		
	10/13/2010	244.57		13.75		230.82	--		
	11/4/2010	244.57		13.57		231	--		
	12/10/2010	244.57		13.07		231.5	--		
	1/28/2011	244.57		13.77		230.8	--		
	2/14/2011	244.57		12.1		232.47	--		
	3/4/2011	244.57		11.14		233.43	--		
	4/13/2011	244.57					--		
	5/26/2011	244.57		12.84		231.73	--		
	6/15/2011	244.57		12.65		231.92	--		
	7/14/2011	244.57		13.03		231.54	--		
	8/8/2011	244.57		13.74		230.83	--		
	9/14/2011	244.57		12.51		232.06	--		
	10/25/2011	244.57		11.05		233.52	--		
	12/15/2011	244.57		10.42		234.15	--		
	1/27/2012	244.57		8.52		236.05	--		
	2/28/2012	244.57		12.89		231.68	--		
	3/21/2012	244.57		12.03		232.54	--		
	5/25/2012	244.57		2.68		241.89	--		
	6/13/2012	244.57		1.69		242.88	--		
	7/18/2012	244.57		12.93		231.64	--		
	8/1/2012	244.57		12.78		231.79	--		
	9/24/2012	244.57		11.01		233.56	--		
	11/19/2012	244.57		10.31		234.26	--		
	12/14/2012	244.57		11.88		232.69	--		
	1/7/2013	244.57		10.52		234.05	--		
	1/11/2013	244.57		11.45		233.12	--		
	5/20/2013	244.57		11.24		233.33	--		
	5/24/2013	244.57		1.39		243.18	--		
	9/16/2013	244.57		13.4		231.17	--		
	3/10/2014	244.57		6.71		237.86	--		
	6/9/2014	244.57		11.02		233.55	--		
	9/15/2014	244.57		12.31		232.26	--		
	12/29/2014	244.57		2.4		242.17	--		
	3/24/2015	244.57		3.47		241.1	--		
	6/23/2015	244.57		1.49		243.08	--		
	9/21/2015	244.57		12.5		232.07	--		
	12/28/2015	244.57		1.49		243.08	--		
	3/23/2016	244.57		7.68		236.89	--		
	6/22/2016	244.57		0.5		244.07	--		
	9/26/2016	244.57		13.12		231.45	--		0.026
MW-24	6/15/2010	244.5		11.85		232.65	--		
	9/21/2010	244.5		11.02		233.48	--		
	12/10/2010	244.5		8.52		235.98	--		
	2/14/2011	244.5		8.2		236.3	--		
	5/26/2011	244.5					--		
	8/8/2011	244.5		12.34		232.16	--		
	12/15/2011	244.5					--		
	3/20/2012	244.5		11.63		232.87	--		
	6/13/2012	244.5					--		
	9/24/2012	244.5		12.98		231.52	--		
	1/11/2013	244.5		11.23		233.27	--		
	5/20/2013	244.5		11.76		232.74	--		
	9/16/2013	244.5		12.62		231.88	--		
	3/10/2014	244.5		9.06		235.44	--		
	6/9/2014	244.5		9.35		235.15	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/15/2014	244.5		12.17		232.33	--		
	12/29/2014	244.5		10.12		234.38	--		
	3/24/2015	244.5		8.78		235.72	--		
	6/23/2015	244.5					--		
	9/21/2015	244.5		12.56		231.94	--		
	12/28/2015	244.5		10.01		234.49	--		
	3/23/2016	244.5		9.03		235.47	--		
	6/22/2016	244.5					--		
	9/26/2016	244.5		11.97		232.53	--		0
MW-25	6/15/2010	245.36		13.55		231.81	--		
	9/21/2010	245.36		15.85		229.51	--		
	12/10/2010	245.36		14.04		231.32	--		
	2/14/2011	245.36		14.63		230.73	--		
	5/26/2011	245.36		12.19		233.17	--		
	8/8/2011	245.36		14.83		230.53	--		
	12/15/2011	245.36		12.54		232.82	--		
	3/21/2012	245.36		13.45		231.91	--		
	6/13/2012	245.36		13.15		232.21	--		
	9/24/2012	245.36		13.98		231.38	--		
	1/11/2013	245.36		13.51		231.85	--		
	5/20/2013	245.36		13.56		231.8	--		
	9/16/2013	245.36		14.63		230.73	--		
	12/23/2013	245.36		13.14		232.22	--		
	3/10/2014	245.36		12.77		232.59	--		
	6/9/2014	245.36		12.85		232.51	--		
	9/15/2014	245.36		14.17		231.19	--		
	12/29/2014	245.36		13.65		231.71	--		
	3/24/2015	245.36		13		232.36	--		
	6/23/2015	245.36		10.82		234.54	--		
	9/21/2015	245.36		15.3		230.06	--		
	12/28/2015	245.36		13.44		231.92	--		
	3/23/2016	245.36		12.86		232.5	--		
	6/22/2016	245.36		13.01		232.35	--		
	9/26/2016	245.36		14.13		231.23	--		0
MW-26	7/22/2009	244.67	13.88	13.89	0.01	230.79	--		
	9/3/2009	244.67	13.92	14.06	0.14	230.73	PP	0.04	
	9/18/2009	244.67	14.35	14.5	0.15	230.3	PP	0.03	
	10/6/2009	244.67	14.61	14.67	0.06	230.05	AS		
	10/19/2009	244.67	13.83	14.08	0.25	230.81	AS	0.106	
	11/5/2009	244.67		12.99		231.68	AS	0.007	
	12/4/2009	244.67		13.08		231.59	--		
	1/20/2010	244.67		12.39		232.28	--		
	4/5/2010	244.67		11.6		233.07	--		
	5/3/2010	244.67		11.95		232.72	--		
	5/26/2010	244.67	11.59	11.75	0.16	233.06	AS	0.066	
	6/15/2010	244.67		13.6		231.07	--		
	7/30/2010	244.67	14.95	14.97	0.02	229.72	AS	0.003	
	9/2/2010	244.67	15.77	16.01	0.24	228.87	PP	0.066	
	9/21/2010	244.67	15.58	16.03	0.45	229.03	PP	0.079	
	10/13/2010	244.67	14.46	14.48	0.02	230.21	AS	0.264	
	11/4/2010	244.67		14.33		230.34	--		
	11/24/2010	244.67		14.16		230.51	AS	0.04	
	12/10/2010	244.67		13.78		230.89	--		
	1/28/2011	244.67	15.15	15.16	0.01	229.52	AS	0.003	
	2/14/2011	244.67	13.75	13.96	0.21	230.89	--		
	3/4/2011	244.67	14.46	14.66	0.2	230.18	--		
	4/13/2011	244.67	12.11	12.36	0.25	232.53	PP	0.053	
	4/20/2011	244.67	10.55	10.82	0.27	234.08	--		
	4/29/2011	244.67		11.29		233.38	AS	0.079	
	5/13/2011	244.67		12.42		232.25	AS	0.053	
	5/26/2011	244.67		13.23		231.44	--		
	6/15/2011	244.67		13.14		231.53	AS	0.053	
	7/14/2011	244.67	13.98	13.99	0.01	230.69	AS	0.026	
	8/8/2011	244.67	14.73	14.84	0.11	229.93	--		
	9/14/2011	244.67	13.3	13.5	0.2	231.34	AS	0.132	
	10/25/2011	244.67		12.51		232.16	--		
	12/15/2011	244.67		10.43		234.24	--		
	1/6/2012	244.67	12.5	12.51	0.01	232.17	AS	0.066	
	1/27/2012	244.67		12.59		232.08	--		
	2/7/2012	244.67		12.99		231.68	AS	0.079	
	2/28/2012	244.67		13.55		231.12	--		
	3/21/2012	244.67		13.08		231.59	--		
	4/27/2012	244.67	13.74	13.78	0.04	230.92	AS	0.079	
	5/25/2012	244.67		12.84		231.83	AS	0.013	
	6/13/2012	244.67	12.63	12.64	0.01	232.04	AS		
	7/18/2012	244.67	14.1	14.22	0.12	230.55	AS	0.026	
	8/16/2012	244.67	14.25	14.4	0.15	230.4	AS	0.04	
	9/24/2012	244.67	13.57	13.63	0.06	231.09	AS		
	10/8/2012	244.67	13.42	13.48	0.06	231.24	AS	0.159	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	11/19/2012	244.67		12.11		232.56	AS	0.04	
	12/14/2012	244.67		13.53		231.14	AS	0.053	
	1/7/2013	244.67		12.77		231.9	AS	0.026	
	1/11/2013	244.67		12.79		231.88	--		
	3/1/2013	244.67	12.18	12.19	0.01	232.49	AS	0.145	
	4/26/2013	244.67	13.43	13.47	0.04	231.23	AS	0.119	
	5/13/2013	244.67		12.52		232.15	AS	0.026	
	5/20/2013	244.67		12.9		231.77	--		
	5/24/2013	244.67		12.35		232.32	AS	0.007	
	6/10/2013	244.67		11.87		232.8	AS	0.092	
	8/2/2013	244.67		13.65		231.02	AS	0.053	
	9/4/2013	244.67	14.1	14.26	0.16	230.55	AS	0.04	
	9/16/2013	244.67	14.45	14.63	0.18	230.2	AS		
	10/30/2013	244.67	13.3	13.43	0	231.24	AS	0.099	
	11/21/2013	244.67	14.12	14.15	0	230.52	AS	0.053	
	12/19/2013	244.67		12.03		232.64	AS	0.073	
	12/23/2013	244.67		12.11		232.56	--		
	1/15/2014	244.67		10.69		233.98	AS		
	2/18/2014	244.67	8.02	8.04	0.02	236.65	AS	0.013	
	3/10/2014	244.67		11.96		232.71	--		
	3/11/2014	244.67		11.98		232.69	AS	0.04	
	4/28/2014	244.67	12.42	12.46	0.04	232.24	AS	0.106	
	6/5/2014	244.67	11.92	11.96	0.04	232.74	AS	0.092	
	6/9/2014	244.67		12.2		232.47	--		
	6/25/2014	244.67		11.6	11.6	243.16	AS	0.053	
	7/17/2014	244.67	11.56	11.57	0.01	233.11	AS	0.066	
	8/7/2014	244.67	13.24	13.26	0.02	231.43	AS	0.053	
	9/15/2014	244.67		13.8	0.11	230.97	--		
	9/25/2014	244.67	14.13	14.15	0.02	230.54	AS	0.013	
	10/30/2014	244.67	13.86	14.05	0.19	230.79	AS	0	
	11/25/2014	244.67	14.32	14.62	0.3	230.31	AS	0.053	
	12/23/2014	244.67	13.12	13.14	0.02	231.55	AS	0.092	
	12/29/2014	244.67		12.63		232.04	--		
	1/16/2015	244.67		12.55		232.12	--		
	2/13/2015	244.67		13.25		231.42	--		
	3/24/2015	244.67		11.8		232.87	AS	0.066	
	4/15/2015	244.67		12.92		231.75	AS	0.0396	
	5/15/2015	244.67		13.27		231.4	AS	0.0528	
	6/23/2015	244.67	11.5	11.51	0.01	233.16	AS	0.1453	
	7/30/2015	244.67		13.21		231.46	AS	0.079	
	8/24/2015	244.67	15.54	15.66	0.12	229.01	--		
	9/21/2015	244.67	14.52	14.67	0.15	230	AS	0.013	
	10/27/2015	244.67	13.48	13.72	0.24	230.95	AS	0.066	
	11/23/2015	244.67		13.1		231.57	AS	0.0026	
	12/28/2015	244.67	12.05	12.16	0.11	232.51	AS	0.1387	
	2/5/2016	244.67					--		
	2/18/2016	244.67	10.68	10.69	0.01	233.98	AS	0.0991	
	3/23/2016	244.67		12.05	0	232.62	AS	0.066	
	4/27/2016	244.67	13.22	13.24	0.02	231.43	AS	0.0528	
	5/25/2016	244.67		11.33		233.34	AS	0.066	
	6/22/2016	244.67		12.18		232.49	AS	0.0528	
	7/28/2016	244.67	13.38	13.39	0.01	231.28	AS	0.0528	
	8/23/2016	244.67		11.75		232.92	AS	0.066	
	9/26/2016	244.67	13.82	13.91	0.09	230.76	AS	0.033	4.0605
MW-27	6/15/2010	244.29		7.5		236.79	--		
	9/21/2010	244.29		12.71		231.58	--		
	12/10/2010	244.29		7.39		236.9	--		
	2/14/2011	244.29		7.36		236.93	--		
	5/26/2011	244.29		7.32		236.97	--		
	8/8/2011	244.29					--		
	12/15/2011	244.29					--		
	3/21/2012	244.29		7.5		236.79	--		
	6/13/2012	244.29		7.15		237.14	--		
	9/24/2012	244.29		7.45		236.84	--		
	1/11/2013	244.29		7.46		236.83	--		
	5/20/2013	244.29		7.7		236.59	--		
	9/16/2013	244.29		9.24		235.05	--		
	3/10/2014	244.29		7.55		236.74	--		
	6/9/2014	244.29		7.49		236.8	--		
	9/15/2014	244.29		7.76		236.53	--		
	12/29/2014	244.29		7.53		236.76	--		
	3/24/2015	244.29		7.37		236.92	--		
	6/23/2015	244.29		8.51		235.78	--		
	9/21/2015	244.29		10.51		233.78	--		
	12/28/2015	244.29		7.22		237.07	--		
	3/23/2016	244.29		7.43		236.86	--		
	6/22/2016	244.29					--		
	9/26/2016	244.29		7.99		236.3	--		0
MW-28	7/14/2009	244.23	12.97	12.98	0.01	231.26	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	7/22/2009	244.23	13.14	13.2	0.06	231.08	--		
	8/3/2009	244.23		11.71		232.52	--		
	8/18/2009	244.23	13.25	13.32	0.07	230.97	PP	0.053	
	9/3/2009	244.23	12.98	13.05	0.07	231.24	PP	0.013	
	9/18/2009	244.23	13.48	13.57	0.09	230.74	PP	0.026	
	10/6/2009	244.23	13.77	13.8	0.03	230.46	AS		
	10/19/2009	244.23	12.85	12.9	0.05	231.37	AS	0.007	
	11/5/2009	244.23		12.33		231.9	AS	0.001	
	12/4/2009	244.23		11.71		232.52	AS	0.001	
	1/20/2010	244.23		11.48		232.75	--		
	4/5/2010	244.23		10.4		233.83	--		
	5/3/2010	244.23		11.07		233.16	--		
	5/26/2010	244.23		10.22		234.01	--		
	6/15/2010	244.23	12.6	12.61	0.01	231.63	--		
	6/18/2010	244.23	12.61	12.63	0.02	231.62	AS	0.003	
	7/30/2010	244.23		13.94		230.29	--		
	9/2/2010	244.23		14.36		229.87	--		
	9/21/2010	244.23	14.73	14.74	0.01	229.5	AS	0.003	
	10/13/2010	244.23	13.45	13.49	0.04	230.77	AS	0.006	
	12/10/2010	244.23		12.54		231.69	--		
	1/28/2011	244.23		14.35		229.88	--		
	2/14/2011	244.23		12.59		231.64	--		
	3/4/2011	244.23		12.28		231.95	--		
	4/13/2011	244.23		8.27		235.96	--		
	4/29/2011	244.23		9.53		234.7	--		
	5/27/2011	244.23		10.24		233.99	--		
	6/15/2011	244.23		12.32		231.91	--		
	7/14/2011	244.23		12.75		231.48	--		
	8/8/2011	244.23		13.83		230.4	--		
	9/14/2011	244.23	11.35	11.36	0.01	232.88	AS	0.005	
	10/25/2011	244.23	12.74	12.75	0.01	231.49	--		
	12/15/2011	244.23		10.35		233.88	--		
	1/6/2012	244.23		10.78		233.45	--		
	1/27/2012	244.23		10.78		233.45	--		
	2/28/2012	244.23		12.43		231.8	--		
	3/21/2012	244.23		11.5		232.73	--		
	5/25/2012	244.23	9.06	9.09	0.03	235.17	AS	0.013	
	6/13/2012	244.23	10.7	10.71	0.01	233.53	--		
	7/18/2012	244.23		12.43		231.8	--		
	8/16/2012	244.23		12.38		231.85	--		
	9/24/2012	244.23		10.71		233.52	--		
	12/14/2012	244.23		12.03		232.2	--		
	1/11/2013	244.23		10.83		233.4	--		
	5/20/2013	244.23	10.83	10.84		233.39	--		
	6/28/2013	244.23		10.53		233.7	--		
	8/2/2013	244.23		11.96		232.27	--		
	9/4/2013	244.23		12.48		231.75	--		
	9/16/2013	244.23		13.04		231.19	--		
	10/30/2013	244.23	11.96	11.98	0	232.25	AS	0.013	
	11/21/2013	244.23		13.06		231.17	--		
	12/19/2013	244.23		9.09		235.14	--		
	1/15/2014	244.23		8.72		235.51	--		
	3/10/2014	244.23		9.9		234.33	--		
	4/28/2014	244.23		10.02		234.21	--		
	6/5/2014	244.23		9.67		234.56	--		
	6/9/2014	244.23		10.41		233.82	--		
	6/25/2014	244.23		10		234.23	--		
	7/17/2014	244.23		7.85		236.38	--		
	8/7/2014	244.23		11.34		232.89	--		
	9/15/2014	244.23		11.36		232.87	--		
	9/25/2014	244.23					--		
	10/30/2014	244.23		12.39		231.84	--		
	11/25/2014	244.23		12.48		231.75	--		
	12/29/2014	244.23		9.95		234.28	--		
	1/16/2015	244.23		10.87		233.36	--		
	2/13/2015	244.23		11.24		232.99	--		
	3/24/2015	244.23		8.95		235.28	--		
	4/15/2015	244.23		11.34		232.89	--		
	5/15/2015	244.23		11.48		232.75	--		
	6/23/2015	244.23	8.56	8.57	0.01	235.66	AS	0.0066	
	7/30/2015	244.23		11.79		232.44	--		
	8/24/2015	244.23		10.16		234.07	--		
	9/21/2015	244.23		12.72		231.51	AS		
	10/27/2015	244.23		12.1		232.13	--		
	11/23/2015	244.23		10.4		233.83	--		
	12/28/2015	244.23		8.91		235.32	--		
	2/5/2016	244.23					--		
	2/18/2016	244.23		10.77		233.46	--		
	3/23/2016	244.23		9.71		234.52	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/27/2016	244.23		11.65		232.58	--		
	5/25/2016	244.23		8.53		235.7	--		
	6/22/2016	244.23					--		
	7/28/2016	244.23					--		
	8/23/2016	244.23					--		
	9/26/2016	244.23		12.68		231.55	--		0.1506
MW-29	6/15/2010	243.74		13.89		229.85	--		
	9/21/2010	243.74		15.48		228.26	--		
	12/10/2010	243.74		13.81		229.93	--		
	2/14/2011	243.74		14.07		229.67	--		
	5/27/2011	243.74		12.64		231.1	--		
	8/8/2011	243.74		14.63		229.11	--		
	12/15/2011	243.74		12.68		231.06	--		
	3/21/2012	243.74		13.3		230.44	--		
	6/13/2012	243.74		7.15		236.59	--		
	9/24/2012	243.74		13.18		230.56	--		
	1/11/2013	243.74		13.25		230.49	--		
	5/20/2013	243.74		13.37		230.37	--		
	9/16/2013	243.74		14.35		229.39	--		
	3/10/2014	243.74		12.77		230.97	--		
	6/9/2014	243.74		12.88		230.86	--		
	9/15/2014	243.74		13.83		229.91	--		
	12/29/2014	243.74		13.09		230.65	--		
	3/24/2015	243.74		12.76		230.98	--		
	6/23/2015	243.74					--		
	9/22/2015	243.74		14.3		229.44	--		
	3/23/2016	243.74		11.28		232.46	--		
	6/22/2016	243.74					--		
	9/26/2016	243.74		13.98		229.76	--		0
MW-30	7/22/2009	245.46		14.23		231.23	--		
	8/18/2009	245.46		14.28		231.18	--		
	9/18/2009	245.46		14.6		230.86	--		
	10/6/2009	245.46		14.81		230.65	--		
	10/19/2009	245.46		13.22		232.24	--		
	11/5/2009	245.46		12.83		232.63	--		
	12/4/2009	245.46		12.1		233.36	--		
	1/20/2010	245.46		12.41		233.05	--		
	2/16/2010	245.46		11.55		233.91	--		
	4/5/2010	245.46		11.37		234.09	--		
	5/3/2010	245.46		11.94		233.52	--		
	5/26/2010	245.46		10.24		235.22	--		
	6/15/2010	245.46		13.66		231.8	--		
	9/2/2010	245.46		15.49		229.97	--		
	9/21/2010	245.46	15.78	15.79	0.01	229.68	--		
	10/13/2010	245.46		14.19		231.27	--		
	11/4/2010	245.46		14.5		230.96	--		
	12/10/2010	245.46		13.56		231.9	--		
	1/28/2011	245.46		15.19		230.27	--		
	2/14/2011	245.46		12.74		232.72	--		
	3/4/2011	245.46		11.93		233.53	--		
	4/13/2011	245.46		9.42		236.04	--		
	5/27/2011	245.46		10.18		235.28	--		
	6/15/2011	245.46		15.38		230.08	--		
	7/14/2011	245.46		13.43		232.03	--		
	8/8/2011	245.46		14.94		230.52	--		
	9/14/2011	245.46		11.8		233.66	--		
	10/25/2011	245.46		11.39		234.07	--		
	12/15/2011	245.46		11.91		233.55	--		
	1/27/2012	245.46		11.54		233.92	--		
	2/28/2012	245.46		13.79		231.67	--		
	3/20/2012	245.46		13.14		232.32	--		
	5/25/2012	245.46		10.67		234.79	--		
	6/13/2012	245.46		12.22		233.24	--		
	7/18/2012	245.46		14.25		231.21	--		
	9/24/2012	245.46		12.66		232.8	--		
	12/14/2012	245.46		13.7		231.76	--		
	1/11/2013	245.46		12.51		232.95	--		
	5/20/2013	245.46		12.48		232.98	--		
	9/16/2013	245.46		14.74		230.72	--		
	12/23/2013	245.46		10.51		234.95	--		
	3/10/2014	245.46		10.01		235.45	--		
	6/9/2014	245.46		12.04		233.42	--		
	9/15/2014	245.46		13.68		231.78	--		
	12/29/2014	245.46		10.55		234.91	--		
	3/24/2015	245.46		9.87		235.59	--		
	6/23/2015	245.46		10.49		234.97	--		
	9/21/2015	245.46		14.74		230.72	--		
	12/28/2015	245.46		9.81		235.65	--		
	3/23/2016	245.46		11.06		234.4	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/22/2016	245.46		11.64		233.82	--		
	9/26/2016	245.46		14.14		231.32	--		0
MW-31	7/22/2009	244.79		12.81		231.98	--		
	9/18/2009	244.79		11.6		233.19	--		
	10/6/2009	244.79		9.94		234.85	--		
	10/19/2009	244.79		6.44		238.35	--		
	11/5/2009	244.79		7.03		237.76	--		
	12/4/2009	244.79		6.57		238.22	--		
	1/20/2010	244.79		6.33		238.46	--		
	4/5/2010	244.79		7.14		237.65	--		
	5/3/2010	244.79		7.12		237.67	--		
	5/26/2010	244.79		6.79		238	--		
	6/15/2010	244.79		9.64		235.15	--		
	7/30/2010	244.79		11.28		233.51	--		
	9/2/2010	244.79		14.13		230.66	--		
	9/21/2010	244.79		14.35		230.44	--		
	11/4/2010	244.79		7.29		237.5	--		
	12/10/2010	244.79		7.29		237.5	--		
	2/14/2011	244.79		6.84		237.95	--		
	3/4/2011	244.79		6.62		238.17	--		
	4/13/2011	244.79					--		
	5/27/2011	244.79		7.11		237.68	--		
	7/14/2011	244.79		10.36		234.43	--		
	8/8/2011	244.79		13.55		231.24	--		
	12/15/2011	244.79		7.15		237.64	--		
	3/21/2012	244.79		7.76		237.03	--		
	6/13/2012	244.79		7.35		237.44	--		
	9/24/2012	244.79		7.01		237.78	--		
	1/11/2013	244.79		7.3		237.49	--		
	5/20/2013	244.79		7.2		237.59	--		
	9/16/2013	244.79		12.96		231.83	--		
	12/23/2013	244.79		6.42		238.37	--		
	3/10/2014	244.79		7.17		237.62	--		
	6/9/2014	244.79		7.57		237.22	--		
	9/15/2014	244.79		7.7		237.09	--		
	12/29/2014	244.79		6.72		238.07	--		
	3/24/2015	244.79		6.58		238.21	--		
	6/23/2015	244.79		6.73		238.06	--		
	9/21/2015	244.79		13.2		231.59	--		
	12/28/2015	244.79		6.73		238.06	--		
	3/23/2016	244.79		7.14		237.65	--		
	6/22/2016	244.79		6.17		238.62	--		
	9/26/2016	244.79		12.92		231.87	--		0
MW-32	7/14/2009	245.8	13.65	13.9	0.25	232.12	--		
	7/16/2009	245.8	13.54	13.75	0.21	232.23	PP	0.238	
	7/22/2009	245.8	13.85	14.03	0.18	231.93	--		
	8/3/2009	245.8	12.99	13.3	0.31	232.77	--		
	8/18/2009	245.8	13.96	13.98	0.02	231.84	PS	0.317	
	9/3/2009	245.8	13.82	13.86	0.04	231.97	PS	0.132	
	9/18/2009	245.8	14.56	14.65	0.09	231.23	PS	0.159	
	10/6/2009	245.8	14.82	14.84	0.02	230.98	PS	0.291	
	10/19/2009	245.8	13.76	13.78	0.02	232.04	PS	0.159	
	11/5/2009	245.8	13	13.01	0.01	232.8	PS	0.066	
	11/12/2009	245.8		13.17		232.63	PS		
	12/4/2009	245.8	12.93	12.95	0.02	232.87	PS	0.198	
	12/11/2009	245.8		11.74		234.06	PS	0.007	
	12/16/2009	245.8	11.88	11.91	0.03	233.92	PS	0.003	
	12/29/2009	245.8	10.43	10.58	0.1	235.31	PS	0.003	
	1/20/2010	245.8	12.24	12.25	0.01	233.56	PS	0.003	
	2/16/2010	245.8	11.8	11.97	0.17	233.98	--		
	3/1/2010	245.8	9.65	9.97	0.32	236.11	--		
	3/8/2010	245.8	11.27	11.29	0.02	234.53	PS	0.225	
	4/5/2010	245.8	11.3	11.33	0.03	234.5	PS	0.001	
	5/3/2010	245.8	12.07	12.09	0.02	233.73	PS		
	5/26/2010	245.8		11.75		234.05	PS	0.003	
	6/15/2010	245.8					--		
	6/18/2010	245.8	14.23	14.24	0.01	231.57	PS	0.003	
	10/13/2010	245.8					--		
	11/4/2010	245.8					--		
	12/3/2010	245.8	13.42	13.47	0.05	232.37	PS	0.003	
	12/10/2010	245.8	14.09	14.11	0.02	231.71	--		
	12/21/2010	245.8	14.2	14.21	0.01	231.6	PS	0.003	
	1/6/2011	245.8	14.63	14.74	0.11	231.16	PS	0.001	
	1/28/2011	245.8	14.78	14.79	0.01	231.02	PS	0.007	
	2/14/2011	245.8	14.46	14.47	0.01	231.34	--		
	2/18/2011	245.8	14.58	14.6	0.02	231.22	PS	0.396	
	3/4/2011	245.8	14.35	14.36	0.01	231.45	PS	0.053	
	3/22/2011	245.8	12.25	12.27	0.02	233.55	PS	0.005	
	4/13/2011	245.8	12.45	12.46	0.01	233.35	PS	0.005	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/20/2011	245.8	9.76	9.81	0.05	236.03	PS	0.026	
	4/29/2011	245.8	10.9	10.93	0.03	234.9	PS	0.003	
	5/13/2011	245.8	12.33	12.34	0.01	233.47	PS	0.003	
	5/26/2011	245.8	13.31	13.33	0.02	232.49	--		
	6/15/2011	245.8	13.09	13.1	0.01	232.71	PS	0.005	
	7/21/2011	245.8		14.15		231.65	PS	0.026	
	8/8/2011	245.8	14.93	14.95	0.02	230.87	--		
	8/17/2011	245.8	14.95	15	0.05	230.84	PS	0.003	
	8/24/2011	245.8	14.97	15.01	0.04	230.82	PS	0.005	
	9/1/2011	245.8	15.2	15.23	0.03	230.6	PS	0.005	
	9/14/2011	245.8	13.15	13.2	0.05	232.64	PS	0	
	10/6/2011	245.8	12.66	12.7	0.04	233.13	PP	0.003	
	10/25/2011	245.8	12.34	12.35	0.1	233.54	PS	0	
	11/15/2011	245.8		13.63		232.17	PS	0.013	
	12/8/2011	245.8	12.61	12.62	0.01	233.19	PS	0	
	12/15/2011	245.8	11.88	11.93	0.05	233.91	--		
	12/21/2011	245.8	12.89	12.9	0.01	232.91	PS	0.003	
	1/6/2012	245.8	12.8	12.83	0.03	233	PS	0.003	
	1/27/2012	245.8					--		
	2/7/2012	245.8	13.24	13.32	0.08	232.55	PS	0.001	
	2/28/2012	245.8	13.34	13.36	0.02	232.46	PS	0.007	
	3/3/2012	245.8	12.32	12.35	0.03	233.48	PS	0.159	
	3/21/2012	245.8	13.95	13.97	0.02	231.85	--		
	3/27/2012	245.8	13.5	13.54	0.04	232.29	PS	0.013	
	4/13/2012	245.8	14.06	14.07	0.01	231.74	AS	0.132	
	4/27/2012	245.8	13.98	13.99	0.01	231.82	AS	0.106	
	5/25/2012	245.8		12.81		232.99	AS	0.013	
	6/7/2012	245.8		12.43		233.37	AS	0.013	
	6/13/2012	245.8		12.79		233.01	AS		
	6/21/2012	245.8		14.23		231.57	AS	0.001	
	7/18/2012	245.8		14.29		231.51	AS	0.106	
	8/16/2012	245.8	14.59	14.6	0.01	231.21	AS	0.172	
	9/24/2012	245.8	13.54	13.59	0.05	232.25	AS		
	10/8/2012	245.8	13.56	13.59	0.03	232.24	AS	0.132	
	11/19/2012	245.8	12.14	12.15	0.01	233.66	AS	0.145	
	12/14/2012	245.8		13.55		232.25	AS	0.066	
	1/7/2013	245.8		12.78		233.02	AS	0.04	
	1/11/2013	245.8		12.6		233.2	--		
	3/15/2013	245.8		11.38		234.42	AS	0.026	
	4/26/2013	245.8		13.46		232.34	AS		
	5/13/2013	245.8		12.65		233.15	AS	0.026	
	5/20/2013	245.8		12.92		232.88	--		
	5/24/2013	245.8		12.53		233.27	AS	0	
	8/2/2013	245.8		13.56		232.24	AS	0	
	9/4/2013	245.8		14.15		231.65	AS	0	
	9/16/2013	245.8		14.46		231.34	AS		
	10/30/2013	245.8		13.69		232.11	AS		
	11/21/2013	245.8		14.34		231.46	AS	0.026	
	12/19/2013	245.8		11.88		233.92	AS	0.079	
	12/23/2013	245.8		12.01		233.79	--		
	1/15/2014	245.8		11.35		234.45	AS	0.003	
	2/18/2014	245.8		11.59		234.21	AS	0.007	
	3/10/2014	245.8		11.62		234.18	--		
	3/11/2014	245.8		11.64		234.16	AS	0.066	
	4/28/2014	245.8	12.42	12.43	0.01	233.38	AS	0.092	
	6/5/2014	245.8		11.76		234.04	AS	0.026	
	6/9/2014	245.8		12.16		233.64	--		
	6/25/2014	245.8		11.36	11.36	244.32	AS	0.092	
	7/17/2014	245.8		11.3		234.5	--		
	8/7/2014	245.8		13.22		232.58	AS	0.013	
	9/15/2014	245.8		13.81		231.99	--		
	9/25/2014	245.8		13.97		231.83	AS	0.007	
	10/30/2014	245.8		13.92		231.88	AS	0.059	
	11/25/2014	245.8		14.52		231.28	AS	0	
	12/23/2014	245.8		12.98		232.82	AS	0.033	
	12/29/2014	245.8		12.61		233.19	--		
	1/16/2015	245.8		12.61		233.19	AS	0.0132	
	2/13/2015	245.8		13.2		232.6	AS	0.0793	
	3/24/2015	245.8		11.69		234.11	AS	0.0528	
	4/15/2015	245.8		12.88		232.92	AS	0.0264	
	5/15/2015	245.8		13.17		232.63	AS	0.0793	
	6/23/2015	245.8		11.1		234.7	AS	0.0264	
	7/30/2015	245.8		13.27		232.53	--		
	8/24/2015	245.8	13.36	13.55	0.19	232.25	AS	0.013	
	9/21/2015	245.8	14.62	14.63	0.01	231.17	AS		
	10/27/2015	245.8		13.66		232.14	AS	0.0132	
	11/23/2015	245.8		13.05		232.75	AS	0.066	
	12/28/2015	245.8		11.87		233.93	AS	0.033	
	2/5/2016	245.8		5.07	0	240.73	AS	0	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/18/2016	245.8		7.82	0	237.98	AS	0	
	3/23/2016	245.8		11.81		233.99	--		
	4/27/2016	245.8		13.15		232.65	--		
	5/25/2016	245.8		11		234.8	--		
	6/22/2016	245.8		11.96		233.84	--		
	7/28/2016	245.8		13.16		232.64	--		
	8/23/2016	245.8		11.39		234.41	AS	0.0026	
	9/26/2016	245.8	13.91	13.92	0.01	231.88	AS	0.0026	4.4478
MW-33	7/14/2009	244.26	12.49	12.5	0.01	231.77	--		
	8/3/2009	244.26		12.19		232.07	--		
	9/18/2009	244.26		12.97		231.29	--		
	10/6/2009	244.26	13.24	13.25	0.01	231.02	--		
	12/4/2009	244.26					--		
	5/3/2010	244.26					--		
	5/11/2010	244.26					--		
	5/26/2010	244.26		11.6		232.66	--		
	6/15/2010	244.26					--		
	7/30/2010	244.26		13		231.26	--		
	9/2/2010	244.26		12.47		231.79	--		
	10/13/2010	244.26		12.72		231.54	--		
	11/4/2010	244.26					--		
	12/10/2010	244.26		12.25		232.01	--		
	1/28/2011	244.26		13.51		230.75	--		
	2/14/2011	244.26		13.14		231.12	--		
	3/4/2011	244.26		12.81		231.45	--		
	4/13/2011	244.26					PS		
	5/26/2011	244.26		11.49		232.77	--		
	6/15/2011	244.26		12.05		232.21	--		
	7/14/2011	244.26		12.3		231.96	--		
	8/8/2011	244.26		12.71		231.55	--		
	9/14/2011	244.26		12.25		232.01	--		
	10/25/2011	244.26					--		
	12/15/2011	244.26					--		
	1/27/2012	244.26					--		
	2/7/2012	244.26					--		
	2/28/2012	244.26					--		
	3/20/2012	244.26		12.1		232.16	--		
	5/25/2012	244.26		12.15		232.11	--		
	6/13/2012	244.26		11.93		232.33	--		
	7/18/2012	244.26		12.79		231.47	--		
	9/24/2012	244.26		12.36		231.9	--		
	12/14/2012	244.26		12.41		231.85	--		
	1/11/2013	244.26		12.16		232.1	--		
	5/20/2013	244.26		12.22		232.04	--		
	9/16/2013	244.26		12.81		231.45	--		
	3/10/2014	244.26		11.52		232.74	--		
	9/15/2014	244.26		12.32		231.94	--		
	12/29/2014	244.26		12.21		232.05	--		
	3/24/2015	244.26		11.71		232.55	--		
	6/23/2015	244.26		11.52		232.74	--		
	9/21/2015	244.26		12.73		231.53	--		
	12/28/2015	244.26		11.91		232.35	--		
	3/23/2016	244.26		11.88		232.38	--		
	6/22/2016	244.26		12		232.26	--		
	9/26/2016	244.26		12.47		231.79	--		0
MW-35	6/15/2010	245.8		14		231.8	--		
	9/21/2010	245.8		16.37		229.43	--		
	12/10/2010	245.8		14.51		231.29	--		
	2/14/2011	245.8		15.03		230.77	--		
	5/26/2011	245.8		12.58		233.22	--		
	8/8/2011	245.8		15.29		230.51	--		
	12/15/2011	245.8		12.84		232.96	--		
	3/21/2012	245.8		13.89		231.91	--		
	6/13/2012	245.8		13.62		232.18	--		
	9/24/2012	245.8		14.45		231.35	--		
	1/11/2013	245.8		13.9		231.9	--		
	5/20/2013	245.8		13.96		231.84	--		
	9/16/2013	245.8		15.09		230.71	--		
	12/23/2013	245.8		13.5		232.3	--		
	3/10/2014	245.8		13.18		232.62	--		
	6/9/2014	245.8		13.31		232.49	--		
	9/15/2014	245.8		14.56		231.24	--		
	12/29/2014	245.8		14.11		231.69	--		
	3/24/2015	245.8		13.42		232.38	--		
	6/23/2015	245.8		13.25		232.55	--		
	9/21/2015	245.8		14.82		230.98	--		
	12/28/2015	245.8		13.86		231.94	--		
	3/23/2016	245.8		13.32		232.48	--		
	6/22/2016	245.8		13.41		232.39	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
MW-37	9/26/2016	245.8		14.59		231.21	--		0
	7/14/2009	245.06	13.61	14.09	0.48	231.39	--		
	7/16/2009	245.06	13.54	13.75	0.51	231.75	PP	0.264	
	7/22/2009	245.06	13.88	14.6	0.72	231.09	--		
	8/3/2009	245.06	13.16	13.58	0.42	231.85	--		
	8/18/2009	245.06	13.95	14.35	0.4	231.06	PS	0.238	
	9/3/2009	245.06	13.9	13.94	0.04	231.15	PS	0.608	
	9/18/2009	245.06	14.41	14.67	0.26	230.62	PS		
	10/6/2009	245.06	14.66	14.86	0.2	230.37	PS	0.37	
	10/19/2009	245.06	13.9	13.91	0.01	231.16	PS	0.363	
	11/5/2009	245.06	13.18	13.19	0.01	231.88	PS	0.079	
	11/12/2009	245.06	13.28	13.32	0.04	231.77	PS		
	12/4/2009	245.06	13.02	13.06	0.04	232.03	PS	0.225	
	12/11/2009	245.06	12.05	12.11	0.06	233	PS	0.004	
	12/16/2009	245.06	12.1	12.11	0.01	232.96	PS	0.003	
	12/29/2009	245.06	11.48	11.5	0.02	233.58	PS	0.003	
	1/20/2010	245.06	12.47	12.83	0.36	232.54	--		
	2/16/2010	245.06	12.2	12.45	0.25	232.83	PS	0.211	
	3/1/2010	245.06	11.37	11.39	0.02	233.69	PS	0.036	
	3/8/2010	245.06	11.55	11.65	0.1	233.5	PS	0.003	
	4/5/2010	245.06	11.61	11.76	0.15	233.43	PS		
	5/3/2010	245.06	12.21	12.97	0.76	232.75	PS	0.013	
	5/11/2010	245.06	12.57	12.7	0.19	232.53	PS	0.581	
	5/26/2010	245.06					--		
	6/15/2010	245.06					--		
	7/30/2010	245.06	14.68	15.82	1.14	230.23	PS	0.132	
	9/2/2010	245.06	16.17	16.21	0.04	228.88	PS	0.053	
	9/21/2010	245.06	15.62	16.75	1.13	229.29	PS	0.132	
	10/13/2010	245.06	14.34	15.1	0.76	230.62	--		
	11/4/2010	245.06					PS		
	11/12/2010	245.06	13.78	13.83	0.05	231.27	PS	0.106	
	11/19/2010	245.06	13.41	13.6	0.19	231.63	PS	0.476	
	12/3/2010	245.06	13.63	14.09	0.46	231.37	PS	0.793	
	12/10/2010	245.06	13.75	13.98	0.23	231.28	--		
	12/21/2010	245.06	14.09	14.27	0.18	230.95	PS	0.793	
	1/6/2011	245.06	14.53	14.82	0.29	230.49	PS	0.007	
	1/28/2011	245.06	13.21	13.24	0.03	231.85	PS	0.317	
	2/14/2011	245.06					--		
	3/4/2011	245.06					PS		
	3/22/2011	245.06	12.33	12.35	0.02	232.73	PS	0.793	
	4/13/2011	245.06					PS		
	4/20/2011	245.06	10.95	10.98	0.03	234.11	PS	0.005	
	4/29/2011	245.06	11.43	11.52	0.09	233.62	PS	0.003	
	5/13/2011	245.06	12.41	12.69	0.28	232.61	PS	0.005	
	5/26/2011	245.06	13.94	13.98	0.04	231.11	--		
	6/9/2011	245.06	12.97	13.38	0.41	232.04	PS	0.198	
	6/15/2011	245.06	13.15	13.47	0.32	231.87	PS	0.264	
	7/14/2011	245.06					PS		
	7/21/2011	245.06	14.16	14.4	0.24	230.87	PS	0.423	
	8/8/2011	245.06	15.15	15.3	0.15	229.89	--		
	8/17/2011	245.06	14.98	15.31	0.33	230.04	PS	0.005	
	8/24/2011	245.06	15.08	15.31	0.23	229.95	PS	0.172	
	9/1/2011	245.06	15.22	15.25	0.03	229.84	PS	0.172	
	9/14/2011	245.06	13.55	13.58	0.03	231.51	PS	0.106	
	10/6/2011	245.06	12.89	13.01	0.12	232.15	PP	0.211	
	10/25/2011	245.06					--		
	11/15/2011	245.06					--		
	12/15/2011	245.06					--		
	1/27/2012	245.06					--		
	2/7/2012	245.06					--		
	2/28/2012	245.06					--		
	3/3/2012	245.06	12.41	13.87	1.46	232.46	PS	0.251	
	3/21/2012	245.06	14	14.5	0.5	231	--		
	3/27/2012	245.06	13.3	13.95	0.65	231.68	PS	0.343	
	4/13/2012	245.06	13.98	14.16	0.18	231.06	PS	0.766	
	4/27/2012	245.06	14.02	14.03	0.01	231.04	PS	0.449	
	5/11/2012	245.06	13.75	13.76	0.01	231.31	PS	0.476	
	5/25/2012	245.06	13.08	13.09	0.01	231.98	PS	0.145	
	6/7/2012	245.06	12.73	12.74	0.01	232.33	PS	0.079	
	6/13/2012	245.06	12.87	12.89	0.02	232.19	PS	0.106	
	6/21/2012	245.06	13.65	13.67	0.02	231.41	PS	0.066	
	7/3/2012	245.06	13.95	14.04	0.09	231.1	PS	0.225	
	7/18/2012	245.06	14.4	14.52	0.12	230.64	PS	0.007	
	8/1/2012	245.06	14.15	14.19	0.04	230.9	PS	0.291	
	8/16/2012	245.06	14.69	14.7	0.01	230.37	PS	0.132	
	9/7/2012	245.06	15.18	15.19	0.01	229.88	PS	0.079	
	9/24/2012	245.06	13.8	13.84	0.04	231.25	PS		
	10/8/2012	245.06	13.68	13.84	0.16	231.36	PS	0.013	
	10/24/2012	245.06	13.51	13.54	0.03	231.55	PS	0.304	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	11/19/2012	245.06	12.55	12.56	0.01	232.51	PS		
	12/14/2012	245.06					--		
	1/7/2013	245.06	13.21	13.31	0.1	231.84	PS	0.079	
	1/11/2013	245.06	13.04	13.06	0.02	232.02	--		
	2/6/2013	245.06	12.16	12.19	0.03	232.9	PS	0.003	
	3/1/2013	245.06	12.43	12.46	0.03	232.63	PS	0.053	
	3/15/2013	245.06	11.74	11.75	0.01	233.32	PS	0.066	
	3/29/2013	245.06	12.73	12.78	0.05	232.32	PS	0.198	
	4/11/2013	245.06	13.39	13.4	0.01	231.67	PS	0.198	
	4/26/2013	245.06	13.58	13.59	0.01	231.48	PS	0.172	
	5/13/2013	245.06		12.79		232.27	PS	0.119	
	5/20/2013	245.06	13.13	13.14		231.92	--		
	5/24/2013	245.06		13.85		231.21	PS	0.079	
	8/2/2013	245.06	13.59	13.6	0.01	231.47	PS	0	
	9/4/2013	245.06	14.21	14.44	0.23	230.82	PS	0.502	
	9/12/2013	245.06	14.31	14.32	0.01	230.75	PP	0.011	
	9/16/2013	245.06	14.58	15.6	1.02	230.35	PS		
	10/30/2013	245.06	13.49	13.62	0	231.44	PS	0.119	
	11/21/2013	245.06	14.4	14.41	0	230.65	PS	0.211	
	12/19/2013	245.06	13.36	13.38	0	231.68	PS		
	12/23/2013	245.06	12.12	12.13	0	232.93	--		
	1/15/2014	245.06		11.81		233.25	--		
	2/18/2014	245.06	12.02	12.05	0.03	233.04	AS	0.119	
	3/10/2014	245.06		12.02		233.04	--		
	3/11/2014	245.06		12		233.06	AS	0.172	
	4/2/2014	245.06	12.43	12.5	0.07	232.62	AS	0.119	
	4/28/2014	245.06	12.57	12.86	0.29	232.45	PS	0.211	
	6/5/2014	245.06	12.12	12.27	0.15	232.92	AS	0.172	
	6/9/2014	245.06	12.42	12.56	0.14	232.62	--		
	6/25/2014	245.06	11.8	11.85	0.05	233.25	AS	0.159	
	7/17/2014	245.06	11.81	11.88	0.07	233.24	AS	0.178	
	8/7/2014	245.06	13.24	13.9	0.66	231.73	AS	0.053	
	9/15/2014	245.06	14.11	14.65	0.54	230.88	--		
	9/25/2014	245.06	14.03	14.85	0.82	230.92	AS	0.31	
	10/2/2014	245.06	14.01	14.35	0.34	231.01	AS	0.211	
	10/30/2014	245.06	13.99	14.6	0.61	230.99	AS	0.231	
	11/25/2014	245.06	14.51	15.22	0.71	230.46	AS	0.099	
	12/23/2014	245.06	13.51	13.64	0.13	231.53	AS	0.33	
	12/29/2014	245.06	13.26	13.4	0.14	231.78	AS	0.053	
	1/16/2015	245.06	13.14	13.4	0.26	231.66	AS	0.1519	
	2/13/2015	245.06	13.37	13.78	0.41	231.28	AS	0.1057	
	3/24/2015	245.06	12.18	12.33	0.15	232.73	AS	0.1717	
	4/15/2015	245.06	13.09	13.21	0.12	231.85	AS	0.317	
	5/15/2015	245.06	13.3	13.58	0.28	231.48	AS	0.2774	
	6/23/2015	245.06	11.8	11.92	0.12	233.14	AS	0.1321	
	7/30/2015	245.06	13.79	14.16	0.37	230.9	AS	0.132	
	8/24/2015	245.06	13.72	13.72		231.34	AS	0.132	
	9/21/2015	245.06	14.65	15.39	0.74	229.67	AS	0.132	
	10/27/2015	245.06	14.39	14.96	0.57	230.1	AS	0.2774	
	11/23/2015	245.06		13.23		231.83	AS	0.066	
	12/28/2015	245.06	12.48	12.86	0.38	232.2	AS	0.1123	
	2/5/2016	245.06	11.01	11.18	0.17	233.88	AS	0.1453	
	2/18/2016	245.06	11.13	11.14	0.01	233.92	AS	0.1717	
	3/23/2016	245.06	12.09	13.39	1.3	231.67	AS	0.1981	
	3/23/2016	245.06	12.09	13.39	1.3	231.67	PP	1.0963	
	4/27/2016	245.06	13.33	13.86	0.53	231.2	AS	0.1519	
	5/25/2016	245.06	11.1	11.91	0.81	233.15	AS	0.2378	
	6/22/2016	245.06	12.78	12.63	0.15	232.43	--		
	7/28/2016	245.06	13.78	14.35	0.57	230.71	AS	0.1585	
	8/23/2016	245.06	12.29	12.38	0.09	232.68	AS	0.2378	
	9/26/2016	245.06	14.18	14.74	0.56	230.32	AS	0.1651	20.696
MW-38	7/14/2009	246.09	5.22	9.6	4.38	240.3	--		
	8/3/2009	246.09	4.67	9.25	4.58	240.82	SP	10	
	8/18/2009	246.09	5.6	12.6	7	239.58	SP	2.316	
	8/20/2009	246.09	5.44	11.67	6.23	239.84	SP	3.281	
	9/3/2009	246.09	5.11	11.61	6.5	240.14	SP	1.93	
	9/8/2009	246.09					SP	9.843	
	9/9/2009	246.09	5.65	6.15	0.5	240.38	--		
	9/18/2009	246.09	7.13	7.58	0.45	238.9	SP	6.8	
	10/6/2009	246.09	7.24	7.87	0.63	238.77	SP	15.2	
	10/19/2009	246.09	4.67	5.15	0.48	241.36	SP	3.47	
	11/5/2009	246.09	4.9	4.99	0.09	241.18	--		
	11/12/2009	246.09	5.12	5.13	0.01	240.97	SP	1.93	
	12/4/2009	246.09	4.92	5.2	0	240.89	SP		
	12/11/2009	246.09	4.52	4.6	0.08	241.56	SP	0.58	
	12/16/2009	246.09	4.73	4.74	0.01	241.36	SP	0.19	
	12/24/2009	246.09	4.94	5.13	0.19	241.13	SP		
	12/29/2009	246.09	4.31	4.35	0.04	241.77	SP	0.2	
	1/20/2010	246.09	4.59	4.6	0.01	241.5	PS	0.026	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/16/2010	246.09	4.77	4.8	0.02	241.31	PS	0.013	
	3/1/2010	246.09	4.24	4.25	0.01	241.85	PS	0.003	
	3/8/2010	246.09	4.45	4.48	0.03	241.64	--		
	4/5/2010	246.09		4.46		241.63	--		
	5/3/2010	246.09	4.73	4.77	0.04	241.35	--		
	5/26/2010	246.09	4.52	4.62	0.1	241.56	AS	0.053	
	6/15/2010	246.09	5.1	5.26	0.16	240.97	--		
	6/18/2010	246.09	5.43	5.61	0.18	240.64	PP	0.066	
	7/30/2010	246.09	8.39	8.65	0.26	237.67	AS	0.079	
	9/2/2010	246.09	9.89	10.05	0.16	236.18	PP	0.026	
	9/21/2010	246.09	9.67	10.35	0.66	236.31	PP	0.119	
	10/13/2010	246.09	4.79	5.25	0.46	241.24	--		
	11/4/2010	246.09	5.09	5.2	0.11	240.99	PS	0.007	
	11/12/2010	246.09	5.03	5.21	0.18	241.04	PS	0.026	
	11/19/2010	246.09	5.09	5.16	0.07	240.99	PS	0.026	
	12/3/2010	246.09	4.68	5.01	0.33	241.37	PS	0.079	
	12/10/2010	246.09	4.97	5.04	0.07	241.11	--		
	12/21/2010	246.09	5.2	5.42	0.22	240.86	PS	0.003	
	1/6/2011	246.09	14.89	14.99	0.1	231.19	--		
	1/28/2011	246.09	15.01	15.04	0.03	231.08	PS	0.053	
	2/14/2011	246.09	14.09	14.26	0.17	231.98	--		
	2/18/2011	246.09	15.15	15.23	0.08	230.93	PS	0.132	
	3/4/2011	246.09	5.4	5.58	0.18	240.67	PS	0.449	
	3/22/2011	246.09	4.73	4.76	0.03	241.36	PS	0.211	
	4/13/2011	246.09	4.67	4.7	0.03	241.42	PS	0.092	
	4/20/2011	246.09	4.29	4.3	0.01	241.8	PS	0.026	
	4/29/2011	246.09	4.38	4.4	0.02	241.71	PS	0.007	
	5/13/2011	246.09	4.74	4.77	0.03	241.35	PS	0.007	
	5/26/2011	246.09	5.16	5.17	0.01	240.93	--		
	6/15/2011	246.09	4.93	4.95	0.02	241.16	PS	0.066	
	7/14/2011	246.09					PS		
	7/21/2011	246.09		5.2		240.89	PS	0.317	
	8/8/2011	246.09	6.11	6.24	0.13	239.96	--		
	8/17/2011	246.09	5.17	5.8	0.63	240.84	PS	0.581	
	8/24/2011	246.09	5.17	6.58	1.41	240.74	PS	0.132	
	9/1/2011	246.09	4.98	6.02	1.04	240.97	PS	0.74	
	9/14/2011	246.09	4.61	4.62	0.01	241.48	PS	0.793	
	10/6/2011	246.09	4.5	4.55	0.05	241.58	PP	0.119	
	10/25/2011	246.09	4.52	4.54	0.02	241.57	PS	0.013	
	11/15/2011	246.09	4.85	4.87	0.02	241.24	PS	0.066	
	12/8/2011	246.09	4.54	4.56	0.02	241.55	PS	0.211	
	12/15/2011	246.09	4.67	4.69	0.02	241.42	--		
	12/21/2011	246.09	4.82	4.84	0.02	241.27	PS	0.172	
	1/6/2012	246.09	5.03	5.06	0.03	241.06	PS	0.343	
	1/27/2012	246.09	5.05	5.07	0.02	241.04	PS	0.634	
	2/7/2012	246.09	5.15	5.3	0.15	240.92	PS	0.145	
	2/28/2012	246.09		13.89		232.2	PS		
	3/3/2012	246.09	5.08	5.22	0.14	240.99	PS	0.74	
	3/21/2012	246.09	6.62	6.69	0.07	239.46	--		
	3/27/2012	246.09	9.61	9.88	0.27	236.44	PS	0.079	
	4/13/2012	246.09	14.35	14.36	0.01	231.74	PS	0.264	
	4/27/2012	246.09	14.83	14.84	0.01	231.26	PS	0	
	5/25/2012	246.09		4.71		241.38	PS	0.33	
	6/7/2012	246.09	4.73	4.74	0.01	241.36	PS	0.634	
	6/13/2012	246.09	4.81	4.82	0.01	241.28	PS	0.079	
	6/21/2012	246.09	5.02	5.14	0.12	241.05	PS	0.092	
	7/3/2012	246.09	5.33	5.85	0.52	240.69	PS	0.172	
	7/18/2012	246.09	5.41	6	0.59	240.6	PS	0.132	
	8/1/2012	246.09	4.98	4.99	0.01	241.11	PS	0.74	
	8/16/2012	246.09	5.05	6.17	1.12	240.89	PS	0.713	
	9/7/2012	246.09	5.47	7.35	1.88	240.38	PS	0.013	
	9/24/2012	246.09	4.7	5.01	0.31	241.35	PS		
	10/8/2012	246.09	4.81	4.97	0.16	241.26	PS	0.02	
	10/24/2012	246.09	4.82	5.08	0.26	241.24	PS		
	11/19/2012	246.09	4.75	4.79	0.04	241.33	PS	0.013	
	12/14/2012	246.09	5.785	5.83	0.045	240.3	PS	0.001	
	1/7/2013	246.09	4.98	5.1	0.12	241.09	PS	0.013	
	1/11/2013	246.09		5.05		241.04	--		
	2/6/2013	246.09	4.86	4.9	0.04	241.22	PS	0.005	
	3/1/2013	246.09	5.09	5.54	0.46	240.95	PS	0.053	
	3/15/2013	246.09	5	5.32	0.32	241.05	PS	0.053	
	3/29/2013	246.09	5.27	5.41	0.14	240.8	PS	0.211	
	4/11/2013	246.09	12.98	12.99	0.01	233.11	PS	0.026	
	4/26/2013	246.09		14.43		231.66	PS	0.013	
	5/13/2013	246.09	6.26	6.29	0.03	239.83	PS	0.026	
	5/20/2013	246.09	7.81	8		238.09	--		
	5/24/2013	246.09	5.08	5.12	0.04	241	PS	0.007	
	6/10/2013	246.09	5	5.05	0.05	241.08	PS	0.145	
	8/2/2013	246.09	5.48	5.51	0.03	240.61	PS	0.04	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/4/2013	246.09	5.96	8.82	2.86	239.76	PS	0.793	
	9/16/2013	246.09	6.32	9.35	3.03	239.38	PS	0.145	
	10/30/2013	246.09	5.29	6.01	1	240.95	PS	0.013	
	11/21/2013	246.09	11.7	12.18	0	233.91	PS	0.007	
	12/19/2013	246.09	4.83	4.96	0	241.13	PS	0.026	
	12/23/2013	246.09	4.75	4.76	0	241.33	PS	0.436	
	1/15/2014	246.09	4.74	4.8	0.06	241.34	PS	0.462	
	2/18/2014	246.09	4.99	5.01	0.02	241.1	PS	0.264	
	3/10/2014	246.09		5.75		240.34	PS	0.436	
	3/11/2014	246.09		5.65		240.44	PS	0.343	
	4/2/2014	246.09	4.65	4.92	0.27	241.4	PS	0.192	
	4/28/2014	246.09	5.43	5.5	0.07	240.65	PS	0.225	
	6/5/2014	246.09	4.96	4.98	0.02	241.13	PS	0.198	
	6/9/2014	246.09	5.58	5.6	0.02	240.51	--		
	6/25/2014	246.09	4.81	4.82	0.01	241.28	PS	0.079	
	7/17/2014	246.09	4.58	4.59	0.01	241.51	PS	0.013	
	8/7/2014	246.09	5.62	5.64	0.02	240.47	PS	0	
	9/15/2014	246.09	5.3	5.54	0.24	240.76	--		
	9/25/2014	246.09	5.72	6.06	0.34	240.33	PS	0.793	
	10/2/2014	246.09	5.74	6.01	0.27	240.31	PS	0.032	
	10/2/2014	246.09	5.74	6.01	0.27	240.31	PP	0.185	
	10/30/2014	246.09	5.23	6.12	0.89	240.74	PP	0.528	
	10/30/2014	246.09	5.23	6.12	0.89	240.74	PS	0.708	
	11/25/2014	246.09	6.52	8.09	1.57	239.37	PP	0.423	
	11/25/2014	246.09	6.52	8.09	1.57	239.37	PS	0.198	
	12/23/2014	246.09	5.59	6.45	0.86	240.39	PP	1.057	
	12/23/2014	246.09	5.59	6.45	0.86	240.39	PS	0.013	
	12/29/2014	246.09	5.2	5.71	0.51	240.82	PS	0.008	
	1/16/2015	246.09	5.3	5.83	0.53	240.26	PP	0.1717	
	2/13/2015	246.09	6.22	7	0.78	239.09	PP	0.2576	
	2/13/2015	246.09	6.22	7	0.78	239.09	PS	0.0066	
	3/24/2015	246.09	4.59	5.49	0.9	240.6	PP	0.4953	
	3/24/2015	246.09	4.59	5.49	0.9	240.6	PS	0.0132	
	4/15/2015	246.09	6.46	6.9	0.44	239.19	PS	0.0132	
	4/15/2015	246.09	6.46	6.9	0.44	239.19	PP	0.2642	
	5/15/2015	246.09					--		
	6/24/2015	246.09	3.12	5.49	2.37	240.6	PS	0.7925	
	6/24/2015	246.09	3.12	5.49	2.37	240.6	PP	1.3539	
	7/30/2015	246.09	13.62	16.88	3.26	229.21	PS	0.793	
	7/30/2015	246.09	13.62	16.88	3.26	229.21	PP	0.977	
	8/24/2015	246.09					--		
	9/21/2015	246.09	6.02	10.05	4.03	236.04	PS	0.793	
	9/21/2015	246.09	6.02	10.05	4.03	236.04	PP	2.582	
	10/27/2015	246.09	6	6.66	0.66	239.43	PS	0.0132	
	12/28/2015	246.09	4.02	4.44	0.42	241.65	PS	0.7925	
	2/5/2016	246.09	4.02	4.3	0.28	241.79	PS	0.0026	
	2/18/2016	246.09	4.28	4.3	0.02	241.79	PS	0.0026	
	3/23/2016	246.09	5.11	5.12	0.01	240.97	PS	0.0264	
	4/27/2016	246.09					--		
	5/25/2016	246.09					--		
	6/22/2016	246.09					--		
	7/27/2016	246.09	5.36	6.77	1.41	239.32	PP	1.2416	
	7/28/2016	246.09	5.36	6.77	1.41	239.32	PS	0.0396	
	8/23/2016	246.09	4.5	4.57	0.07	241.52	PS	0.7925	
	9/26/2016	246.09	5.01	5.3	0.29	240.79	PS	0.0528	85.243
MW-39	6/15/2010	245.65		13.22		232.43	--		
	9/21/2010	245.65		16.38		229.27	--		
	12/10/2010	245.65		13.95		231.7	--		
	2/14/2011	245.65		14.73		230.92	--		
	5/26/2011	245.65		11.95		233.7	--		
	8/8/2011	245.65		15.16		230.49	--		
	12/15/2011	245.65		11.95		233.7	--		
	3/21/2012	245.65		13.45		232.2	--		
	6/13/2012	245.65		13.23		232.42	--		
	9/24/2012	245.65		14.08		231.57	--		
	1/11/2013	245.65	13.22	13.31	0.09	232.42	--		
	3/15/2013	245.65	11.48	11.56	0.08	234.16	AS	0.04	
	3/29/2013	245.65		12.91		232.74	AS		
	4/11/2013	245.65	13.43	13.46	0.03	232.22	AS	0.003	
	4/26/2013	245.65		13.86		231.79	AS		
	5/13/2013	245.65		12.78		232.87	--		
	5/20/2013	245.65		13.91		231.74	--		
	5/24/2013	245.65		13.25		232.4	--		
	6/10/2013	245.65		12.4		233.25	--		
	8/2/2013	245.65		13.81		231.84	--		
	9/4/2013	245.65		14.64		231.01	--		
	9/12/2013	245.65		14.91		230.74	--		
	9/16/2013	245.65		15.04		230.61	--		
	10/30/2013	245.65		14.82		230.83	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	11/21/2013	245.65		14.95		230.7	--		
	12/19/2013	245.65		12.11		233.54	--		
	12/23/2013	245.65		12.36		233.29	--		
	1/15/2014	245.65		11.68		233.97	--		
	2/18/2014	245.65		12.37		233.28	--		
	3/10/2014	245.65		12.55		233.1	--		
	4/28/2014	245.65		13.15		232.5	--		
	6/5/2014	245.65		12.59		233.06	--		
	6/9/2014	245.65		12.9		232.75	--		
	6/25/2014	245.65		12.29		233.36	--		
	7/17/2014	245.65		12.58		233.07	--		
	8/7/2014	245.65		13.89		231.76	--		
	9/15/2014	245.65		14.52		231.13	--		
	9/25/2014	245.65		13.27		232.38	--		
	10/30/2014	245.65		14.74		230.91	--		
	11/25/2014	245.65		15.22		230.43	--		
	12/23/2014	245.65		14.15	14.15	243.81	--		
	12/29/2014	245.65		13.47		232.18	--		
	1/16/2015	245.65		14.78		230.87	--		
	2/13/2015	245.65		13.18		232.47	--		
	3/24/2015	245.65		12.72		232.93	--		
	4/15/2015	245.65		13.7		231.95	--		
	5/15/2015	245.65		13.96		231.69	--		
	6/23/2015	245.65		12.8		232.85	--		
	7/30/2015	245.65		14.02		231.63	--		
	8/24/2015	245.65		14.44		231.21	--		
	9/21/2015	245.65		15.31		230.34	--		
	10/27/2015	245.65		14.39		231.26	--		
	11/23/2015	245.65		14.04		231.61	--		
	12/28/2015	245.65		13.29		232.36	--		0.043
MW-41	7/14/2009	246.07	14.3	16.13	1.83	231.53	--		
	7/16/2009	246.07	14.25	16.13	1.88	231.58	PP	1.268	
	7/22/2009	246.07	14.75	15.33	0.58	231.24	--		
	8/3/2009	246.07	13.96	14.69	0.73	232.02	PP	0.502	
	8/18/2009	246.07	14.76	15.53	0.77	231.21	PP	0.37	
	9/3/2009	246.07	14.74	15.3	0.56	231.26	PP	0.423	
	9/18/2009	246.07	15.21	15.71	0.5	230.8	PP		
	10/6/2009	246.07	17.39	17.41	0.02	228.68	PS	0.476	
	10/19/2009	246.07	16.73	16.81	0.08	229.33	PS	0.003	
	11/5/2009	246.07	14.5	14.81	0.31	231.53	PP	0.608	
	11/5/2009	246.07	14.5	14.81	0.31	231.53	AS	0.264	
	11/12/2009	246.07					AS	0.211	
	11/12/2009	246.07	14.57	15.22	0.65	231.42	PP	0.291	
	12/4/2009	246.07	14.42	15.55	1.13	231.5	AS	0.264	
	12/4/2009	246.07	14.42	15.55	1.13	231.5	PP	0.872	
	12/11/2009	246.07	12.7	13.64	0.94	233.25	--		
	12/16/2009	246.07	14.12	14.71	0.59	231.87	PS	0.779	
	12/29/2009	246.07	13.13	14.54	1.41	232.76	PS	0.079	
	1/20/2010	246.07	13.25	14.33	1.08	232.68	PS	0.119	
	2/16/2010	246.07	13.65	14.78	1.13	232.27	PS	0.004	
	3/1/2010	246.07	12.4	13.68	1.28	233.5	PS	0.449	
	3/8/2010	246.07	13.68	13.89	0.21	232.36	PS	0.793	
	4/5/2010	246.07	13.25	14.5	1.25	232.66	PS	0.449	
	5/3/2010	246.07		14.28		231.79	PS	0.872	
	5/11/2010	246.07	14.45	15.8	1.35	231.44	PS	0.925	
	5/26/2010	246.07	13.68	14.93	1.25	232.23	PS	0.793	
	6/15/2010	246.07	16.04	17.48	1.44	229.84	--		
	6/18/2010	246.07	16.03	17.39	1.36	229.86	PS	0.449	
	7/30/2010	246.07	16.46	17.74	1.28	229.44	PS	0.317	
	9/2/2010	246.07	15.57	16.32	0.75	230.4	--		
	9/9/2010	246.07	16.66	16.67	0.01	229.41	SP	0.193	
	9/21/2010	246.07	16.83	16.88	0.05	229.23	SP		
	10/13/2010	246.07	15.62	15.81	0.19	230.43	SP	1.158	
	11/4/2010	246.07	15	15.97	0.97	230.94	SP		
	11/12/2010	246.07	15.38	15.73	0.35	230.64	SP	0.386	
	12/3/2010	246.07	14.55	14.81	0.26	231.49	SP	0.193	
	12/10/2010	246.07	14.65	15.31	0.66	231.33	--		
	12/21/2010	246.07	14.37	14.51	0.16	231.7	SP		
	1/6/2011	246.07	15.31	15.89	0.58	230.68	SP	1.544	
	1/28/2011	246.07	15.97	16.65	0.69	230.02	SP	0.193	
	2/14/2011	246.07	15.18	15.31	0.13	230.87	--		
	2/18/2011	246.07	15.2	15.53	0.33	230.83	SP	0.193	
	3/4/2011	246.07	14.75	14.82	0.07	231.31	SP	1.158	
	3/22/2011	246.07	13.07	13.65	0.58	232.92	SP	0.386	
	4/13/2011	246.07	13.33	13.47	0.14	232.72	SP	4.632	
	4/20/2011	246.07	11.59	11.73	0.14	234.46	SP	0	
	4/29/2011	246.07	12.11	13.78	1.67	233.74	SP	0.193	
	5/13/2011	246.07	13.44	14.05	0.61	232.55	SP	6.755	
	5/20/2011	246.07	10.94	11	0.06	235.12	SP	0.193	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	5/26/2011	246.07	13.36	13.94	0.48	232.55	--		
	6/9/2011	246.07	13.63	14.66	1.03	232.31	SP	0.193	
	6/15/2011	246.07	14.34	14.35	0.01	231.73	SP	2.316	
	7/14/2011	246.07	14.93	16.2	1.27	230.97	SP	6.176	
	7/29/2011	246.07					SP	5.018	
	8/8/2011	246.07	15.54	15.95	0.41	230.48	--		
	8/17/2011	246.07	16.1	16.2	0.1	229.96	SP	1.544	
	8/24/2011	246.07	16.05	16.2	0.15	230	SP	0.386	
	9/1/2011	246.07	16.12	16.23	0.11	229.94	SP	0.193	
	9/14/2011	246.07	14.5	14.54	0.04	231.56	SP	0.386	
	10/6/2011	246.07	13.74	14.15	0.41	232.28	SP	0.386	
	10/25/2011	246.07	13.19	13.55	0.36	232.83	SP	0.193	
	11/15/2011	246.07	13.98	14.8	0.82	231.98	SP	0.193	
	12/8/2011	246.07	12.68	13.61	0.93	233.27	SP	1.351	
	12/15/2011	246.07	12.42	12.95	0.53	233.58	--		
	12/21/2011	246.07	13.13	14.28	1.15	232.79	SP	0.386	
	1/6/2012	246.07	13.39	13.67	0.28	232.64	SP	1.544	
	1/27/2012	246.07	13.13	14.4	1.27	232.77	SP	1.544	
	2/7/2012	246.07	14.04	14.41	0.37	231.98	SP	3.667	
	2/28/2012	246.07	14.62	14.64	0.02	231.45	SP	0.193	
	3/3/2012	246.07	13.53	13.78	0.25	232.51	SP	0.965	
	3/21/2012	246.07	13.96	15.18	1.22	231.95	--		
	3/27/2012	246.07	14.21	15.45	1.24	231.7	SP	0	
	4/13/2012	246.07	15.05	15.37	0.32	230.98	SP	3.474	
	4/27/2012	246.07	14.65	15.49	0.84	231.31	SP	0	
	5/11/2012	246.07	14.73	15.03	0.3	231.3	SP	1.54	
	5/25/2012	246.07	13.84	14.09	0.25	232.2	SP	0.772	
	6/7/2012	246.07	13.49	13.56	0.07	232.57	SP	0.579	
	6/13/2012	246.07	13.71	14.16	0.45	232.3	SP		
	6/21/2012	246.07	13.99	14.65	0.66	231.99	SP	1.349	
	7/3/2012	246.07	14.8	15.23	0.43	231.21	SP	1.546	
	7/18/2012	246.07	15.08	15.34	0.26	230.96	SP	0.392	
	8/1/2012	246.07	14.85	15.7	0.85	231.11	SP	1.351	
	8/16/2012	246.07	15.42	15.53	0.11	230.64	SP	0.965	
	9/7/2012	246.07	15.68	15.93	0.25	230.36	SP	0.193	
	9/24/2012	246.07	14.58	14.71	0.13	231.47	SP		
	10/8/2012	246.07	14.55	14.71	0.16	231.5	SP	0.193	
	10/24/2012	246.07	14.53	14.67	0.14	231.52	SP	1.158	
	11/19/2012	246.07	13.33	13.62	0.29	232.7	SP	0.386	
	12/14/2012	246.07	13.34	15.73	2.39	232.42	SP	0.772	
	1/7/2013	246.07	13.77	15.19	1.42	232.12	SP	3.86	
	1/11/2013	246.07	13.67	15.02	1.35	232.22	--		
	1/23/2013	246.07	12.98	14.85	1.87	232.85	PP	1.056	
	2/6/2013	246.07	12.48	13.74	1.26	233.43	PP	1.11	
	3/1/2013	246.07	13.26	13.4	0.14	232.79	SP	4.439	
	3/15/2013	246.07	12.68	12.71	0.03	233.39	SP	1.48	
	3/29/2013	246.07	13.4	13.81	0.41	232.62	SP	0.386	
	4/11/2013	246.07	13.83	15.26	1.43	232.05	SP	0.965	
	4/26/2013	246.07	14.63	14.67	0.04	231.43	SP	0.901	
	5/13/2013	246.07		13.81		232.26	SP	0.643	
	5/20/2013	246.07	13.25	13.85		232.22	--		
	5/24/2013	246.07	13.74	14.22	0.48	232.27	SP	0.322	
	6/10/2013	246.07		13.44		232.63	AS	0.462	
	6/10/2013	246.07	13.17	13.44	0.27	232.86	SP	1.158	
	8/2/2013	246.07	14.16	14.17	0.01	231.91	SP		
	9/4/2013	246.07	14.93	16.12	1.19	230.99	SP	5.404	
	9/16/2013	246.07	15.39	15.85	0.46	230.62	SP		
	10/30/2013	246.07	14.27	15.18	1	231.76	SP	1.351	
	11/21/2013	246.07	15.1	16.41	1	230.53	SP	0.772	
	12/19/2013	246.07	13.01	13.03	0	233.04	PP	0.586	
	12/19/2013	246.07	12.96	13.24	0	232.83	SP	1.544	
	12/23/2013	246.07	12.99	14.51	2	233.3	--		
	1/15/2014	246.07	11.97	12.95	0.98	233.97	SP	2.895	
	2/18/2014	246.07					PP	1.902	
	2/18/2014	246.07	14.02	14.19	0.17	232.03	SP	0.965	
	3/10/2014	246.07	11.92	14.27	2.35	233.84	--		
	4/2/2014	246.07	12.5	12.71	0.21	233.54	PS		
	4/28/2014	246.07	13.41	14.68	1.27	232.49	SP	3.474	
	6/5/2014	246.07	12.38	15.07	2.69	233.34	SP	0.965	
	6/5/2014	246.07					AS	1.288	
	6/9/2014	246.07	13.05	14.28	1.23	232.86	AS	1.268	
	6/25/2014	246.07	12.6	12.64	0.04	233.46	SP	1.737	
	7/17/2014	246.07	12.73	12.91	0.18	233.32	SP	1.737	
	8/7/2014	246.07	14.03	15.14	1.11	231.9	SP	3.667	
	8/7/2014	246.07	14.03	15.14	1.11	231.9	PP	0.726	
	9/15/2014	246.07	14.42	15.98	1.56	231.45	--		
	9/25/2014	246.07	15.04	15.35	0.31	230.99	SP	0.579	
	9/25/2014	246.07	15.04	15.35	0.31	230.99	PP	0.291	
	10/2/2014	246.07	15.05	15.48	0.43	230.96	PP	0.189	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	10/30/2014	246.07	14.84	15.4	0.56	231.16	SP	0.965	
	10/30/2014	246.07	14.84	15.4	0.56	231.16	PP	0.256	
	11/25/2014	246.07	15.64	15.72	0.08	230.42	SP	0.836	
	12/23/2014	246.07	14.31	14.79	0.48	231.7	SP	2.38	
	12/29/2014	246.07	13.76	14.32	0.56	232.24	--		
	1/16/2015	246.07	13.53	14.73	1.2	231.34	PP	0.4874	
	1/16/2015	246.07	13.53	14.73	1.2	231.34	SP	0	
	2/13/2015	246.07	14.1	15.85	1.75	230.22	PP	0.951	
	2/13/2015	246.07	14.1	15.85	1.75	230.22	SP	0	
	3/24/2015	246.07	12.69	14.4	1.71	231.67	PP	0.6868	
	3/24/2015	246.07	12.69	14.4	1.71	231.67	SP	0.193	
	4/15/2015	246.07	13.93	14.12	0.19	231.95	SP	1.93	
	5/15/2015	246.07	14.19	14.19		231.88	SP	0.579	
	6/23/2015	246.07	12.97	13.41	0.44	232.66	SP	0.386	
	7/30/2015	246.07	13.91	13.93	0.02	232.14	SP	0.579	
	8/24/2015	246.07	14.29	15.52	1.23	230.55	SP	1.351	
	8/24/2015	246.07	14.29	15.52	1.23	230.55	PP	0.396	
	9/21/2015	246.07	15.63	15.65	0.02	230.42	SP	3.281	
	10/27/2015	246.07	14.65	15.36	0.71	230.71	SP	1.737	
	11/23/2015	246.07	13.84	15	1.16	231.07	SP	1.351	
	11/23/2015	246.07	13.84	15	1.16	231.07	PP	0.7661	
	12/28/2015	246.07	12.95	12.96	0.01	233.11	SP	5.211	
	2/5/2016	246.07	11.45	12.9	1.45	233.17	SP	0	
	2/5/2016	246.07	11.45	12.9	1.45	233.17	PP	0.9906	
	2/18/2016	246.07	11.64	12.15	0.51	233.92	SP	0.193	
	3/23/2016	246.07	12.73	14.62	1.89	231.45	SP	0.193	
	3/23/2016	246.07	12.73	14.62	1.89	231.45	PP	0.7265	
	4/27/2016	246.07	13.87	13.88	0.01	232.19	SP		
	5/25/2016	246.07	12.15	14.61	2.46	231.46	SP		
	6/2/2016	246.07	12.66	15.01	2.35	231.06	PP	1.3473	
	6/22/2016	246.07	13.09	15.56	2.47	230.51	SP		
	7/28/2016	246.07	14.01	16.96	2.95	229.11	SP	2.0077	
	8/23/2016	246.07	12.64	14.02	1.38	232.05	PP	0.7925	
	9/26/2016	246.07	14.59	16.63	2.04	229.44	PP	1.268	150.0239
MW-43	6/15/2010	238.9		7.94		230.96	--		
	9/21/2010	238.9		10.22		228.68	--		
	12/10/2010	238.9		8.05		230.85	--		
	2/14/2011	238.9		8.24		230.66	--		
	5/26/2011	238.9		5.91		232.99	--		
	8/8/2011	238.9		9.12		229.78	--		
	12/15/2011	238.9		5.66		233.24	--		
	3/21/2012	238.9		7.14		231.76	--		
	6/13/2012	238.9		6.87		232.03	--		
	9/24/2012	238.9		7.73		231.17	--		
	1/11/2013	238.9		6.81		232.09	--		
	5/20/2013	238.9		6.99		231.91	--		
	9/16/2013	238.9		8.81		230.09	--		
	12/23/2013	238.9		6.15		232.75	--		
	3/10/2014	238.9		6.05		232.85	--		
	6/9/2014	238.9		6.5		232.4	--		
	9/15/2014	238.9		7.99		230.91	--		
	12/29/2014	238.9		6.74		232.16	--		
	3/24/2015	238.9		5.94		232.96	--		
	6/23/2015	238.9		5.65		233.25	--		
	9/21/2015	238.9		8.78		230.12	--		
	12/28/2015	238.9		6.06		232.84	--		
	3/23/2016	238.9		6.13		232.77	--		
	6/22/2016	238.9		6.02		232.88	--		
	9/26/2016	238.9		8.07		230.83	--		0
MW-49	7/14/2009	246.02	12.25	13.68	1.43	233.58	--		
	7/16/2009	246.02	13	14.35	1.35	232.84	PP	0.5	
	7/22/2009	246.02	13.98	14.56	0.58	231.96	--		
	8/3/2009	246.02	5.58	5.65	0.07	240.43	--		
	8/18/2009	246.02	12.93	14	1.07	232.95	PS	0.793	
	9/3/2009	246.02	11.43	11.85	0.42	234.54	PS	0.793	
	9/18/2009	246.02	14.62	15.5	0.88	231.29	PP	0.82	
	10/6/2009	246.02	14.91	15.74	0.83	231	PP	0.74	
	10/19/2009	246.02	5.62	5.82	0.2	240.37	PP	0.528	
	11/5/2009	246.02	5.2	5.45	0.25	240.79	PP	1.4	
	11/12/2009	246.02	5.7	5.85	0.15	240.3	PP	0.317	
	12/4/2009	246.02	5.63	5.93	0.3	240.35	PP	0.449	
	12/11/2009	246.02	4.71	5.15	0.44	241.25	--		
	12/16/2009	246.02	4.82	4.85	0.03	241.2	PS	0.502	
	12/29/2009	246.02	4.42	4.44	0.02	241.6	PS	0.238	
	1/20/2010	246.02	4.77	4.78	0.01	241.25	PS	0.04	
	2/16/2010	246.02	4.94	4.95	0.01	241.08	PS	0.013	
	3/1/2010	246.02	4.31	4.33	0.02	241.71	PS	0.005	
	3/8/2010	246.02	4.58	4.59	0.01	241.44	PS	0.003	
	4/5/2010	246.02		4.61		241.41	PS	0.003	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	5/3/2010	246.02	4.93	4.95	0.02	241.09	PS		
	5/11/2010	246.02	5.3	5.33	0.03	240.72	PS	0.013	
	5/26/2010	246.02	4.7	4.72	0.02	241.32	PS	0.159	
	6/15/2010	246.02	10.04	10.25	0.21	235.95	--		
	6/18/2010	246.02	10	10.27	0.27	235.98	PS	0.04	
	7/30/2010	246.02	15.08	15.22	0.14	230.92	PS	0.003	
	9/2/2010	246.02	15.87	16.04	0.17	230.13	PS	0.026	
	9/21/2010	246.02	15.97	16.6	0.63	229.97	PP	0.092	
	10/13/2010	246.02	5.06	5.06	0.01	240.97	--		
	11/4/2010	246.02	10.67	11.18	0.51	235.28	PS	0.001	
	11/12/2010	246.02	8.63	8.71	0.08	237.38	AS	0.013	
	11/19/2010	246.02	9.14	9.29	0.15	236.86	AS	0.053	
	12/3/2010	246.02	5.29	5.52	0.23	240.7	PS	0.502	
	12/10/2010	246.02	8.17	8.18	0.01	237.85	--		
	12/21/2010	246.02	14.09	14.27	0.45	232.14	PP	0.74	
	12/21/2010	246.02	14.09	14.27	0.45	232.14	PS	0.026	
	1/6/2011	246.02	14.86	15.22	0.36	231.11	SP		
	1/28/2011	246.02	14.35	14.36	0.01	231.67	PS	0.026	
	2/14/2011	246.02	14.41	14.79	0.38	231.56	PS		
	2/18/2011	246.02	14.44	14.8	0.36	231.53	PS		
	3/4/2011	246.02	14.2	14.78	0.58	231.74	PP	0.396	
	3/22/2011	246.02	4.84	5.11	0.27	241.14	PS	0.003	
	4/13/2011	246.02	4.97	5.1	0.13	241.03	PS	0.132	
	4/20/2011	246.02	4.38	4.39	0.01	241.64	PS	0.066	
	4/29/2011	246.02	4.49	4.51	0.02	241.53	PS	0.026	
	5/13/2011	246.02	4.93	4.95	0.02	241.09	PS	0.013	
	5/26/2011	246.02	6.38	6.41	0.03	239.64	--		
	6/15/2011	246.02	5.31	5.33	0.02	240.71	PS	0.026	
	7/14/2011	246.02					PS		
	7/21/2011	246.02	12.3	13.1	0.8	233.62	PS	0	
	8/8/2011	246.02	14.95	16.33	1.38	230.89	--		
	8/17/2011	246.02	15.2	16.45	1.25	230.66	PP	0.898	
	8/17/2011	246.02	15.2	16.45	1.25	230.66	PS	0	
	8/24/2011	246.02	15.38	15.45	0.07	230.63	PS	0.793	
	9/1/2011	246.02	14.99	15.08	0.09	231.02	PS	0.793	
	9/14/2011	246.02	4.73	5.1	0.37	241.24	PS	0.793	
	10/6/2011	246.02	4.71	4.76	0.05	241.3	PP	0.396	
	10/25/2011	246.02	4.7	4.71	0.1	241.4	PS	0.066	
	11/15/2011	246.02	5.65	5.9	0.25	240.34	PS	0.026	
	12/8/2011	246.02	4.82	4.93	0.11	241.19	PS	0.793	
	12/15/2011	246.02	5.93	5.94	0.01	240.09	--		
	12/21/2011	246.02	5.44	5.59	0.15	240.56	PS	0.132	
	1/6/2012	246.02	5.88	6.05	0.17	240.12	PS	0.66	
	1/27/2012	246.02	10.84	12.44	1.6	234.97	PS	0.026	
	2/7/2012	246.02	13.43	13.88	0.45	232.53	PS	0.528	
	2/28/2012	246.02	14.12	14.17	0.05	231.89	PS	0.7	
	3/3/2012	246.02	12.58	13.1	0.52	233.37	PS	0.132	
	3/21/2012	246.02	14.33	14.35	0.02	231.69	--		
	3/27/2012	246.02	13.78	13.82	0.04	232.23	PS	0.449	
	4/13/2012	246.02	14.71	14.72	0.01	231.31	PS	0.185	
	4/27/2012	246.02	14.8	14.81	0.01	231.22	PS	0.059	
	5/11/2012	246.02	14.11	14.12	0.01	231.91	PS	0.003	
	5/25/2012	246.02		7.15		238.87	PS	0.003	
	6/7/2012	246.02	5.81	5.94	0.13	240.19	PS	0.476	
	6/13/2012	246.02	6.7	6.71	0.01	239.32	PS	0.476	
	6/21/2012	246.02	10.4	11.46	1.06	235.48	PS	0.001	
	7/3/2012	246.02	13.85	14.35	0.5	232.11	PS	0.766	
	7/18/2012	246.02	14.23	16.1	1.87	231.55	PS	0.502	
	8/1/2012	246.02	13.22	14.03	0.81	232.69	PS	0.008	
	8/16/2012	246.02	14.4	16	1.6	231.41	PS	0.74	
	9/7/2012	246.02	15.05	16.97	1.92	230.72	PS	0.476	
	9/24/2012	246.02	7.05	7.06	0.01	238.97	PS		
	10/8/2012	246.02	6.9	6.91	0.01	239.12	PS	0.008	
	10/24/2012	246.02	9.82	9.88	0.06	236.19	PS	0.013	
	11/19/2012	246.02	4.82	5.12	0.3	241.16	PS		
	12/14/2012	246.02	13.69	14.1	0.41	232.28	PS	0.277	
	1/7/2013	246.02	10.56	11.33	0.77	235.36	PS	0.013	
	1/11/2013	246.02	12.57	12.85	0.28	233.41	--		
	1/24/2013	246.02	12.88	13.41	0.53	233.07	PP	0.33	
	1/25/2013	246.02	13.02	13.24	0.22	232.97	PP	0.132	
	2/6/2013	246.02	4.91	5.15	0.24	241.08	PS	0.007	
	3/1/2013	246.02	11.12	11.43	0.31	234.86	PS	0.211	
	3/15/2013	246.02	9.19	9.58	0.39	236.78	PS	0.013	
	3/29/2013	246.02	13.03	13.13	0.1	232.98	PS	0.092	
	4/11/2013	246.02	14.14	14.15	0.01	231.88	PS	0.066	
	4/26/2013	246.02	14.43	14.44	0.01	231.59	PS	0.159	
	5/13/2013	246.02		13.3		232.72	PS	0.013	
	5/20/2013	246.02	13.81	13.82		232.2	--		
	5/24/2013	246.02	12.65	12.66	0.01	233.37	PS	0.165	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/10/2013	246.02	9.22	9.25	0.03	236.8	PS	0.02	
	8/2/2013	246.02		13.64		232.38	AS	0	
	9/4/2013	246.02	14.32	16.48	2.16	231.42	AS	0.383	
	9/12/2013	246.02	14.46	16.32	1.86	231.32	PP	2.021	
	9/16/2013	246.02	14.83	15.38	0.55	231.12	AS		
	10/30/2013	246.02	11.33	11.61	0	234.41	AS	0.159	
	11/21/2013	246.02	14.73	14.81	0	231.21	AS	0.33	
	12/19/2013	246.02	5.65	5.68	0	240.34	AS	1.189	
	12/23/2013	246.02	5.38	5.39	0	240.63	PS	0.687	
	1/15/2014	246.02	4.99	5.39	0.4	240.98	PS	0.053	
	2/18/2014	246.02	5.2	5.28	0.08	240.81	PS	0.291	
	2/18/2014	246.02					PP	1.004	
	3/10/2014	246.02	6.25	6.35	0.1	239.76	PS	0.687	
	3/11/2014	246.02	6.25	6.35	0.1	239.76	AS	0.793	
	4/2/2014	246.02	5.08	5.49	0.41	240.89	PS	0.079	
	4/28/2014	246.02	12.21	14.45	2.24	233.52	PS	0.793	
	4/28/2014	246.02					PP	2.074	
	6/5/2014	246.02	5.11	6.1	0.99	240.78	PS	0.053	
	6/9/2014	246.02	5.8	5.85	0.05	240.21	-		
	6/25/2014	246.02					PP	0.269	
	6/25/2014	246.02	4.79	6.45	1.66	241.01	PS	0.092	
	7/17/2014	246.02	4.85	5.3	0.45	241.11	PS	0.357	
	8/7/2014	246.02	13.1	13.56	0.46	232.86	PS	0.581	
	9/15/2014	246.02	14.03	15.7	1.67	231.77	--		
	9/25/2014	246.02	15.08	16.34	1.26	230.78	PP	0.528	
	9/25/2014	246.02	15.08	16.34	1.26	230.78	PS	0.026	
	10/2/2014	246.02	15.42	16.72	1.3	230.43	PS	1.559	
	10/30/2014	246.02	14.97	15.3	0.33	231.01	PS	0.033	
	11/25/2014	246.02	15.99	16.31	0.32	229.99	PS	0.476	
	12/23/2014	246.02	14.17	14.68	0.51	231.78	PP	0.793	
	12/29/2014	246.02	12.72	13.42	0.7	233.21	PS	0.198	
	1/16/2015	246.02					--		
	2/13/2015	246.02	14.58	14.83	0.25	231.19	PS	0.033	
	3/24/2015	246.02	9.52	10.01	0.49	236.01	PP	0.4887	
	3/24/2015	246.02	9.52	10.01	0.49	236.01	PS	0.0132	
	4/15/2015	246.02	13.96	14.1	0.14	231.92	PS	0.0396	
	5/15/2015	246.02	14.48	15.69	1.21	230.33	PS	0.0925	
	6/23/2015	246.02	5.09	6.16	1.07	239.86	PS	0.2906	
	6/23/2015	246.02	5.09	6.16	1.07	239.86	PP	0.5614	
	7/30/2015	246.02	13.39	13.93	0.54	232.09	PS	0.793	
	8/24/2015	246.02	9.47	10.55	1.08	235.47	PS		
	8/24/2015	246.02	9.47	10.55	1.08	235.47	PP	1.493	
	9/21/2015	246.02	14.9	15.63	0.73	230.39	PS	0.74	
	9/21/2015	246.02	14.9	15.63	0.73	230.39	PP	0.469	
	10/27/2015	246.02	14.15	14.37	0.22	231.65	PS	0.3434	
	11/23/2015	246.02	12.49	13.12	0.63	232.9	PS	0.4359	
	12/28/2015	246.02		8.69		237.33	PS	0.0396	
	2/5/2016	246.02	4.15	5	0.85	241.02	PS	0.0106	
	2/5/2016	246.02	4.15	5	0.85	241.02	PP	0.6208	
	2/18/2016	246.02	4.34	4.35	0.01	241.67	PS	0.2378	
	3/23/2016	246.02	6.51	6.52	0.01	239.5	PS	0.066	
	4/27/2016	246.02		13.76		232.26	PS		
	5/25/2016	246.02	4.86	4.99	0.13	241.03	PS	0.0026	
	6/22/2016	246.02	5.5	6.04	0.54	239.98	PS		
	7/28/2016	246.02	11.84	12.78	0.94	233.24	PS	0.2906	
	8/23/2016	246.02	4.66	5.31	0.65	240.71	PS	0.0066	
	9/26/2016	246.02	14.27	14.33	0.06	231.69	PS	0.7133	45.1882
MW-50	6/15/2010	245.53		13.23		232.3	--		
	9/21/2010	245.53		15.88		229.65	--		
	12/10/2010	245.53		13.81		231.72	--		
	2/14/2011	245.53		14.44		231.09	--		
	5/26/2011	245.53		12.04		233.49	--		
	8/8/2011	245.53		14.16		231.37	--		
	12/15/2011	245.53		12.09		233.44	--		
	3/21/2012	245.53		12.94		232.59	--		
	6/13/2012	245.53		12.66		232.87	--		
	9/24/2012	245.53		13.4		232.13	--		
	1/11/2013	245.53		12.98		232.55	--		
	5/20/2013	245.53		13.07		232.46	--		
	9/16/2013	245.53		13.92		231.61	--		
	12/23/2013	245.53		12.7		232.83	--		
	3/10/2014	245.53		12.6		232.93	--		
	6/9/2014	245.53		12.38		233.15	--		
	9/15/2014	245.53		13.5		232.03	--		
	12/29/2014	245.53		13.18		232.35	--		
	3/24/2015	245.53		12.56		232.97	--		
	6/23/2015	245.53		12.58		232.95	--		
	9/21/2015	245.53		14.16		231.37	--		
	12/28/2015	245.53		13.01		232.52	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/23/2016	245.53		12.4		233.13	--		
	6/22/2016	245.53		12.66		232.87	--		
	9/26/2016	245.53		13.49		232.04	--		0
MW-51	6/15/2010	249.34		13.63		235.71	--		
	9/21/2010	249.34		15.75		233.59	--		
	12/10/2010	249.34		14.08		235.26	--		
	2/14/2011	249.34		14.04		235.3	--		
	5/26/2011	249.34		11.03		238.31	--		
	8/8/2011	249.34		14.74		234.6	--		
	12/15/2011	249.34		11.39		237.95	--		
	3/20/2012	249.34		13.3		236.04	--		
	6/13/2012	249.34		13.12		236.22	--		
	9/24/2012	249.34		13.96		235.38	--		
	1/11/2013	249.34		13.15		236.19	--		
	3/15/2013	249.34		10.93		238.41	--		
	5/20/2013	249.34		13.42		235.92	--		
	9/16/2013	249.34		14.6		234.74	--		
	12/23/2013	249.34		11		238.34	--		
	3/10/2014	249.34		11.59		237.75	--		
	6/9/2014	249.34		12.04		237.3	--		
	9/15/2014	249.34		13.61		235.73	--		
	12/29/2014	249.34		12.72		236.62	--		
	3/24/2015	249.34		11.29		238.05	--		
	6/23/2015	249.34		11.03		238.31	--		
	9/21/2015	249.34		14.38		234.96	--		
	12/28/2015	249.34		10.85		238.49	--		
	3/23/2016	249.34		11.56		237.78	--		
	6/22/2016	249.34		11.53		237.81	--		
	9/26/2016	249.34		13.73		235.61	--		0
MW-52	6/15/2010	247		10.68		236.32	--		
	9/21/2010	247		12.63		234.37	--		
	12/10/2010	247		10.78		236.22	--		
	2/14/2011	247		10.72		236.28	--		
	5/26/2011	247		9.59		237.41	--		
	8/8/2011	247		11.46		235.54	--		
	12/15/2011	247					--		
	3/20/2012	247		10.6		236.4	--		
	6/13/2012	247		10.47		236.53	--		
	9/24/2012	247		10.65		236.35	--		
	1/11/2013	247		10.45		236.55	--		
	3/15/2013	247		9.64		237.36	--		
	5/20/2013	247		10.64		236.36	--		
	9/16/2013	247		11.22		235.78	--		
	12/23/2013	247		12.02		234.98	--		
	3/10/2014	247		9.73		237.27	--		
	6/9/2014	247		10.12		236.88	--		
	9/15/2014	247		10.68		236.32	--		
	12/29/2014	247		10.13		236.87	--		
	3/24/2015	247		9.51		237.49	--		
	6/23/2015	247		9.2		237.8	--		
	9/21/2015	247		11.24		235.76	--		
	12/28/2015	247		9.44		237.56	--		
	3/23/2016	247		9.84		237.16	--		
	6/22/2016	247		9.92		237.08	--		
	9/26/2016	247		12.81		234.19	--		0
MW-53	7/14/2009	246.1	14.3	16.75	2.45	231.48	--		
	8/3/2009	246.1	14.25	14.6	0.35	231.8	SP	6	
	8/18/2009	246.1	14.95	16.35	1.4	230.97	SP	6.948	
	8/20/2009	246.1	15.12	15.64	0.52	230.91	SP	1.159	
	9/3/2009	246.1	15	15.38	0.32	231	SP	2.702	
	9/8/2009	246.1					SP	0.579	
	9/9/2009	246.1	15.24	15.86	0.62	230.78	--		
	9/18/2009	246.1	15.42	15.98	0.56	230.61	SP	2.2	
	10/6/2009	246.1	15.56	16.32	0.76	230.44	SP	5.02	
	10/19/2009	246.1	14.92	15.15	0.23	231.15	SP	5.7	
	11/5/2009	246.1	14.16	14.34	0.18	231.92	SP	0.58	
	11/12/2009	246.1	14.03	15.42	1.39	231.89	SP	7.92	
	12/4/2009	246.1	13.98	14.8	0.82	232.01	SP	4.63	
	12/11/2009	246.1	12.84	12.94	0.1	233.25	SP	0.97	
	12/16/2009	246.1	12.9	13	0.1	233.19	SP		
	12/29/2009	246.1	12.1	13.49	1.39	233.82	PP	0.449	
	1/20/2010	246.1	13.05	15.57	2.52	232.72	PP	0.845	
	2/16/2010	246.1	12.74	15.55	2.81	232.99	PP	1.004	
	3/1/2010	246.1	11.85	14.28	2.43	233.93	PP	0.608	
	3/8/2010	246.1	11.95	14.9	2.95	233.77	--		
	4/5/2010	246.1	12	15.47	3.47	233.65	PP	1.057	
	5/3/2010	246.1	12.76	15.6	2.84	232.97	PP	0.925	
	5/26/2010	246.1	12.52	14.2	1.68	233.36	PP	0.449	
	6/15/2010	246.1	13.96	17.06	3.1	231.74	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/18/2010	246.1	13.95	16.98	3.03	231.76	PP	0.634	
	7/30/2010	246.1	15.36	17.99	2.63	230.4	PP	0.819	
	9/2/2010	246.1	16.13	18.26	2.13	229.69	--		
	9/9/2010	246.1	16.37	18.46	2.09	229.46	SP	3.28	
	9/21/2010	246.1	16.37	18.53	2.16	229.45	SP		
	10/13/2010	246.1	15.48	16.05	0.57	230.55	SP	1.545	
	11/4/2010	246.1	15.2	15.23	0.03	230.9	SP	4.246	
	11/12/2010	246.1	15.24	16.77	1.53	230.66	SP	1.158	
	12/3/2010	246.1	14.29	14.33	0.04	231.8	SP	3.763	
	12/10/2010	246.1	14.5	14.96	0.46	231.54	--		
	12/21/2010	246.1	14.11	14.15	0.04	231.98	SP	0.869	
	1/6/2011	246.1	15.1	16.93	1.83	230.76	SP	0.965	
	1/28/2011	246.1	15.89	17.94	2.05	229.94	SP	0.869	
	2/14/2011	246.1	14.94	15.91	0.97	231.03	--		
	2/18/2011	246.1	14.95	15.26	0.31	231.11	SP	2.509	
	3/4/2011	246.1	14.65	14.8	0.15	231.43	SP	2.702	
	3/22/2011	246.1	13.1	13.2	0.1	232.99	SP	1.351	
	4/13/2011	246.1	13.04	14.42	1.38	232.88	SP	0.386	
	4/20/2011	246.1	11.51	11.73	0.22	234.56	SP	0.579	
	4/29/2011	246.1	12.12	13.44	1.32	233.81	SP	0.097	
	5/13/2011	246.1	13.03	15.33	2.3	232.77	SP	0.869	
	5/20/2011	246.1	10.88	11	0.12	235.2	SP	1.641	
	5/26/2011	246.1	13.91	14.23	0.32	232.15	--		
	6/9/2011	246.1	13.72	13.93	0.21	232.35	SP	1.641	
	6/15/2011	246.1	13.93	15.62	1.69	231.95	SP	0.097	
	7/14/2011	246.1	14.74	16.65	1.91	231.11	SP	2.123	
	7/29/2011	246.1					SP	1.255	
	8/8/2011	246.1	15.56	18.4	2.84	230.17	--		
	8/17/2011	246.1	15.87	16.25	0.38	230.18	SP	3.378	
	8/24/2011	246.1	15.79	17.62	1.83	230.07	SP	0.386	
	9/1/2011	246.1	15.91	17.9	1.99	229.93	SP	0	
	9/14/2011	246.1		14.35		231.75	SP	0.193	
	10/6/2011	246.1	13.75	13.91	0.16	232.33	SP	0.29	
	10/25/2011	246.1	13.2	14.52	1.32	232.73	SP	0.097	
	11/15/2011	246.1	13.9	15.48	1.58	231.99	SP	3.185	
	12/8/2011	246.1	12.89	13.55	0.66	233.12	SP	1.351	
	12/15/2011	246.1	12.23	13.48	1.25	233.71	--		
	12/21/2011	246.1	12.97	15.1	2.13	232.85	SP	0.386	
	1/6/2012	246.1	13.22	14.67	1.45	232.69	SP	0.579	
	1/27/2012	246.1	13.02	15.16	2.14	232.8	SP	3.281	
	2/7/2012	246.1	13.95	14.16	0.21	232.12	SP	3.11	
	2/28/2012	246.1	14.33	16.28	1.95	231.52	SP	0	
	3/3/2012	246.1	13.23	14.65	1.42	232.69	SP	0.94	
	3/21/2012	246.1	14.29	15.1	0.81	231.7	--		
	3/27/2012	246.1	14.16	15.84	1.68	231.72	SP	0.865	
	4/13/2012	246.1	14.69	16.5	1.81	231.17	SP	1.641	
	4/27/2012	246.1	14.63	15.9	1.27	231.3	SP	0.97	
	5/11/2012	246.1	14.59	14.82	0.23	231.48	SP	0.3	
	5/25/2012	246.1	13.74	13.77	0.03	232.36	SP	0.48	
	6/7/2012	246.1	13.29	13.73	0.44	232.75	SP	0.29	
	6/13/2012	246.1	13.82	14.35	0.53	232.21	SP		
	6/21/2012	246.1	13.9	15.44	1.54	232	SP	0.579	
	7/3/2012	246.1	14.66	16.17	1.51	231.24	SP	1.158	
	7/18/2012	246.1	14.93	16.35	1.42	230.99	SP	0.772	
	8/1/2012	246.1	14.75	16.2	1.45	231.16	SP	0.579	
	8/16/2012	246.1	15.33	15.45	0.12	230.75	SP	1.737	
	9/7/2012	246.1	15.5	17.33	1.83	230.36	SP	0.579	
	9/24/2012	246.1	14.44	14.61	0.17	231.64	SP		
	10/8/2012	246.1	14.37	14.45	0.08	231.72	SP	1.062	
	10/24/2012	246.1		14.62		231.48	SP	0.965	
	11/19/2012	246.1	13.11	13.6	0.49	232.93	SP	0.242	
	12/14/2012	246.1	14.44	15.45	1.01	231.53	SP	3.667	
	1/7/2013	246.1	13.65	14.78	1.13	232.3	SP	2.413	
	1/11/2013	246.1	13.58	14.4	0.82	232.41	--		
	1/23/2013	246.1	13.28	14.7	1.42	232.64	PP	0.132	
	1/24/2013	246.1	13.35	14.69	1.34	232.58	PP	0.119	
	2/6/2013	246.1	12.58	13.41	0.83	233.41	SP		
	3/1/2013	246.1	13.04	14.25	1.21	232.9	SP	0.579	
	3/15/2013	246.1	12.45	12.46	0.01	233.65	SP	1.48	
	3/29/2013	246.1	13.4	14.49	1.09	232.56	SP	0.386	
	4/11/2013	246.1	13.96	14.94	0.98	232.01	SP	0.965	
	4/26/2013	246.1	14.42	14.94	0.52	231.61	SP	0.901	
	5/13/2013	246.1	13.7	13.72	0.02	232.4	SP	0.643	
	5/20/2013	246.1	13.7	15.9	2.2	232.11	--		
	5/24/2013	246.1	13.51	13.58	0.07	232.58	SP	0.322	
	6/10/2013	246.1		14.11		231.99	AS	0.238	
	6/10/2013	246.1	12.85	14.11	1.26	233.09	SP	1.158	
	8/2/2013	246.1	14.32	14.39	0.07	231.77	SP		
	9/4/2013	246.1	14.97	16.56	1.59	230.92	SP	2.027	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/16/2013	246.1	15.22	17.02	1.8	230.65	SP		
	10/30/2013	246.1	14.24	14.9	1	232.07	SP	2.027	
	11/21/2013	246.1	15.17	16.34	1	230.63	PP	1.4	
	12/19/2013	246.1	13.07	13.24	0	232.86	SP	1.255	
	12/23/2013	246.1	13.07	13.76	1	233.21	--		
	1/15/2014	246.1	12.36	13.46	1.1	233.6	SP	1.93	
	2/18/2014	246.1	12.53	14.38	1.85	233.33	SP	0.193	
	3/10/2014	246.1	12.41	14.9	2.49	233.37	--		
	4/2/2014	246.1	12.29	12.31	0.02	233.81	PS		
	4/28/2014	246.1	13.39	13.61	0.22	232.68	SP		
	6/5/2014	246.1	12.65	15.15	2.5	233.13	SP	0.29	
	6/5/2014	246.1					AS	0.581	
	6/9/2014	246.1	13.14	14.38	1.24	232.8	AS	0.357	
	6/25/2014	246.1	12.46	12.65	0.19	233.62	SP	1.641	
	7/17/2014	246.1	12.45	13.24	0.79	233.55	SP	0.711	
	7/17/2014	246.1	12.45	13.24	0.79	233.55	PP	0.33	
	8/7/2014	246.1	14.08	15.63	1.55	231.82	SP	1.062	
	8/7/2014	246.1	14.08	15.63	1.55	231.82	PP	0.925	
	9/15/2014	246.1	14.95	16.24	1.29	230.98	--		
	9/25/2014	246.1	15.01	16.79	1.78	230.86	PP	0.423	
	9/25/2014	246.1	15.01	16.79	1.78	230.86	SP	0.483	
	10/2/2014	246.1	14.92	16.33	1.41	231	PP	0.462	
	10/30/2014	246.1	14.8	15.41	0.61	231.22	SP	1.062	
	10/30/2014	246.1	14.8	15.41	0.61	231.22	PP	0.272	
	11/25/2014	246.1	15.51	15.52	0.01	230.59	SP	0.836	
	12/23/2014	246.1	14.24	14.38	0.14	231.84	SP	2.38	
	12/29/2014	246.1	13.78	13.89	0.11	232.31	--		
	1/16/2015	246.1	13.54	14.5	0.96	231.6	PP	0.5614	
	1/16/2015	246.1	13.54	14.5	0.96	231.6	SP	0.1286	
	2/13/2015	246.1	14.38	16.12	1.74	229.98	PP	0.6736	
	2/13/2015	246.1	14.38	16.12	1.74	229.98	SP	0	
	3/24/2015	246.1	12.88	14.11	1.23	231.99	PP	0.5151	
	3/24/2015	246.1	12.88	14.11	1.23	231.99	SP	0.193	
	4/15/2015	246.1	13.92	13.97	0.05	232.13	SP	2.6055	
	5/15/2015	246.1	14.09	15.05	0.96	231.05	SP	1.4475	
	5/15/2015	246.1	14.09	15.05	0.96	231.05	PP	0.2378	
	6/23/2015	246.1	12.35	13.6	1.25	232.5	SP	0.0965	
	6/23/2015	246.1	12.35	13.6	1.25	232.5	PP	0.3963	
	7/30/2015	246.1	14.08	15.28	1.2	230.82	SP	2.509	
	7/30/2015	246.1	14.08	15.28	1.2	230.82	PP	0.291	
	8/24/2015	246.1	14.38	14.63	0.25	231.47	SP	1.93	
	8/24/2015	246.1	14.38	14.63	0.25	231.47	PP	0.238	
	9/21/2015	246.1	15.51	15.7	0.19	230.4	SP		
	10/27/2015	246.1	14.59	15.35	0.76	230.75	SP	0.0965	
	11/23/2015	246.1	14.45	14.61	0.16	231.49	SP	0.4825	
	12/28/2015	246.1	13.09	13.37	0.28	232.73	SP	1.0615	
	2/5/2016	246.1	11.29	12.48	1.19	233.62	SP	0	
	2/5/2016	246.1	11.24	12.48	1.24	233.62	PP	0.1717	
	2/18/2016	246.1	12.11	13.33	1.22	232.77	SP	0.0965	
	2/18/2016	246.1	12.11	13.33	1.22	232.77	PP	0.2642	
	3/23/2016	246.1	12.79	14.65	1.86	231.45	SP	0.6755	
	3/23/2016	246.1	12.79	14.65	1.86	231.45	PP	0.4953	
	4/27/2016	246.1	13.95	14.89	0.94	231.21	PP	1.519	
	5/25/2016	246.1	11.97	14.66	2.69	231.44	SP		
	6/2/2016	246.1	12.58	15.41	2.83	230.69	PP	0.5416	
	6/22/2016	246.1	13.34	15.09	1.75	231.01	SP		
	7/28/2016	246.1	14.22	16.63	2.41	229.47	PP	0.7925	
	8/23/2016	246.1	12.73	14.25	1.52	231.85	PP	0.317	
	9/26/2016	246.1	14.85	16.7	1.85	229.4	PP	0.7133	165.2384
MW-54	7/14/2009	245.6	13.78	16.67	2.91	231.46	--		
	7/16/2009	245.6	13.73	16.48	2.75	231.51	PP	1.427	
	8/3/2009	245.6	13.42	14.55	1.13	232.03	PP	0.594	
	8/18/2009	245.6	14.14	16.62	2.48	231.14	PP	1.374	
	9/3/2009	245.6	14.16	16.05	1.89	231.19	PP	0.713	
	9/18/2009	245.6	14.6	16.59	1.99	230.74	PP	0.845	
	10/6/2009	245.6	14.86	16.81	1.95	230.49	PP	0.77	
	10/19/2009	245.6	14.27	15.45	1.18	231.18	PP	0.185	
	11/5/2009	245.6	13.43	13.85	0.42	232.12	PP	0.079	
	11/12/2009	245.6	13.51	14.78	1.27	231.92	PP	0.581	
	12/4/2009	245.6	13.2	14.95	1.75	232.17	PP	1.057	
	12/11/2009	245.6	12.32	12.76	0.44	233.22	--		
	12/16/2009	245.6	12.39	12.58	0.46	233.42	PS	0.12	
	12/29/2009	245.6	11.76	12.85	1.09	233.7	PS	0.396	
	1/20/2010	245.6	12.75	15.45	2.7	232.5	PS	0.264	
	2/16/2010	245.6	12.7	14.1	1.4	232.72	PS	1.057	
	3/1/2010	245.6	11.63	13.73	2.1	233.7	PS	0.67	
	3/8/2010	245.6	11.73	13.1	1.37	233.69	--		
	4/5/2010	245.6	11.05	14.85	3.8	234.06	PS	0.793	
	5/3/2010	245.6	12.72	14.9	2.18	232.6	ps	0.528	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	5/11/2010	245.6	13.58	15.81	2.23	231.73	PS	0.264	
	5/26/2010	245.6	12.12	13.3	1.18	233.33	PS	0.132	
	6/15/2010	245.6	14.12	16.4	2.28	231.18	--		
	6/18/2010	245.6	14.09	16.31	2.22	231.22	PS	0.555	
	7/30/2010	245.6	15.08	15.89	0.81	230.41	PS	0.132	
	9/2/2010	245.6	16.24	17.33	1.09	229.22	--		
	9/21/2010	245.6	15.9	16.89	0.99	229.57	SP		
	10/13/2010	245.6	14.68	16	1.32	230.75	--		
	11/4/2010	245.6	14.48	15.99	1.54	230.95	SP		
	11/12/2010	245.6	14.58	16.1	1.52	230.82	--		
	12/3/2010	245.6	13.81	14.07	0.26	231.76	SP	3.764	
	12/10/2010	245.6	14.11	14.39	0.28	231.45	--		
	12/21/2010	245.6					SP	0.868	
	1/6/2011	245.6	14.64	16.14	1.5	230.77	PP	0.872	
	1/6/2011	245.6	14.64	16.14	1.5	230.77	SP	0.965	
	1/28/2011	245.6	15.45	16.77	1.32	229.98	SP	0.868	
	2/14/2011	245.6	14.48	15.78	1.3	230.95	--		
	2/18/2011	245.6	14.41	15.76	1.35	231.01	SP	2.509	
	3/4/2011	245.6	14.13	14.47	0.34	231.43	SP	2.702	
	3/22/2011	245.6		12.68		232.92	--		
	4/13/2011	245.6	12.69	13.2	0.51	232.84	SP	0.386	
	4/20/2011	245.6	11.13	11.19	0.06	234.46	SP	0.579	
	4/29/2011	245.6	11.8	12.02	0.22	233.77	SP	0.096	
	5/13/2011	245.6	12.72	13.92	1.2	232.72	SP	0.868	
	5/20/2011	245.6	10.44	10.45	0.01	235.16	SP	1.64	
	5/26/2011	245.6	13.86	14.88	1.02	231.61	--		
	6/9/2011	245.6	13.22	14.15	0.93	232.26	SP	1.64	
	6/15/2011	245.6	13.54	15.09	1.55	231.86	SP	0.096	
	7/14/2011	245.6	14.4	14.65	0.25	231.17	SP	2.123	
	7/29/2011	245.6					SP	1.254	
	8/8/2011	245.6	15.2	16.32	1.12	230.25	--		
	8/17/2011	245.6	15.25	16.48	1.23	230.19	SP	3.377	
	8/24/2011	245.6	15.34	16.56	1.22	230.1	SP	0.386	
	9/1/2011	245.6	15.42	16.52	1.1	230.04	SP	0	
	9/14/2011	245.6		13.89		231.71	SP	0.193	
	10/6/2011	245.6	13.11	13.89	0.78	232.39	SP	0.289	
	10/25/2011	245.6	12.81	13.61	0.8	232.69	SP	0.096	
	11/15/2011	245.6	13.63	13.83	0.2	231.94	SP	3.184	
	12/8/2011	245.6	12.43	12.99	0.56	233.1	SP	1.351	
	12/15/2011	245.6	12.04	12.21	0.17	233.54	--		
	12/21/2011	245.6	12.68	13.98	1.3	232.75	SP	0.386	
	1/6/2012	245.6	12.88	13.32	0.44	232.66	SP	0.579	
	1/27/2012	245.6	12.7	13.94	1.24	232.74	SP	3.281	
	2/7/2012	245.6	13.35	14.3	0.95	232.13	SP	3.11	
	2/28/2012	245.6	13.97	15.55	1.58	231.42	SP	0	
	3/3/2012	245.6	12.94	12.98	0.04	232.65	SP	0.94	
	3/21/2012	245.6	13.8	14.95	1.15	231.65	--		
	3/27/2012	245.6	13.76	14.72	0.96	231.72	SP	0.865	
	4/13/2012	245.6	14.36	14.95	0.59	231.16	SP	1.641	
	4/27/2012	245.6	14.15	15.34	1.19	231.3	SP	0.97	
	5/11/2012	245.6	14.05	14.86	0.81	231.44	SP	0.3	
	5/25/2012	245.6	13.27	13.34	0.07	232.32	SP	0.48	
	6/7/2012	245.6	12.87	12.88	0.01	232.73	SP	0.29	
	6/13/2012	245.6	13.33	13.43	0.1	232.26	SP		
	6/21/2012	245.6	13.73	14.73	1	231.74	SP	0.579	
	7/3/2012	245.6	14.23	14.24	0.01	231.37	SP	1.158	
	7/18/2012	245.6	14.55	15.57	1.02	230.92	SP	0.772	
	8/1/2012	245.6	14.32	15.6	1.28	231.11	SP	0.579	
	8/16/2012	245.6	14.95	15.05	0.1	230.64	SP	1.737	
	9/7/2012	245.6	15.14	16.53	1.39	230.28	SP	0.579	
	9/24/2012	245.6	14.3	14.42	0.12	231.28	SP		
	10/8/2012	245.6	13.91	13.98	0.07	231.68	SP	1.062	
	10/24/2012	245.6	13.86	13.88	0.02	231.74	SP	0.965	
	11/19/2012	245.6	12.77	12.93	0.16	232.81	SP	0.242	
	12/14/2012	245.6	13.92	14.85	0.93	231.56	SP	3.667	
	1/7/2013	245.6	13.3	13.31	0.01	232.3	SP	2.413	
	1/11/2013	245.6	13.19	13.2	0.01	232.41	--		
	1/23/2013	245.6	12.95	13.34	0.39	232.6	PP	0.041	
	2/6/2013	245.6	12.14	12.53	0.39	233.41	SP		
	3/1/2013	245.6	12.65	12.77	0.12	232.93	SP	0.579	
	3/15/2013	245.6	12.65	12.77	0.12	232.93	SP	1.48	
	3/29/2013	245.6	13	13.38	0.38	232.55	SP	0.386	
	4/11/2013	245.6	13.41	14.46	1.05	232.05	SP	0.965	
	4/26/2013	245.6	13.81	15.14	1.33	231.62	SP	0.901	
	5/13/2013	245.6		13.2		232.4	SP	0.643	
	5/20/2013	245.6	13.78	14.62	0.84	231.71	--		
	5/24/2013	245.6	13.03	13.19	0.16	232.55	SP	0.322	
	6/10/2013	245.6		12.93		232.67	AS	0.106	
	6/10/2013	245.6	12.59	12.93	0.34	232.97	SP	1.158	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	8/2/2013	245.6	13.89	13.92	0.03	231.71	SP		
	9/4/2013	245.6	14.56	16.19	1.63	230.83	SP	2.027	
	9/16/2013	245.6	14.78	15.41	0.63	230.74	SP		
	10/30/2013	245.6	13.78	14.65	1	231.82	SP	2.027	
	11/21/2013	245.6	14.73	16.11	1	230.36	PP	2.378	
	12/19/2013	245.6	12.51	13.11	1	233.36	PP	0.391	
	12/19/2013	245.6	12.51	13.11	1	233.36	SP	1.255	
	12/23/2013	245.6	12.63	13.31	1	233.16	--		
	1/15/2014	245.6	12.19	14.08	1.89	233.16	SP	1.93	
	2/18/2014	245.6	12.18	13.42	1.24	233.26	SP	0.193	
	3/10/2014	245.6	12.43	15	2.57	232.84	--		
	4/2/2014	245.6	11.57	13.36	1.79	233.8	PS		
	4/28/2014	245.6	12.7	14.79	2.09	232.63	SP		
	6/5/2014	245.6	12.18	15.22	3.04	233.02	SP	0.29	
	6/5/2014	245.6					AS	1.057	
	6/9/2014	245.6	12.62	14.64	2.02	232.72	AS	0.753	
	6/25/2014	245.6	12.07	12.45	0.38	233.48	SP	1.641	
	7/17/2014	245.6	12.05	12.2	0.15	233.53	SP	0.711	
	8/7/2014	245.6	13.65	14.39	0.74	231.85	PP	0.231	
	8/7/2014	245.6	13.65	14.39	0.74	231.85	SP	1.062	
	9/15/2014	245.6	14	15.81	1.81	231.36	--		
	9/25/2014	245.6	14.43	15.62	1.19	231.02	SP	0.483	
	9/25/2014	245.6	14.43	15.62	1.19	231.02	PP	0.211	
	10/2/2014	245.6	14.48	15.43	0.95	231	PP	0.211	
	10/30/2014	245.6	14.37	15.21	0.84	231.12	SP	1.062	
	10/30/2014	245.6	14.37	15.21	0.84	231.12	PP	0.312	
	11/25/2014	245.6	14.91	15.72	0.81	230.58	SP	0.836	
	12/23/2014	245.6	13.74	13.8	0.06	231.85	SP	2.38	
	12/29/2014	245.6	13.29	13.32	0.03	232.31	--		
	1/16/2015	245.6	13.14	13.9	0.76	231.7	PP	0.317	
	1/16/2015	245.6	13.14	13.9	0.76	231.7	SP	0.1286	
	2/13/2015	245.6	13.19	14.92	1.73	230.68	PP	0.5548	
	2/13/2015	245.6	13.19	14.92	1.73	230.68	SP	0	
	3/24/2015	245.6	12.21	13.11	0.9	232.49	PP	0.317	
	3/24/2015	245.6	12.21	13.11	0.9	232.49	SP	0.193	
	4/15/2015	245.6	13.22	14.7	1.48	230.9	SP	2.6055	
	4/15/2015	245.6	13.22	14.7	1.48	230.9	PP	0.3963	
	5/15/2015	245.6	13.8	14.7	0.9	230.9	SP	1.4475	
	5/15/2015	245.6	13.8	14.7	0.9	230.9	PP	0.3883	
	6/23/2015	245.6	12.92	13.3	0.38	232.3	SP	0.0965	
	7/30/2015	245.6	13.85	14.9	1.05	230.7	SP	2.509	
	7/30/2015	245.6	13.85	14.9	1.05	230.7	--	0.37	
	8/24/2015	245.6	13.92	14.7	0.78	230.9	SP	1.93	
	8/24/2015	245.6	13.92	14.7	0.78	230.9	PP	0.079	
	9/21/2015	245.6	15.07	16	0.93	229.6	SP		
	9/21/2015	245.6	15.07	16	0.93	229.6	PP	0.52	
	10/27/2015	245.6	14.22	14.79	0.57	230.81	SP	0.0965	
	11/23/2015	245.6	13.58	14.14	0.56	231.46	SP	0.4825	
	12/28/2015	245.6	12.52	12.96	0.44	232.64	SP	1.0615	
	2/5/2016	245.6	10.89	11.45	0.56	234.15	SP	0	
	2/5/2016	245.6	10.89	11.45	0.56	234.15	PP	0.1981	
	2/18/2016	245.6	11.27	11.29	0.02	234.31	SP	0.0965	
	3/23/2016	245.6	12.43	13.71	1.28	231.89	SP	0.6755	
	3/23/2016	245.6	12.43	13.71	1.28	231.89	PP	0.3302	
	4/27/2016	245.6	13.63	15.6	1.97	230	PP	1.1729	
	5/25/2016	245.6	11.63	13.16	1.53	232.44	SP		
	6/2/2016	245.6	12.11	14.29	2.18	231.31	PP	0.7661	
	6/22/2016	245.6	12.13	14.13	2	231.47	SP		
	7/28/2016	245.6	13.72	16.04	2.32	229.56	PP	0.6604	
	8/23/2016	245.6	12.21	13.68	1.47	231.92	PP	0.4227	
	9/26/2016	245.6	14.11	16.34	2.23	229.26	PP	0.7925	115.8669
MW-55	7/14/2009	246.12	14.29	17.25	2.96	231.45	--		
	7/16/2009	246.12	14.22	17.1	2.88	231.53	PP	1.374	
	7/22/2009	246.12	14.58	17.1	2.52	231.21	--		
	8/3/2009	246.12	13.92	15.72	1.8	231.97	--		
	8/18/2009	246.12	14.69	16.9	2.21	231.14	PS	0.132	
	9/3/2009	246.12	14.62	16.6	1.98	231.24	PS	0.132	
	9/18/2009	246.12	14.6	16.59	1.91	231.19	PP	0.687	
	9/18/2009	246.12	15.14	17.05	1.91	230.73	PS	0.132	
	10/6/2009	246.12	15.12	17.68	2.56	230.67	PP	0.96	
	10/19/2009	246.12	14.82	15.65	0.83	231.19	PP	0.37	
	11/5/2009	246.12	13.79	15.82	2.03	232.07	PP	0.55	
	11/12/2009	246.12	13.92	16.16	2.24	231.91	PP	0.819	
	12/4/2009	246.12	13.68	15.82	2.14	232.16	PP	0.687	
	12/11/2009	246.12	12.65	14.85	2.2	233.18	PP	1.268	
	12/16/2009	246.12	12.6	15.51	2.91	233.14	PP	1.347	
	12/29/2009	246.12	12.2	14.45	2.25	233.63	SP	0.2	
	1/14/2010	246.12	13.16	16.25	3.09	232.56	SP	0.77	
	1/20/2010	246.12	13.25	15.55	2.3	232.57	SP	3.28	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/16/2010	246.12	12.82	16	3.18	232.89	SP	9.65	
	3/1/2010	246.12	12.01	15.54	3.53	233.65	--		
	3/8/2010	246.12	12.42	13.39	0.97	233.57	SP		
	4/5/2010	246.12	12.34	15.92	3.55	233.29	SP	6.36	
	5/3/2010	246.12	13	15.15	2.15	232.84	SP	9.46	
	5/11/2010	246.12	13.9	15.2	1.3	232.05	SP	3.08	
	5/26/2010	246.12	12.8	14.13	1.33	233.15	SP	6.76	
	6/15/2010	246.12	14.63	15.39	0.76	231.39	--		
	6/18/2010	246.12	14.59	15.37	0.78	231.43	SP	11.19	
	7/30/2010	246.12	15.62	17.81	2.19	230.22	SP	4.06	
	9/2/2010	246.12	16.98	18.01	1.03	229.01	SP	1.86	
	9/9/2010	246.12	16.32	18.19	1.87	229.56	SP		
	9/21/2010	246.12	16.44	18.08	1.64	229.47	SP		
	10/13/2010	246.12	15.26	16.06	0.8	230.76	SP	4.053	
	11/4/2010	246.12	15.14	16.55	1.41	230.8	SP	0.579	
	11/12/2010	246.12	15.18	16.08	0.9	230.82	SP	0.193	
	11/24/2010	246.12	15.09	16.62	1.43	230.74	PP	0.872	
	12/3/2010	246.12					SP	0.965	
	12/10/2010	246.12	14.62	14.98	0.36	231.45	--		
	12/21/2010	246.12	15.06	15.61	0.55	230.99	SP	1.544	
	1/6/2011	246.12	15.17	15.18	0.1	231.03	SP	1.737	
	1/28/2011	246.12	15.85	17.76	1.91	230.02	SP	0.579	
	2/14/2011	246.12	15.07	15.08	0.01	231.05	--		
	2/18/2011	246.12					SP	1.158	
	3/4/2011	246.12	14.67	14.91	0.24	231.42	SP	1.544	
	3/22/2011	246.12	12.88	13.86	0.98	233.11	SP	1.93	
	4/13/2011	246.12	13.05	13.19	0.14	233.05	SP	4.246	
	4/20/2011	246.12	11.49	11.5	0.01	234.63	SP	0.772	
	4/29/2011	246.12	11.91	13.79	1.88	233.97	SP	0.193	
	5/13/2011	246.12	13.13	13.74	0.61	232.91	SP	3.86	
	5/20/2011	246.12	10.84	10.85	0.01	235.28	SP	1.544	
	5/26/2011	246.12	13.79	14.98	1.19	232.18	--		
	6/9/2011	246.12	13.24	16.25	3.01	232.49	SP	0.193	
	6/15/2011	246.12	13.95	14.47	0.52	232.1	SP	1.93	
	7/14/2011	246.12	14.7	15.65	0.95	231.3	SP	3.667	
	7/29/2011	246.12					SP	0	
	8/8/2011	246.12	15.27	17.47	2.2	230.56	--		
	8/17/2011	246.12	15.59	17.27	1.68	230.31	SP	4.632	
	8/24/2011	246.12	15.64	17.33	1.69	230.26	SP	0.193	
	9/1/2011	246.12	15.73	17.24	1.51	230.19	SP	0.193	
	9/14/2011	246.12	14.21	14.28	0.07	231.9	SP	0.386	
	10/6/2011	246.12	13.44	14.6	1.16	232.53	SP	1.93	
	10/25/2011	246.12	12.97	15.26	2.29	232.85	SP	0.965	
	11/15/2011	246.12	13.61	16.45	2.84	232.14	SP	2.193	
	12/8/2011	246.12	12.77	13.32	0.55	233.28	SP	1.158	
	12/15/2011	246.12	12.12	13.68	1.56	233.8	--		
	12/21/2011	246.12	12.85	15.64	2.74	232.86	SP	0.579	
	1/6/2012	246.12	13.19	13.78	0.59	232.85	SP	5.211	
	1/27/2012	246.12	13.06	13.77	0.71	232.97	SP	4.439	
	2/7/2012	246.12	13.84	14.44	0.6	232.2	SP	7.52	
	2/28/2012	246.12	14.47	14.49	0.02	231.65	SP	4.63	
	3/3/2012	246.12	13.21	13.83	0.62	232.83	SP	1.73	
	3/21/2012	246.12	14.15	14.57	0.42	231.92	--		
	3/27/2012	246.12	14.13	14.73	0.6	231.91	SP	2.5	
	4/13/2012	246.12	14.66	15.45	0.79	231.36	SP	2.51	
	4/27/2012	246.12	14.61	14.78	0.17	231.49	SP	1.74	
	5/11/2012	246.12	14.44	14.76	0.32	231.64	SP	1.35	
	5/25/2012	246.12	13.41	14.61	1.2	232.55	PP	0.396	
	6/7/2012	246.12	12.88	15.27	2.39	232.93	PP	0.819	
	6/13/2012	246.12	13.19	15.6	2.41	232.62	--		
	6/21/2012	246.12	13.52	16.34	2.82	232.23	--	0	
	7/3/2012	246.12	14.52	16.53	2.01	231.34	SP	1.737	
	7/18/2012	246.12	14.78	15.75	0.97	231.21	SP	1.351	
	8/1/2012	246.12	14.45	16.78	2.33	231.37	SP	0	
	8/16/2012	246.12	15.28	15.66	0.38	230.79	SP	2.895	
	9/7/2012	246.12	15.31	17.25	1.94	230.56	SP	0.772	
	9/24/2012	246.12	14.4	14.41	0.01	231.72	--		
	10/8/2012	246.12	14.42	14.51	0.09	231.69	SP	1.158	
	10/24/2012	246.12	14.01	15.64	1.63	231.9	SP		
	11/19/2012	246.12	12.87	13.63	0.76	233.15	SP	5.597	
	12/14/2012	246.12	14.28	14.97	0.69	231.75	PS		
	1/7/2013	246.12	13.51	14.81	1.3	232.44	SP	1.737	
	1/11/2013	246.12	13.41	15.76	2.35	232.4	--		
	1/22/2013	246.12	13	14.9	1.9	232.87	PP	0.152	
	1/23/2013	246.12	13.16	14.86	1.7	232.74	PP	0.246	
	2/6/2013	246.12	12.4	14.52	2.12	233.44	SP		
	3/1/2013	246.12	13.02	13.33	0.31	233.06	SP	4.053	
	3/15/2013	246.12	12.34	12.42	0.08	233.77	SP	2.316	
	3/29/2013	246.12	13.19	15.02	1.83	232.69	SP	0.579	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/11/2013	246.12	13.82	14.28	0.46	232.24	SP	4.053	
	4/26/2013	246.12	14.29	14.45	0.16	231.81	SP	2.123	
	5/13/2013	246.12	13.41	14.14	0.73	232.62	SP	0	
	5/20/2013	246.12	13.5	15.22	1.72	232.4	--		
	5/24/2013	246.12	13.25	14.61	1.36	232.69	SP	0.772	
	6/10/2013	246.12	12.99	13	0.01	233.13	SP	4.053	
	8/2/2013	246.12	14.42	14.44	0.02	231.7	SP		
	9/4/2013	246.12	14.98	15.48	0.5	231.08	SP	7.72	
	9/12/2013	246.12	14.79	15.14	0.35	231.28	PP	0.262	
	9/16/2013	246.12	15.03	16.99	1.96	230.84	SP		
	10/30/2013	246.12	14.12	14.73	1	232.26	SP		
	11/21/2013	246.12	14.88	16.81	2	231.05	PP	1.292	
	11/21/2013	246.12	14.88	16.81	2	231.05	SP	0.772	
	12/19/2013	246.12	12.98	12.99	1	234	SP	2.702	
	12/23/2013	246.12	12.99	13.12	0	233	--		
	1/15/2014	246.12	12.43	12.51	0.08	233.68	SP	5.597	
	2/18/2014	246.12	12.34	14.51	2.17	233.5	SP	1.93	
	3/10/2014	246.12	12.25	15	2.75	233.51	--		
	4/2/2014	246.12	11.58	13.62	2.04	234.27	PS		
	4/2/2014	246.12					PP	0.713	
	4/28/2014	246.12	13.31	13.46	0.15	232.79	SP		
	6/5/2014	246.12	12.44	15.17	2.73	233.33	SP	0.965	
	6/5/2014	246.12					AS	0.845	
	6/9/2014	246.12	12.89	13.92	1.03	233.1	AS	0.528	
	6/25/2014	246.12	12.11	14.94	2.83	233.64	PP	0.575	
	7/17/2014	246.12	12.64	12.67	0.03	233.48	SP	5.597	
	8/7/2014	246.12	13.72	16.44	2.72	232.05	PP	0.436	
	8/7/2014	246.12	13.72	16.44	2.72	232.05	SP	1.158	
	9/15/2014	246.12	14.37	16.35	1.98	231.49	--		
	9/25/2014	246.12	14.77	16.59	1.82	231.11	PP	0.7	
	9/25/2014	246.12	14.77	16.59	1.82	231.11	SP	3.667	
	10/2/2014	246.12	14.74	16.44	1.7	231.16	PP	0.638	
	10/30/2014	246.12	14.67	16.44	1.77	231.22	PP	0.198	
	10/30/2014	246.12	14.67	16.44	1.77	231.22	SP	0.772	
	11/25/2014	246.12	15.14	17.28	2.14	230.7	SP	0	
	11/25/2014	246.12	15.14	17.28	2.14	230.7	PP	0.687	
	12/23/2014	246.12	14.12	15.18	1.06	231.86	PP	0.185	
	12/23/2014	246.12	14.12	15.18	1.06	231.86	SP	6.562	
	12/29/2014	246.12	13.65	14.71	1.06	232.33	PP	0.079	
	1/16/2015	246.12	13.51	15.15	1.64	230.97	PP	0.2642	
	1/16/2015	246.12	13.51	15.15	1.64	230.97	SP	0	
	2/13/2015	246.12	13.93	15.98	2.05	230.14	PP	0.7595	
	2/13/2015	246.12	13.93	15.98	2.05	230.14	SP	0	
	3/24/2015	246.12	12.48	14.57	2.09	231.55	PP	0.634	
	3/24/2015	246.12	12.48	14.57	2.09	231.55	SP	0	
	4/15/2015	246.12	13.54	15.35	1.81	230.77	SP	1.93	
	4/15/2015	246.12	13.54	15.35	1.81	230.77	PP	0.4227	
	5/15/2015	246.12	13.88	15.72	1.84	230.4	SP	0.579	
	5/15/2015	246.12	13.88	15.72	1.84	230.4	PP	0.6076	
	6/23/2015	246.12	12.23	14.08	1.85	232.04	SP	0.386	
	6/23/2015	246.12	12.23	14.08	1.85	232.04	PP	0.6736	
	7/30/2015	246.12	13.88	15.97	2.09	230.15	SP	1.737	
	8/24/2015	246.12	14.1	15.41	1.31	230.71	SP	4.439	
	8/24/2015	246.12	14.1	15.41	1.31	230.71	PP	0.37	
	9/21/2015	246.12	15.08	17.7	2.62	228.42	SP	0.193	
	9/21/2015	246.12	15.08	17.7	2.62	228.42	PP	1.2	
	10/27/2015	246.12	14.43	15.32	0.89	230.8	SP	3.474	
	11/23/2015	246.12	13.79	15.3	1.51	230.82	SP	0	
	11/23/2015	246.12	13.79	15.3	1.51	230.82	PP	1.0039	
	12/28/2015	246.12	12.82	12.83	0.01	233.29	SP	0	
	2/5/2016	246.12	11.2	12.3	1.1	233.82	SP	0.965	
	2/5/2016	246.12	11.2	12.3	1.1	233.82	PP	0.5019	
	2/18/2016	246.12	11.48	12.1	0.62	234.02	SP	0.965	
	3/23/2016	246.12	12.61	15.35	2.74	230.77	SP	0	
	3/23/2016	246.12	12.61	15.35	2.74	230.77	PP	0.5349	
	4/27/2016	246.12	13.79	16.38	2.59	229.74	PP	1.3539	
	5/25/2016	246.12	11.79	14.84	3.05	231.28	SP		
	6/2/2016	246.12	12.35	15.95	3.6	230.17	PP	1.1888	
	6/22/2016	246.12	12.99	14.98	1.99	231.14	SP		
	7/28/2016	246.12	14.16	16.57	2.41	229.55	PP	0.7925	
	8/23/2016	246.12	12.5	14.51	2.01	231.61	PP	0.6076	
	9/26/2016	246.12	14.49	17.21	2.72	228.91	PP	1.0039	246.522
MW-56	7/14/2009	244.63	13.06	16.25	3.19	231.16	--		
	7/16/2009	244.63	12.99	16.33	3.34	231.21	PP	1.294	
	7/22/2009	244.63	13.35	15.82	2.47	230.96	--		
	8/3/2009	244.63	12.44	15.9	3.46	231.74	--		
	8/18/2009	244.63	13.32	16.74	3.42	230.87	PP	2.061	
	8/20/2009	244.63	13.61	15.42	1.81	230.78	SP		
	9/3/2009	244.63	13.4	15.55	2.15	230.95	SP	0.965	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/8/2009	244.63					SP	0.965	
	9/9/2009	244.63	13.9	15.26	1.36	230.55	SP		
	9/18/2009	244.63	13.86	16.02	2.16	230.49	SP	0.001	
	10/6/2009	244.63	14.38	14.39	0.01	230.25	SP	3.08	
	10/19/2009	244.63	13.65	13.66	0.01	230.98	SP	1.16	
	11/5/2009	244.63	12.45	15.16	2.71	231.83	PP	0.489	
	11/12/2009	244.63	12.59	15.11	2.52	231.71	SP	7.72	
	12/4/2009	244.63	12.42	14.49	2.07	231.94	SP	2.12	
	12/11/2009	244.63	11.1	14.61	3.51	233.07	--		
	12/16/2009	244.63	11.59	12.76	1.17	232.89	SP	1.35	
	12/24/2009	244.63	10.48	14.18	3.7	233.67	SP	0.77	
	1/14/2010	244.63	11.7	15.35	3.65	232.46	SP	3.47	
	1/20/2010	244.63	11.62	15.76	4.14	232.47	--		
	2/16/2010	244.63	11.34	15.34	4	232.77	SP	18.72	
	3/1/2010	244.63	10.67	11.65	0.98	233.83	--		
	3/8/2010	244.63	10.71	13.54	2.83	233.55	SP		
	4/5/2010	244.63	10.4	16	5.6	233.5	--		
	4/6/2010	244.63	10.6	15.89	5.29	233.34	--		
	5/3/2010	244.63	11.46	15.9	4.44	232.59	PS		
	5/3/2010	244.63	11.46	15.9	4.44	232.59	SP	0.38	
	5/11/2010	244.63	12.09	15.95	3.86	232.04	SP		
	5/26/2010	244.63	11.5	12.28	0.78	233.03	SP	3.28	
	6/15/2010	244.63	12.88	15.3	2.42	231.44	--		
	6/18/2010	244.63	12.97	15.01	2.04	231.39	SP	0.97	
	7/30/2010	244.63	14.23	16.78	2.55	230.07	SP	5.01	
	9/2/2010	244.63	14.96	15.37	0.41	229.62	SP	2.38	
	9/9/2010	244.63	14.84	16.99	2.15	229.51	SP	0.386	
	9/21/2010	244.63	15.23	15.79	0.56	229.33	SP		
	10/13/2010	244.63	14.17	14.41	0.24	230.43	SP	4.246	
	11/4/2010	244.63	13.8	14.12	0.32	230.79	SP	2.316	
	11/12/2010	244.63	13.96	14.35	0.39	230.62	SP	0.772	
	12/3/2010	244.63	12.84	13.68	0.84	231.68	SP	1.93	
	12/10/2010	244.63	13.25	13.72	0.47	231.32	--		
	12/21/2010	244.63	12.96	13.24	0.28	231.63	SP	0.965	
	1/6/2011	244.63	13.8	15.82	2.02	230.57	SP	0.772	
	1/28/2011	244.63	14.37	16.59	2.22	229.97	SP	0.386	
	2/14/2011	244.63	13.23	15.88	2.65	231.06	--		
	2/18/2011	244.63	13.37	15.92	2.55	230.93	SP	0.386	
	3/4/2011	244.63	13.22	13.24	0.02	231.41	SP	2.316	
	3/22/2011	244.63	11.86	12	0.14	232.75	SP		
	4/13/2011	244.63	11.36	15.54	4.18	232.73	SP	0	
	4/20/2011	244.63	10.05	11.22	1.17	234.43	SP	3.088	
	4/29/2011	244.63	10.88	11.6	0.72	233.66	SP	0.193	
	5/13/2011	244.63	11.78	14.3	2.52	232.52	SP	1.158	
	5/20/2011	244.63	9.02	12.57	3.55	235.15	SP	0	
	5/26/2011	244.63	12.94	13.85	0.91	231.57	--		
	6/9/2011	244.63	12.08	16.29	4.21	232	SP	0	
	6/15/2011	244.63	12.92	13.23	0.31	231.67	SP	2.123	
	7/14/2011	244.63	13.76	14.12	0.36	230.82	SP	2.316	
	7/29/2011	244.63					SP	0.579	
	8/8/2011	244.63	14.45	14.81	0.36	230.13	--		
	8/17/2011	244.63	14.6	15.01	0.41	229.98	SP	0.965	
	8/24/2011	244.63	14.64	15.1	0.46	229.93	SP	1.158	
	9/1/2011	244.63	14.75	15.08	0.33	229.84	SP	0.386	
	9/14/2011	244.63	13.05	13.1	0.05	231.57	SP	0.579	
	10/6/2011	244.63	11.96	15.33	3.37	232.23	SP	0	
	10/25/2011	244.63	11.61	15.37	3.76	232.53	SP	0.386	
	11/15/2011	244.63	12.85	12.87	0.02	231.78	SP	3.667	
	12/8/2011	244.63	11.09	15.03	3.94	233.03	PS	0.264	
	12/15/2011	244.63	11.03	15.8	4.77	232.98	--		
	12/21/2011	244.63	11.28	16.19	4.91	232.71	PP	1.215	
	1/6/2012	244.63	11.83	15.67	3.84	232.3	PP		
	1/27/2012	244.63	11.5	15.45	3.95	232.62	PS	0.132	
	2/7/2012	244.63	12.52	13.57	1.05	231.97	SP	1.73	
	2/28/2012	244.63	12.97	16.1	3.13	231.25	SP	0	
	3/3/2012	244.63	11.87	13.5	1.63	232.55	SP	2.32	
	3/21/2012	244.63	12.65	12.99	0.34	231.94	--		
	3/27/2012	244.63	12.94	13.1	0.16	231.67	SP	1.54	
	4/13/2012	244.63	13.41	14.53	1.12	231.07	SP	0.193	
	4/27/2012	244.63	13.19	15.54	2.35	231.13	SP	0.386	
	5/25/2012	244.63	12.14	13.5	1.36	232.31	SP	0.965	
	6/7/2012	244.63	11.6	14.97	3.37	232.59	SP	0.193	
	6/13/2012	244.63	12.12	14.95	2.83	232.14	SP		
	6/21/2012	244.63	12.45	15.37	2.92	231.8	SP	0.965	
	7/3/2012	244.63	13.35	15.93	2.58	230.94	SP	0	
	7/18/2012	244.63	13.56	16.18	2.62	230.73	SP	0	
	8/1/2012	244.63	13.21	16.75	3.54	230.96	SP	0	
	8/16/2012	244.63	14	14.43	0.43	230.57	SP		
	9/7/2012	244.63	14.29	14.6	0.31	230.3	SP	1.544	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/24/2012	244.63	13.09	13.67	0.58	231.46	SP		
	10/8/2012	244.63	13.1	13.21	0.11	231.52	SP	0.579	
	11/19/2012	244.63	11.63	13.64	2.01	232.74	SP	2.316	
	12/14/2012	244.63	12.77	15.82	3.05	231.46	SP	0.132	
	1/7/2013	244.63	12.39	12.54	0.15	232.22	SP	2.509	
	1/11/2013	244.63	12.25	13.18	0.93	232.26	--		
	1/24/2013	244.63	11.74	14.89	3.15	232.48	PP	0.528	
	1/25/2013	244.63	12.01	13.96	1.95	232.37	PP	0.304	
	2/6/2013	244.63	11.08	13.25	2.17	233.27	PP	0.581	
	3/1/2013	244.63	11.36	15.34	3.98	232.75	SP	0	
	3/15/2013	244.63	10.44	15.39	4.95	233.55	SP	0.386	
	3/29/2013	244.63		15.95		228.68	PP	1.057	
	3/29/2013	244.63	11.68	15.95	4.27	232.39	PS	0.139	
	4/11/2013	244.63	11.15	15.61	4.46	232.9	SP	0	
	4/26/2013	244.63	12.22	15.01	2.79	232.05	SP	2.509	
	5/13/2013	244.63	11.86	13.96	2.1	232.5	SP	0.579	
	5/20/2013	244.63	12.45	13.13	0.68	232.09	--		
	5/24/2013	244.63	12	12.8	0.8	232.53	SP	2.702	
	6/10/2013	244.63	11.62	11.63	0.01	233.01	SP		
	8/2/2013	244.63	12.8	16.33	3.53	231.37	SP		
	9/4/2013	244.63	13.8	14.29	0.49	230.77	SP	3.088	
	9/12/2013	244.63	13.88	14.62	0.74	230.65	PP	0.238	
	9/16/2013	244.63	14.23	14.24	0.01	230.4	SP		
	10/30/2013	244.63	12.76	14.97	2	231.4	SP	1.544	
	10/30/2013	244.63	12.76	14.97	2	231.4	PP	0.793	
	11/21/2013	244.63	14.88	16.81	2	229.56	PP	0.819	
	11/21/2013	244.63	13.75	15.2	1	230.3	SP	1.544	
	12/19/2013	244.63	11.24	14.44	3	232.8	PP	0.939	
	12/19/2013	244.63	11.24	14.44	3	232.8	SP	0.772	
	12/23/2013	244.63	11.7	12.6	1	232.9	--		
	1/15/2014	244.63	10.9	12.67	1.77	233.5	SP	1.158	
	2/18/2014	244.63	11.21	14.2	2.99	233.03	SP	0.965	
	3/10/2014	244.63	11.15	14.08	2.93	233.1	--		
	4/28/2014	244.63	11.79	14.07	2.28	232.54	SP		
	6/5/2014	244.63	11.09	15.25	4.16	233	SP	2.702	
	6/5/2014	244.63					AS	1.017	
	6/9/2014	244.63	11.42	14.54	3.12	232.8	AS	0.793	
	6/25/2014	244.63	10.84	14.79	3.95	233.28	PP	1	
	7/17/2014	244.63	11.08	11.92	0.84	233.44	SP	0.965	
	7/17/2014	244.63	11.08	11.92	0.84	233.44	PP	0.416	
	8/7/2014	244.63	12.7	14.8	2.1	231.66	PP	0.396	
	8/7/2014	244.63	12.7	14.8	2.1	231.66	SP	0.965	
	9/15/2014	244.63	13.23	15.35	2.12	231.12	--		
	9/25/2014	244.63	13.56	15.22	1.66	230.85	SP	1.544	
	9/25/2014	244.63	13.56	15.22	1.66	230.85	PP	0.458	
	10/30/2014	244.63	13.24	16.12	2.88	231.02	SP	0	
	10/30/2014	244.63	13.24	16.12	2.88	231.02	PP	0.35	
	11/25/2014	244.63	13.9	16.19	2.29	230.43	SP	3.667	
	12/23/2014	244.63	12.48	16.82	4.34	231.59	PP	0.997	
	12/23/2014	244.63	12.48	16.82	4.34	231.59	SP	0.193	
	12/29/2014	244.63	11.92	15.06	3.14	232.3	--		
	1/16/2015	244.63	12.13	15.53	3.4	229.1	PP	2.8531	
	1/16/2015	244.63	12.13	15.53	3.4	229.1	SP	0	
	2/13/2015	244.63	12.34	15.94	3.6	228.69	PP	0.7001	
	2/13/2015	244.63	12.34	15.94	3.6	228.69	SP	0	
	3/24/2015	244.63	10.96	15.55	4.59	229.08	PP	1.0303	
	3/24/2015	244.63	10.96	15.55	4.59	229.08	SP	0	
	4/15/2015	244.63	12.2	15.42	3.22	229.21	SP	2.316	
	4/15/2015	244.63	12.2	15.42	3.22	229.21	PP	0.5653	
	5/15/2015	244.63	12.72	14.86	2.14	229.77	SP	1.158	
	5/15/2015	244.63	12.72	14.86	2.14	229.77	PP	0.7185	
	6/23/2015	244.63	10.43	15.09	4.66	229.54	SP	0.193	
	6/23/2015	244.63	10.43	15.09	4.66	229.54	PP	0.6604	
	7/30/2015	244.63	12.96	13.7	0.74	230.93	SP	0.579	
	8/24/2015	244.63	12.89	15.24	2.35	229.39	SP	0.772	
	8/24/2015	244.63	12.89	15.24	2.35	229.39	PP	0.502	
	9/21/2015	244.63	14.05	15.98	1.93	228.65	SP		
	9/21/2015	244.63	14.05	15.98	1.93	228.65	PP	0.33	
	10/27/2015	244.63	13.03	15.77	2.74	228.86	SP	1.351	
	11/23/2015	244.63	12.18	16.05	3.87	228.58	SP	0	
	11/23/2015	244.63	12.18	16.05	3.87	228.58	PP	0.634	
	12/28/2015	244.63	11.13	15.21	4.08	229.42	SP	0.579	
	2/5/2016	244.63	9.6	12.84	3.24	231.79	SP	2.316	
	2/5/2016	244.63	9.6	12.84	3.24	231.79	PP	0.5548	
	2/18/2016	244.63	10.11	12.12	2.01	232.51	SP	0.386	
	2/18/2016	244.63	10.11	12.12	2.01	232.51	PP	0.4359	
	3/23/2016	244.63	11.18	15.41	4.23	229.22	SP	1.158	
	3/23/2016	244.63	11.18	15.41	4.23	229.22	PP	0.5746	
	4/27/2016	244.63	12.56	15.69	3.13	228.94	SP		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/27/2016	244.63	12.56	15.69	3.13	228.94	PP	0.6208	
	5/25/2016	244.63	10.31	15.04	0.11	229.59	SP		
	6/2/2016	244.63	11.09	15.82	4.73	228.81	PP	0.8189	
	6/22/2016	244.63	11.5	14.12	2.62	230.51	SP		
	7/28/2016	244.63	12.55	15.71	3.16	228.92	PP	0.5283	
	8/23/2016	244.63	11.1	14.22	3.12	230.41	PP	0.3038	
	9/26/2016	244.63	13.2	16.13	2.93	228.5	PP	0.7529	163.7407
MW-57	7/14/2009	244.52	12.98	16.24	3.26	231.12	--		
	7/16/2009	244.52	12.89	16.4	3.51	231.17	PP	1.4	
	7/22/2009	244.52	13.33	15.63	2.3	230.89	--		
	8/3/2009	244.52	12.39	15.76	3.37	231.69	PP	1.11	
	8/18/2009	244.52	13.29	16.45	3.16	230.82	PP	1.11	
	9/3/2009	244.52	13.25	16.25	3	230.88	PP	0.977	
	9/18/2009	244.52	13.72	16.45	2.73	230.45	PP	1.189	
	10/6/2009	244.52	14.01	16.49	2.48	230.19	PP	0.82	
	10/19/2009	244.52	13.22	15.92	2.7	230.95	--		
	11/5/2009	244.52	12.66	13.78	1.12	231.71	SP	2.1	
	11/12/2009	244.52	12.63	14.33	1.7	231.67	PP	0.37	
	12/4/2009	244.52	12.12	15.83	3.71	231.92	PP	1.11	
	12/11/2009	244.52	11.05	14.2	3.15	233.06	PP	0.74	
	12/16/2009	244.52	11.31	13.8	2.49	232.89	PP	0.502	
	12/29/2009	244.52	10.42	13.3	2.88	233.73	--		
	1/14/2010	244.52	12.03	12.2	0.17	232.47	SP	1.16	
	1/20/2010	244.52	12.06	12.46	0.4	232.41	SP	2.31	
	2/16/2010	244.52	11.76	12.21	0.45	232.7	SP	3.66	
	3/1/2010	244.52	10.9	11.9	1	233.49	--		
	3/8/2010	244.52	10.92	11.3	0.38	233.55	SP		
	4/5/2010	244.52	11.05	11.4	0.35	233.42	SP	1.93	
	5/3/2010	244.52	11.48	15.05	3.57	232.58	PS		
	5/3/2010	244.52	11.48	15.05	3.57	232.58	SP		
	5/11/2010	244.52	12.1	15	2.9	232.04	SP	0.97	
	5/26/2010	244.52	11.43	11.46	0.03	233.09	SP	1.93	
	6/15/2010	244.52	12.84	15.05	2.21	231.39	--		
	6/18/2010	244.52	12.86	14.21	1.35	231.48	SP		
	7/30/2010	244.52	14.18	16.74	2.56	230.01	SP	2.12	
	9/2/2010	244.52	14.89	15.98	1.09	229.49	SP	0.98	
	9/9/2010	244.52	14.8	16.81	2.01	229.46	SP	1.158	
	9/21/2010	244.52	15.13	16.35	1.22	229.23	SP		
	10/13/2010	244.52	13.79	16.18	2.39	230.42	SP	0.579	
	11/4/2010	244.52	13.52	15.82	2.3	230.7	SP		
	11/12/2010	244.52	13.64	16.12	2.46	230.54	--		
	11/19/2010	244.52	13.05	14.81	1.76	231.24	PP	0.37	
	12/3/2010	244.52	12.44	15.5	3.06	231.68	PP	0.925	
	12/3/2010	244.52	12.44	15.5	3.06	231.68	SP	1.544	
	12/10/2010	244.52	13.07	14.95	1.88	231.21	--		
	12/21/2010	244.52	13.27	15.78	2.51	230.92	PP	0.872	
	1/6/2011	244.52	13.74	16.03	2.29	230.48	SP		
	1/28/2011	244.52	14.42	15.85	1.43	229.91	SP	0.965	
	2/14/2011	244.52	13.3	15.16	1.86	230.98	--		
	2/18/2011	244.52	13.37	15.44	2.07	230.88	SP	1.351	
	3/4/2011	244.52	12.76	15.8	3.04	231.36	SP		
	3/22/2011	244.52	11.5	13.78	2.28	232.72	SP	2.123	
	4/13/2011	244.52	11.4	14.29	2.89	232.74	SP	0	
	4/20/2011	244.52	9.83	11.64	1.81	234.45	SP	0	
	4/29/2011	244.52	10.59	12.45	1.86	233.69	SP	0.193	
	5/13/2011	244.52	11.78	13.24	1.46	232.55	SP	0.772	
	5/20/2011	244.52	9.24	10.03	0.79	235.18	SP	0	
	5/26/2011	244.52	13.07	14.59	1.52	231.25	--		
	6/9/2011	244.52	12.17	14.74	2.57	232.02	SP	0.193	
	6/15/2011	244.52	12.87	12.88	0.01	231.65	SP	0.193	
	7/14/2011	244.52	13.45	15.48	2.03	230.81	PP	0.476	
	7/14/2011	244.52	13.45	15.48	2.03	230.81	SP	1.351	
	7/29/2011	244.52					SP	0	
	8/8/2011	244.52	14.2	16.09	1.89	230.07	--		
	8/17/2011	244.52	14.37	16.32	1.95	229.9	SP	0	
	8/24/2011	244.52	14.43	16.22	1.79	229.86	SP	0	
	9/1/2011	244.52	14.53	16.14	1.61	229.78	SP	0	
	9/14/2011	244.52	12.73	15.53	2.8	231.43	PP	0.845	
	10/6/2011	244.52	12.08	13.82	1.74	232.21	PP	0.386	
	10/25/2011	244.52	11.91	12.47	0.56	232.54	PP	0.159	
	11/15/2011	244.52	12.7	13.23	0.53	231.75	PP	0.264	
	12/8/2011	244.52	10.96	10.97	0.01	233.56	PS	0.003	
	12/15/2011	244.52	11.43	11.46	0.02	233.08	--		
	12/21/2011	244.52	11.73	11.74	0.01	232.79	PS	0.005	
	1/6/2012	244.52	11.93	11.95	0.02	232.59	PS	0.013	
	1/27/2012	244.52	11.29	11.37	0.08	233.22	--		
	2/7/2012	244.52	12.73	12.79	0.06	231.78	PS	0.007	
	2/28/2012	244.52	13.23	13.36	0.13	231.27	PS	0.013	
	3/3/2012	244.52	12.19	12.24	0.05	232.32	PS	0	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/21/2012	244.52	12.73	12.85	0.12	231.77	--		
	3/27/2012	244.52	13.08	13.23	0.15	231.42	PS	0.007	
	4/13/2012	244.52	13.82	13.88	0.06	230.69	PS		
	4/27/2012	244.52	14.24	14.3	0.06	230.27	PS	0.003	
	5/25/2012	244.52	11.98	12.3	0.32	232.5	--		
	6/7/2012	244.52	11.97	11.98	0.01	232.55	PS	0.092	
	6/13/2012	244.52		12.68		231.84	PS		
	7/18/2012	244.52	13.83	13.98	0.15	230.67	PS	0.001	
	8/1/2012	244.52	13.35	13.72	0.37	231.12	--		
	8/16/2012	244.52	13.73	14.12	0.39	230.74	--		
	9/7/2012	244.52	14.11	14.34	0.23	230.38	AS		
	9/24/2012	244.52		13.11		231.41	PS		
	10/8/2012	244.52		12.85		231.67	AS	0.066	
	11/19/2012	244.52		11.43		233.09	AS	0.013	
	12/14/2012	244.52		13.03		231.49	AS	0	
	1/7/2013	244.52		11.81		232.71	--		
	1/11/2013	244.52		11.82		232.7	--		
	2/6/2013	244.52	10.73	10.74	0.01	233.79	AS		
	3/1/2013	244.52		11.81		232.71	--		
	3/15/2013	244.52		10.88		233.64	PS		
	3/29/2013	244.52		11.76		232.76	--		
	4/26/2013	244.52		12.67		231.85	--		
	5/13/2013	244.52		11.47		233.05	--		
	5/20/2013	244.52		12.07		232.45	--		
	5/24/2013	244.52	11.46	11.47	0.01	233.06	--		
	6/28/2013	244.52		11.36		233.16	--		
	8/2/2013	244.52		12.83		231.69	--		
	9/4/2013	244.52		13.24		231.28	--		
	9/16/2013	244.52	13.95	13.96	0.01	230.57	--		
	10/30/2013	244.52	12.63	12.72	0	231.8	AS	0.04	
	11/21/2013	244.52	13.75	15.2	1	230.19	PP	0	
	12/19/2013	244.52		11.2		233.32	--		
	12/23/2013	244.52		11.37		233.15	--		
	1/15/2014	244.52		10.85		233.67	--		
	2/18/2014	244.52		11.26		233.26	--		
	3/10/2014	244.52		10.89		233.63	--		
	4/28/2014	244.52					--		
	6/5/2014	244.52		11.41		233.11	--		
	6/9/2014	244.52	11.63	11.64	0.01	232.89	--		
	6/25/2014	244.52		11.18		233.34	--		
	7/17/2014	244.52		10.83		233.69	--		
	8/7/2014	244.52		12.93		231.59	AS		
	9/15/2014	244.52		13.27		231.25	--		
	9/25/2014	244.52		13.81		230.71	--		
	10/30/2014	244.52		13.58		230.94	AS		
	11/25/2014	244.52		14.1		230.42	--		
	12/23/2014	244.52		12.6		231.92	AS	0.026	
	12/29/2014	244.52		11.95		232.57	--		
	1/16/2015	244.52		12.09		232.43	--		
	2/13/2015	244.52		12.71		231.81	--		
	3/24/2015	244.52		1.48		243.04	--		
	4/15/2015	244.52		12.32		232.2	--		
	5/15/2015	244.52		12.52		232	--		
	6/23/2015	244.52		10.35		234.17	--		
	7/30/2015	244.52		12.73		231.79	--		
	8/24/2015	244.52		13.61		230.91	--		
	9/21/2015	244.52	13.96	13.98	0.02	230.54	AS	0.013	
	10/27/2015	244.52		12.99		231.53	--		
	11/23/2015	244.52		12.17		232.35	--		
	12/28/2015	244.52		11		233.52	--		
	2/5/2016	244.52		9.22	0	235.3	AS	0	
	2/18/2016	244.52		9.91	0	234.61	AS	0	
	3/23/2016	244.52		11.36		233.16	--		
	4/27/2016	244.52		12.13		232.39	--		
	5/25/2016	244.52		10.42		234.1	AS		
	6/22/2016	244.52		10.93		233.59	--		
	7/28/2016	244.52	12.48	12.49	0.01	232.03	AS		
	8/23/2016	244.52		10.98		233.54	AS		
	9/26/2016	244.52	13.34	13.35	0.01	231.17	AS	0	41.509
MW-58	7/14/2009	244.42	13.23	13.93	0.7	231.1	--		
	7/16/2009	244.42	13.23	13.94	0.71	231.1	PP	0.119	
	7/22/2009	244.42	13.49	13.96	0.47	230.87	--		
	8/3/2009	244.42	12.71	13.1	0.39	231.66	PP	0.066	
	8/18/2009	244.42	13.52	14.28	0.76	230.8	PP	0.159	
	9/3/2009	244.42	13.6	14.04	0.44	230.76	PP	0.079	
	9/18/2009	244.42	13.91	14.55	0.64	230.43	--		
	10/6/2009	244.42	14.14	14.68	0.54	230.21	PS	0.132	
	10/19/2009	244.42	13.38	13.63	0.25	231.01	PS	0.132	
	11/5/2009	244.42	12.61	12.9	0.29	231.77	PS	0.003	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	11/12/2009	244.42					--		
	12/4/2009	244.42	12.49	12.52	0.03	231.93	PS	0.132	
	12/11/2009	244.42		11.39		233.03	PS	0.079	
	12/16/2009	244.42	11.57	11.64	0.07	232.84	--		
	1/20/2010	244.42		12.02		232.4	--		
	2/16/2010	244.42		11.75		232.67	AS		
	3/1/2010	244.42		10.65		233.77	--		
	4/5/2010	244.42	11	11.11	0.11	233.41	PP	0.053	
	5/3/2010	244.42	11.73	12	0.27	232.65	PP	0.053	
	5/26/2010	244.42	11.33	11.42	0.09	233.08	AS	0.013	
	6/15/2010	244.42	13.21	13.38	0.26	231.27	--		
	6/18/2010	244.42	13.14	13.36	0.22	231.25	PP	0.106	
	7/30/2010	244.42	14.26	15.52	1.26	230	PP	0.317	
	9/2/2010	244.42	15.54	15.83	0.29	228.84	PP	0.079	
	9/21/2010	244.42	14.98	16.41	1.43	229.25	PP	0.211	
	10/13/2010	244.42	13.87	14.93	1.06	230.41	PP	0.304	
	11/4/2010	244.42					--		
	11/12/2010	244.42	13.26	13.31	0.05	231.15	PS	0.132	
	11/19/2010	244.42	13.08	13.2	0.12	231.32	PS	0.132	
	11/24/2010	244.42					PS	0.079	
	12/3/2010	244.42	12.84	13.05	0.21	231.55	PS	0.003	
	12/10/2010	244.42	13.35	13.36	0.01	231.07	--		
	12/21/2010	244.42	13.57	13.59	0.02	230.85	PS	0.132	
	1/6/2011	244.42	14.03	14.2	0.17	230.37	PS	0.003	
	1/28/2011	244.42	14.43	14.98	0.55	229.92	PS	0.132	
	2/14/2011	244.42	13.48	13.5	0.02	230.94	--		
	2/18/2011	244.42	13.57	13.59	0.02	230.85	PS	0.106	
	3/4/2011	244.42	13.07	13.09	0.02	231.35	PS	0.132	
	3/22/2011	244.42	11.73	11.74	0.01	232.69	PS	0.003	
	4/13/2011	244.42		11.73		232.69	PS	0	
	4/20/2011	244.42	10.08	10.1	0.02	234.34	PS	0.003	
	4/29/2011	244.42		10.83		233.59	PS	0	
	5/13/2011	244.42	11.83	11.98	0.05	232.48	PS	0.003	
	5/20/2011	244.42	9.32	9.33	0.01	235.1	PS	0.003	
	5/26/2011	244.42	13.32	13.33	0.01	231.1	--		
	6/9/2011	244.42	12.44	12.49	0.05	231.97	PS	0.003	
	6/15/2011	244.42	12.79	12.88	0.09	231.62	PS	0.003	
	7/14/2011	244.42	13.79	13.8	0.01	230.63	PS	0.053	
	7/21/2011	244.42	13.72	13.77	0.05	230.69	PS	0.079	
	8/8/2011	244.42	14.4	14.51	0.11	230.01	--		
	8/17/2011	244.42	14.48	14.73	0.25	229.91	PS	0.053	
	8/24/2011	244.42	14.56	14.58	0.02	229.86	PS	0.132	
	9/1/2011	244.42	14.67	14.69	0.02	229.75	PS	0.04	
	9/14/2011	244.42	12.96	12.99	0.03	231.46	PS	0.003	
	10/6/2011	244.42		12.24		232.18	PP		
	10/25/2011	244.42	12.1	12.12	0.02	232.32	PS	0.001	
	11/15/2011	244.42	12.73	12.74	0.01	231.69	PS	0.003	
	12/15/2011	244.42	11.51	11.53	0.02	232.91	--		
	12/21/2011	244.42		11.75		232.67	--		
	1/6/2012	244.42	11.9	11.91	0.01	232.52	--		
	1/27/2012	244.42	11.81	11.82	0.01	232.61	--		
	2/7/2012	244.42	12.45	12.53	0.08	231.96	--		
	2/28/2012	244.42	13.19	13.25	0.06	231.22	--		
	3/3/2012	244.42	11.88	11.9	0.02	232.54	--		
	3/21/2012	244.42	12.51	12.58	0.07	231.9	--		
	4/13/2012	244.42	13.33	13.53	0.2	231.06	--		
	4/27/2012	244.42	13.25	13.41	0.16	231.15	--		
	5/25/2012	244.42	12.37	12.38	0.01	232.05	PS	0.026	
	6/7/2012	244.42		11.89		232.53	--		
	6/13/2012	244.42		12.22		232.2	--		
	7/18/2012	244.42	13.66	14.02	0.36	230.71	PS		
	8/1/2012	244.42	13.93	13.94	0.01	230.49	PS	0.053	
	8/16/2012	244.42	14.15	14.16	0.01	230.27	PS	0.053	
	9/7/2012	244.42	14.13	14.4	0.27	230.25	PS		
	9/24/2012	244.42	13.04	13.08	0.04	231.37	--		
	10/8/2012	244.42	13.11	13.12	0.01	231.31	PS	0.003	
	10/24/2012	244.42					PS	0.013	
	11/19/2012	244.42		11.7		232.72	--		
	12/14/2012	244.42	12.94	12.96	0.02	231.48	--		
	1/7/2013	244.42	12.28	12.29	0.01	232.14	AS	0.013	
	1/11/2013	244.42		12.27		232.15	--		
	2/6/2013	244.42		11.45		232.97	PS	0.026	
	3/1/2013	244.42		11.74		232.68	--		
	3/15/2013	244.42		10.91		233.51	AS		
	3/29/2013	244.42		12.13		232.29	AS		
	4/11/2013	244.42		12.55		231.87	AS		
	4/26/2013	244.42		13.04		231.38	AS	0.004	
	5/13/2013	244.42		11.97		232.45	--		
	5/20/2013	244.42		12.35		232.07	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	5/24/2013	244.42		11.92		232.5	--		
	6/28/2013	244.42		11.86		232.56	--		
	8/2/2013	244.42		13.12		231.3	--		
	9/4/2013	244.42	13.66	13.98	0.32	230.72	--		
	9/16/2013	244.42	14.31	14.32	0.01	230.11	PS	0.066	
	10/30/2013	244.42	12.92	13	0	231.42	PS	0.013	
	11/21/2013	244.42	13.97	13.98	0	230.44	--		
	12/19/2013	244.42		11.54		232.88	--		
	1/15/2014	244.42		11.23		233.19	--		
	2/18/2014	244.42		11.37		233.05	--		
	3/10/2014	244.42		11.26		233.16	--		
	4/28/2014	244.42					--		
	6/5/2014	244.42	11.69	11.73	0.04	232.72	AS	0.026	
	6/9/2014	244.42		11.82		232.6	--		
	6/25/2014	244.42		11.33		233.09	--		
	7/17/2014	244.42		11.09		233.33	--		
	8/7/2014	244.42		13.02		231.4	AS		
	9/15/2014	244.42		13.23		231.19	--		
	9/25/2014	244.42		13.79		230.63	--		
	10/30/2014	244.42	13.48	13.5	0.02	230.94	AS	0.013	
	11/25/2014	244.42	13.95	14.02	0.07	230.46	--	0.026	
	12/23/2014	244.42	12.78	12.79	0.01	231.64	AS	0.053	
	12/29/2014	244.42		12.42		232	--		
	1/16/2015	244.42		12.22		232.2	--		
	2/13/2015	244.42		12.82		231.6	--		
	3/24/2015	244.42		11.42		233	--		
	4/15/2015	244.42		12.37		232.05	--		
	5/15/2015	244.42		12.65		231.77	--		
	6/23/2015	244.42		11.25		233.17	--		
	7/30/2015	244.42		12.77		231.65	--		
	8/24/2015	244.42	12.99	13	0.01	231.42	--		
	9/21/2015	244.42	14.05	14.22	0.17	230.2	AS	0.04	
	10/27/2015	244.42	13.09	13.14	0.05	231.28	AS	0.0026	
	11/23/2015	244.42		12.82		231.6	--		
	12/28/2015	244.42		11.49		232.93	AS	0.0594	
	2/5/2016	244.42		10.38	0	234.04	AS	0.0013	
	2/18/2016	244.42		10.22	0	234.2	AS	0	
	3/23/2016	244.42		11.58	0	232.84	AS	0.0132	
	4/27/2016	244.42	12.58	12.59	0.01	231.83	AS	0.0066	
	5/25/2016	244.42		12.96	2.3	231.46	AS		
	6/22/2016	244.42		11.95		232.47	--		
	7/28/2016	244.42		13.18		231.24	AS		
	8/23/2016	244.42		11.39		233.03	AS		
	9/26/2016	244.42	13.53	13.54	0.01	230.88	AS	0	3.7811
MW-59	3/21/2012	246.07		13.29		232.78	--		
	3/27/2012	246.07	13.6	13.64	0.04	232.46	--		
	4/13/2012	246.07	14.2	14.35	0.15	231.85	AS	0.159	
	4/27/2012	246.07	14.15	14.28	0.13	231.9	AS	0.132	
	5/25/2012	246.07	13.01	13.03	0.02	233.06	AS	0.172	
	6/7/2012	246.07	12.52	12.6	0.08	233.54	AS	0.145	
	6/13/2012	246.07	12.85	12.95	0.1	233.21	AS	0.198	
	6/21/2012	246.07	13.31	13.43	0.12	232.74	AS	0.198	
	7/18/2012	246.07	14.55	14.66	0.11	231.51	AS	0.449	
	8/16/2012	246.07	14.85	15.18	0.33	231.18	AS	0.66	
	9/24/2012	246.07	13.6	13.75	0.15	232.45	AS		
	10/8/2012	246.07	13.52	13.54	0.02	232.55	AS	0.185	
	10/24/2012	246.07	13.51	13.76	0.25	232.53	AS	0.159	
	11/19/2012	246.07	11.42	11.53	0.11	234.64	AS	0.185	
	12/14/2012	246.07	13.69	13.7	0.01	232.38	AS	0.145	
	1/7/2013	246.07	12.88	12.9	0.02	233.19	AS	0.145	
	1/11/2013	246.07		12.84		233.23	--		
	3/15/2013	246.07		9.91		236.16	AS	0.145	
	3/29/2013	246.07		12.64		233.43	AS	0.059	
	4/11/2013	246.07		13.15		232.92	AS	0.132	
	4/26/2013	246.07		13.74		232.33	AS	0.066	
	5/13/2013	246.07		12.95		233.12	AS		
	5/20/2013	246.07		13.21		232.86	--		
	5/24/2013	246.07		11.26		234.81	AS	0	
	6/10/2013	246.07		9.62		236.45	AS	0	
	8/2/2013	246.07		13.13		232.94	AS	0.007	
	9/4/2013	246.07		13.81		232.26	AS	0.066	
	9/16/2013	246.07		14.57		231.5	AS		
	10/30/2013	246.07	12.31	12.33	0	233.74	AS	0.079	
	11/21/2013	246.07		14.51		231.56	AS	0.04	
	12/19/2013	246.07	9.04	9.05	0	237.02	AS	0.106	
	12/23/2013	246.07		8.85		237.22	--		
	1/15/2014	246.07		8.64		237.43	--		
	3/10/2014	246.07		10.66		235.41	--		
	3/11/2014	246.07		10.66		235.41	AS	0.046	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/28/2014	246.07	12.09	12.1	0.01	233.98	AS	0.119	
	6/5/2014	246.07	9.93	10.18	0.25	236.11	AS	0.297	
	6/9/2014	246.07	10.94	10.96	0.02	235.13	--		
	6/25/2014	246.07	7.68	7.73	0.05	238.38	AS	0.225	
	7/17/2014	246.07	6.54	6.58	0.04	239.52	AS	0.251	
	8/7/2014	246.07		12.78		233.29	AS	0.132	
	9/15/2014	246.07	13	13.05	0.05	233.06	--		
	9/25/2014	246.07	13.86	13.87	0.01	232.21	AS	0.112	
	10/30/2014	246.07	13.45	13.53	0.08	232.61	AS	0.132	
	11/25/2014	246.07	14.67	14.75	0.08	231.39	AS	0.106	
	12/23/2014	246.07	12.68	12.69	0.01	233.39	AS	0.172	
	12/29/2014	246.07	10.98	12.24	1.26	234.93	AS	0.238	
	1/16/2015	246.07	11.91	12.02	0.11	234.05	AS	0.1585	
	2/13/2015	246.07	13.3	13.31	0.01	232.76	AS	0.2906	
	3/24/2015	246.07	9.91	12.33	2.42	233.74	AS	0.2642	
	3/24/2015	246.07	9.91	12.33	2.42	233.74	PP	0.918	
	4/15/2015	246.07		13.15		232.92	AS	0.1585	
	5/15/2015	246.07	13.38	13.4	0.02	232.67	AS	0.1981	
	6/23/2015	246.07	6.77	10.44	3.67	235.63	AS	0.4887	
	6/23/2015	246.07	6.77	10.44	3.67	235.63	PP	3.8305	
	7/30/2015	246.07	12.93	12.95	0.02	233.12	AS	0.225	
	8/24/2015	246.07	10.81	11.64	0.83	234.43	AS	0.132	
	9/21/2015	246.07	14.23	14.25	0.02	231.82	AS	0.198	
	10/27/2015	246.07	13.4	13.42	0.02	232.65	AS	0.1585	
	11/23/2015	246.07	11.57	11.71	0.14	234.36	AS	0.1321	
	12/28/2015	246.07		7.9		238.17	AS	0.2312	
	2/5/2016	246.07	4.48	4.6	0.12	241.47	AS	0.1453	
	2/18/2016	246.07	4.71	4.86	0.15	241.21	AS	0.2906	
	3/23/2016	246.07	10.91	11.29	0.38	234.78	AS	0.2113	
	4/27/2016	246.07	13.5	13.53	0.03	232.54	AS	0.1387	
	5/25/2016	246.07	6.84	9.14	0.36	236.93	--		
	6/2/2016	246.07	9.97	10.61	0.64	235.46	PP	0.3963	
	6/22/2016	246.07	5.88	5.9	0.02	240.17	--		
	7/28/2016	246.07	12.39	12.4	0.01	233.67	AS	0.0264	
	8/23/2016	246.07	6.48	6.7	0.22	239.37	AS	0.0528	
	9/26/2016	246.07	13.97	13.98	0.01	232.09	AS	0.0053	14.1126
MW-60	3/21/2012	245.57	13.19	13.26	0.07	232.37	--		
	3/27/2012	245.57	13.48	13.53	0.05	232.08	--		
	4/13/2012	245.57	14.1	14.11	0.01	231.47	AS	0.159	
	4/27/2012	245.57	13.98	14.02	0.04	231.58	AS	0.119	
	5/25/2012	245.57		12.85		232.72	AS	0.066	
	6/7/2012	245.57		12.48		233.09	AS	0.106	
	6/13/2012	245.57		12.82		232.75	AS	0.132	
	6/21/2012	245.57		13.27		232.3	AS	0.04	
	7/18/2012	245.57	14.3	14.4	0.1	231.26	AS	0.304	
	8/16/2012	245.57	14.5	14.52	0.02	231.07	AS	0.317	
	9/24/2012	245.57	13.56	13.57	0.01	232.01	AS		
	10/8/2012	245.57	13.6	13.61	0.01	231.97	AS	0.132	
	10/24/2012	245.57	13.48	13.56	0.08	232.08	AS	0.159	
	11/19/2012	245.57	12.27	12.31	0.04	233.29	AS	0.159	
	12/14/2012	245.57	13.6	13.65	0.05	231.96	AS	0.476	
	1/7/2013	245.57	12.97	13.02	0.05	232.59	AS	0.211	
	1/11/2013	245.57		12.8		232.77	--		
	3/1/2013	245.57	12.36	12.46	0.1	233.2	AS	0.172	
	3/15/2013	245.57	11.57	11.62	0.05	233.99	AS	0.225	
	3/29/2013	245.57	12.73	12.95	0.22	232.81	AS	0.145	
	4/11/2013	245.57	12.98	13.39	0.41	232.54	AS	0.264	
	4/26/2013	245.57	13.58	14.16	0.58	231.91	AS	0.145	
	5/13/2013	245.57	12.79	12.81	0.02	232.78	AS	0.264	
	5/20/2013	245.57	13.15	13.27	0.12	232.4	--		
	5/24/2013	245.57	12.68	13.35	0.67	232.8	AS	0.145	
	6/10/2013	245.57	12.14	12.16	0.02	233.43	AS	0.119	
	8/2/2013	245.57	13.59	13.6	0.01	231.98	AS	0.238	
	9/4/2013	245.57	14.16	15.1	0.94	231.29	AS	0.225	
	9/16/2013	245.57	14.54	15.46	0.92	230.91	AS		
	10/30/2013	245.57	13.48	13.65	0	231.92	AS	0.185	
	11/21/2013	245.57	14.36	14.68	0	230.89	AS	0.159	
	12/19/2013	245.57	12.14	12.23	0	233.34	AS	0.251	
	12/23/2013	245.57	12.24	12.29	0	233.28	--		
	1/15/2014	245.57	11.59	11.73	0.14	233.96	AS	0.172	
	2/18/2014	245.57	11.83	12.16	0.33	233.7	AS	0.324	
	3/10/2014	245.57	11.85	12.03	0.18	233.7	--		
	3/11/2014	245.57	11.85	12.03	0.18	233.7	AS	0.251	
	4/2/2014	245.57	11.29	11.5	0.21	234.25	AS	0.238	
	4/28/2014	245.57	12.54	12.89	0.35	232.98	AS	0.198	
	6/5/2014	245.57	11.95	12.51	0.56	233.55	AS	0.423	
	6/9/2014	245.57	12.35	12.74	0.39	233.17	--		
	6/25/2014	245.57	11.57	12.02	0.45	233.94	AS	0.317	
	7/17/2014	245.57	11.53	12.09	0.56	233.97	AS	0.225	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	8/7/2014	245.57	13.34	14.3	0.96	232.11	PP	0.528	
	8/7/2014	245.57	13.34	14.3	0.96	232.11	AS	0.449	
	9/15/2014	245.57	13.84	14.92	1.08	231.59	AS	0.132	
	9/25/2014	245.57	14.16	14.47	0.31	231.37	AS	0.726	
	10/2/2014	245.57	14.36	14.58	0.22	231.18	AS	0.225	
	10/30/2014	245.57	14.04	14.35	0.31	231.49	AS	0.159	
	11/25/2014	245.57	14.63	14.74	0.11	230.93	AS	0.317	
	12/23/2014	245.57	13.32	13.33	0.01	232.25	AS	0.211	
	12/29/2014	245.57	12.87	12.89	0.02	232.7	--		
	1/16/2015	245.57	12.87	12.94	0.07	232.63	AS	0.0925	
	2/13/2015	245.57	13.34	13.44	0.1	232.13	AS	0.2378	
	3/24/2015	245.57	12	12.11	0.11	233.46	AS	0.2642	
	4/15/2015	245.57	13.07	13.11	0.04	232.46	AS	0.2906	
	5/15/2015	245.57	13.26	13.42	0.16	232.15	AS	0.3566	
	6/23/2015	245.57	11.48	11.56	0.08	234.01	AS	0.3698	
	7/30/2015	245.57	13.38	13.98	0.6	231.59	AS	0.37	
	8/24/2015	245.57	13.49	13.74	0.25	231.83	AS	0.132	
	9/21/2015	245.57	14.68	15.4	0.72	230.17	AS	0.33	
	10/27/2015	245.57	13.74	13.89	0.15	231.68	AS	0.1849	
	11/23/2015	245.57	13.2	13.42	0.22	232.15	AS	0.0925	
	12/28/2015	245.57	12.14	12.31	0.17	233.26	AS	0.317	
	2/5/2016	245.57	10.28	10.62	0.34	234.95	AS	0.1717	
	2/18/2016	245.57	10.75	10.92	0.17	234.65	AS	0.3038	
	3/23/2016	245.57	12.13	12.62	0.49	232.95	AS	0.1849	
	4/27/2016	245.57	13.31	14.08	0.77	231.49	AS	0.5283	
	4/27/2016	245.57	13.31	14.08	0.77	231.49	PP	0.2549	
	5/25/2016	245.57	11.44	11.8		233.77	AS	0.1717	
	6/22/2016	245.57	12.28	12.59	0.31	232.98	AS	0.251	
	7/28/2016	245.57	13.4	14.12	0.72	231.45	AS	0.4227	
	8/23/2016	245.57	11.85	12.15	0.3	233.42	AS	0.3038	
	9/26/2016	245.57	13.99	14.7	0.71	230.87	AS	0.3963	15.839
MW-61	3/21/2012	245.63		13.28		232.35	--		
	3/27/2012	245.63	13.59	13.6	0.01	232.04	--		
	4/13/2012	245.63		14.18		231.45	--		
	4/27/2012	245.63		14.15		231.48	AS		
	5/25/2012	245.63		13.06		232.57	--		
	6/7/2012	245.63		12.64		232.99	AS		
	6/13/2012	245.63		12.9		232.73	--		
	7/18/2012	245.63		14.33		231.3	--		
	8/16/2012	245.63		14.54		231.09	--		
	9/24/2012	245.63		13.63		232	--		
	10/8/2012	245.63		13.63		232	--		
	10/24/2012	245.63	13.55	13.56	0.01	232.08	--		
	11/19/2012	245.63		12.51		233.12	AS		
	12/14/2012	245.63		13.95		231.68	AS	0	
	1/7/2013	245.63		13.27		232.36	--		
	1/11/2013	245.63		13.05		232.58	--		
	3/1/2013	245.63		12.67		232.96	AS	0.007	
	3/15/2013	245.63		11.69		233.94	AS		
	3/29/2013	245.63		12.86		232.77	AS	0.004	
	4/11/2013	245.63		13.13		232.5	AS	0.013	
	4/26/2013	245.63		13.73		231.9	AS	0.013	
	5/13/2013	245.63		12.9		232.73	AS	0	
	5/20/2013	245.63		13.23		232.4	--		
	5/24/2013	245.63		12.78		232.85	AS	0	
	6/10/2013	245.63		12.24		233.39	AS	0	
	8/2/2013	245.63		13.78		231.85	AS	0	
	9/4/2013	245.63		14.39		231.24	AS	0	
	9/16/2013	245.63		14.73		230.9	AS		
	10/30/2013	245.63		13.55		232.08	AS	0.007	
	11/21/2013	245.63		14.49		231.14	AS		
	12/19/2013	245.63		12.28		233.35	AS		
	12/23/2013	245.63		12.39		233.24	--		
	1/15/2014	245.63		11.71		233.92	--		
	3/10/2014	245.63		12.05		233.58	--		
	3/11/2014	245.63		12.06		233.57	AS		
	4/2/2014	245.63	11.6	11.65	0.05	234.02	AS	0.106	
	4/28/2014	245.63	12.7	12.71	0.01	232.93	AS	0.026	
	6/5/2014	245.63	12.1	12.16	0.06	233.52	AS	0.026	
	6/9/2014	245.63		12.46		233.17	--		
	6/25/2014	245.63		11.67		233.96	--		
	7/17/2014	245.63		11.73		233.9	--		
	8/7/2014	245.63		13.46		232.17	AS	0.026	
	9/15/2014	245.63		14.21		231.42	--		
	9/25/2014	245.63		14.32		231.31	--		
	10/30/2014	245.63		14.27		231.36	AS	0.02	
	11/25/2014	245.63	14.9	14.91	0.01	230.73	--	0.026	
	12/23/2014	245.63	13.5	13.51	0.01	232.13	AS	0.033	
	12/29/2014	245.63		13.04		232.59	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	1/16/2015	245.63		13.17		232.46	AS	0.0132	
	2/13/2015	245.63		13.51		232.12	--		
	3/24/2015	245.63		12.17		233.46	AS	0.1043	
	4/15/2015	245.63		13.32		232.31	--		
	5/15/2015	245.63		13.55		232.08	AS	0.0528	
	6/23/2015	245.63		11.64		233.99	--		
	7/30/2015	245.63	13.49	13.91	0.42	231.72	AS	0.145	
	8/24/2015	245.63	14.79	14.83	0.04	230.8	AS	0.092	
	9/21/2015	245.63	14.88	14.89	0.01	230.74	AS	0.145	
	10/27/2015	245.63		13.84		231.79	AS	0.066	
	11/23/2015	245.63		13.38		232.25	AS	0.0396	
	12/28/2015	245.63		12.3		233.33	AS	0.066	
	2/5/2016	245.63		8.22	0	237.41	AS	0.0528	
	2/18/2016	245.63		9.82	0	235.81	AS	0	
	3/23/2016	245.63		12.25		233.38	--		
	4/27/2016	245.63		13.52		232.11	AS	0.0013	
	5/25/2016	245.63		11.57		234.06	AS	0.004	
	6/22/2016	245.63		12.41		233.22	AS	0.0264	
	7/28/2016	245.63	13.6	13.64	0.04	231.99	AS	0.0013	
	8/23/2016	245.63		11.9		233.73	AS	0.066	
	9/26/2016	245.63	14.15	14.26	0.11	231.37	AS	0.0528	1.2355
MW-62	3/21/2012	246.08	13.45	15.89	2.44	232.31	--		
	3/27/2012	246.08	13.73	16.41	2.68	232	PP	2.404	
	4/13/2012	246.08	14.57	15.18	0.61	231.43	PS	0.793	
	4/27/2012	246.08	14.62	14.76	0.14	231.44	PS	0.793	
	5/11/2012	246.08	14.43	14.44	0.01	231.65	PS	0.476	
	5/25/2012	246.08	13.64	13.65	0.01	232.44	PS	0.066	
	6/7/2012	246.08		13.28		232.8	PS	0.007	
	6/13/2012	246.08		13.71		232.37	PS		
	6/21/2012	246.08	13.94	13.95	0.01	232.14	PS	0	
	7/3/2012	246.08	14.66	14.74	0.08	231.41	PS	0	
	7/18/2012	246.08	14.96	14.97	0.01	231.12	PS	0.225	
	8/16/2012	246.08	15.15	15.18	0.03	230.93	AS	0.251	
	9/24/2012	246.08	14.2	14.22	0.02	231.88	PS		
	10/8/2012	246.08	14.25	14.26	0.01	231.83	AS	0.132	
	10/24/2012	246.08	14.13	14.15	0.02	231.95	AS	0.145	
	11/19/2012	246.08		12.97		233.11	AS	0.04	
	12/14/2012	246.08		14.26		231.82	AS	0.026	
	1/7/2013	246.08		13.64		232.44	AS	0.092	
	1/11/2013	246.08		13.45		232.63	--		
	2/6/2013	246.08		12.44		233.64	AS	0.033	
	3/1/2013	246.08		13.06		233.02	AS	0.026	
	3/15/2013	246.08		12.28		233.8	AS		
	3/29/2013	246.08		13.43		232.65	AS		
	4/11/2013	246.08		13.69		232.39	AS		
	4/26/2013	246.08		14.27		231.81	AS		
	5/13/2013	246.08		13.48		232.6	AS	0.053	
	5/20/2013	246.08		13.82		232.26	--		
	5/24/2013	246.08		12.7		233.38	AS	0.007	
	6/10/2013	246.08		12.83		233.25	AS	0	
	8/2/2013	246.08		14.32		231.76	AS	0.066	
	9/4/2013	246.08	14.88	14.92	0.04	231.19	AS	0.119	
	9/16/2013	246.08	15.25	15.27	0.02	230.83	AS		
	10/30/2013	246.08		14.12		231.96	AS	0.119	
	11/21/2013	246.08		15.02		231.06	AS	0.013	
	12/19/2013	246.08		12.89		233.19	AS	0.026	
	12/23/2013	246.08		12.93		233.15	--		
	1/15/2014	246.08		12.31		233.77	AS	0.04	
	2/18/2014	246.08	12.56	12.73	0.17	233.5	AS	0.013	
	3/10/2014	246.08		12.56		233.52	--		
	3/11/2014	246.08		12.51		233.57	AS	0.053	
	4/2/2014	246.08		12.08		234	AS	0.026	
	4/28/2014	246.08		13.21		232.87	--		
	6/5/2014	246.08		12.67		233.41	AS		
	6/9/2014	246.08		13.02		233.06	--		
	6/25/2014	246.08		12.27		233.81	--		
	7/17/2014	246.08		12.31		233.77	--		
	8/7/2014	246.08	13.97	13.98	0.01	232.11	AS	0.053	
	9/15/2014	246.08	14.54	14.62	0.08	231.53	--		
	9/25/2014	246.08	14.81	14.82	0.01	231.27	AS	0.106	
	10/30/2014	246.08		14.74		231.34	AS	0.059	
	11/25/2014	246.08		15.27		230.81	AS	0.053	
	12/23/2014	246.08		14.02		232.06	AS	0.053	
	12/29/2014	246.08		13.52		232.56	--		
	1/16/2015	246.08		13.59		232.49	AS	0.0132	
	2/13/2015	246.08		13.99		232.09	--		
	3/24/2015	246.08		12.75		233.33	AS	0.0462	
	4/15/2015	246.08		13.73		232.35	--		
	5/15/2015	246.08		13.92		232.16	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method SP, PS, PP, or AS	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/23/2015	246.08		12.25		233.83	--		
	7/30/2015	246.08	13.98	14.05	0.07	232.03	AS	0.04	
	8/24/2015	246.08	14.18	14.26	0.08	231.82	--		
	9/21/2015	246.08	15.34	15.95	0.61	230.13	AS	0.066	
	10/27/2015	246.08		14.35		231.73	AS	0.0198	
	11/23/2015	246.08		13.89		232.19	--		
	12/28/2015	246.08		12.95		233.13	AS	0.0198	
	2/5/2016	246.08		11.22	0	234.86	AS	0.0013	
	2/18/2016	246.08		11.56	0	234.52	AS	0.0026	
	3/23/2016	246.08		12.83	0	233.25	AS	0.0528	
	4/27/2016	246.08	14.03	14.06	0.03	232.02	AS	0.1453	
	5/25/2016	246.08		12.18		233.9	AS	0.0462	
	6/22/2016	246.08		12.96		233.12	AS	0.0396	
	7/28/2016	246.08	13.12	13.13	0.01	232.95	AS	0.0925	
	8/23/2016	246.08		12.58		233.5	AS	0.0528	
	9/26/2016	246.08	14.64	14.65	0.01	231.43	AS	0.0793	7.0854
MW-63	3/21/2012	246.25	14.12	14.2	0.08	232.12	--		
	3/27/2012	246.25	14.38	14.77	0.39	231.82	--		
	4/13/2012	246.25	14.94	15.22	0.28	231.27	AS	0.317	
	4/27/2012	246.25	14.94	15.04	0.1	231.3	AS	0.159	
	5/25/2012	246.25		13.9		232.35	AS	0.185	
	6/7/2012	246.25	13.52	13.68	0.16	232.71	AS	0.528	
	6/13/2012	246.25	13.69	14.24	0.55	232.49	AS	0.211	
	6/21/2012	246.25	14.2	14.85	0.65	231.97	AS	1.169	
	7/3/2012	246.25	14.86	15.9	0.96	231.19	AS	0.132	
	7/18/2012	246.25	15.29	15.7	0.41	230.91	AS	0.766	
	8/1/2012	246.25	15.18	15.2	0.02	231.07	AS	0.793	
	8/16/2012	246.25	15.52	15.58	0.06	230.72	PS	0.059	
	9/7/2012	246.25	15.78	15.93	0.15	230.45	PS		
	9/24/2012	246.25	14.62	14.66	0.04	231.62	AS		
	10/8/2012	246.25	14.54	15.05	0.51	231.64	PS	0.026	
	10/24/2012	246.25	14.41	15.02	0.61	231.76	PS	0.66	
	11/19/2012	246.25	13.33	13.4	0.07	232.91	PS	0.726	
	12/14/2012	246.25	14.51	15.19	0.68	231.65	PS	0.793	
	1/7/2013	246.25	14.04	14.18	0.14	232.19	PS	0.793	
	1/11/2013	246.25		13.88		232.37	--		
	2/6/2013	246.25	12.79	13.39	0.6	233.38	PP	1.257	
	3/1/2013	246.25	13.28	13.96	0.68	232.88	PS	0.026	
	3/15/2013	246.25	12.61	12.96	0.35	233.59	PS	0.793	
	3/29/2013	246.25	13.67	14.09	0.42	232.53	PS	0.766	
	4/11/2013	246.25	14.08	14.28	0.2	232.14	PS	0.806	
	4/26/2013	246.25	14.52	14.99	0.47	231.67	PS	0.793	
	5/13/2013	246.25	13.77	13.79	0.02	232.48	PS	0.793	
	5/20/2013	246.25	14.06	14.15	0.09	232.18	--		
	5/24/2013	246.25	13.82	13.85	0.03	232.43	PS	0.066	
	6/10/2013	246.25	13.28	13.62	0.34	232.93	PS	0.066	
	8/2/2013	246.25		14.44		231.81	PS	0.793	
	9/4/2013	246.25	15.05	16.77	1.72	230.98	PS	0.489	
	9/16/2013	246.25	15.45	16.65	1.2	230.64	PS		
	10/30/2013	246.25	14.41	15.14	1	231.98	PS	0.793	
	11/21/2013	246.25	15.25	16.23	1	230.89	AS	0.04	
	12/19/2013	246.25	13.33	13.52	0	232.73	PS	0.793	
	12/23/2013	246.25	13.28	13.3	0	232.95	PS	0.793	
	1/15/2014	246.25	12.7	12.99	0.29	233.51	PS	0.053	
	2/18/2014	246.25	12.84	13.52	0.68	233.32	PS	0.793	
	3/10/2014	246.25	13.29	13.9	0.61	232.88	PS	0.793	
	3/11/2014	246.25	13.31	13.91	0.6	232.86	PS	0.793	
	4/2/2014	246.25					PP	1.658	
	4/2/2014	246.25	12.29	13.5	1.21	233.8	PS	0.793	
	4/28/2014	246.25	13.61	14.02	0.41	232.59	PS	0.74	
	6/5/2014	246.25	13.11	13.89	0.78	233.04	PS	0.793	
	6/9/2014	246.25	13.75	14.24	0.49	232.44	--		
	6/25/2014	246.25	12.68	13.4	0.72	233.48	PS	0.793	
	7/17/2014	246.25	12.8	13.81	1.01	233.32	PP	0.654	
	7/17/2014	246.25	12.8	13.81	1.01	233.32	PS	0.793	
	8/7/2014	246.25	14.2	16.14	1.94	231.8	PS	0.726	
	8/7/2014	246.25	14.2	16.14	1.94	231.8	PP	0.626	
	9/15/2014	246.25	15.58	16.65	2.07	231.4	--		
	9/25/2014	246.25	15.21	16.73	1.52	230.84	PS	0.806	
	10/2/2014	246.25	15.02	16.55	1.53	231.03	PS	0.449	
	10/2/2014	246.25	15.02	16.55	1.53	231.03	PP	1.347	
	10/30/2014	246.25	14.9	16.39	1.49	231.16	PP	0.723	
	10/30/2014	246.25	14.9	16.39	1.49	231.16	PS	0.013	
	11/25/2014	246.25	15.51	16.89	1.38	230.56	PP	0.218	
	11/25/2014	246.25	15.51	16.89	1.38	230.56	PS	0.423	
	12/23/2014	246.25	14.25	15.72	1.47	231.81	PS	0.74	
	12/23/2014	246.25	14.25	15.72	1.47	231.81	PP	1.585	
	12/29/2014	246.25	13.99	14.02	0.03	232.26	PS	0.608	
	1/16/2015	246.25	13.95	14.37	0.42	231.88	PS	0.1981	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/13/2015	246.25	14.22	15.52	1.3	230.73	PP	0.4227	
	2/13/2015	246.25	14.22	15.52	1.3	230.73	PS	0.5151	
	3/24/2015	246.25	13.11	14.11	1	232.14	PP	1.585	
	3/24/2015	246.25	13.11	14.11	1	232.14	PS	0.0132	
	4/15/2015	246.25	13.96	15.28	1.32	230.97	PS	0.0264	
	4/15/2015	246.25	13.96	15.28	1.32	230.97	PP	1.4265	
	5/15/2015	246.25	14.28	14.51	0.23	231.74	PS	0.7397	
	6/23/2015	246.25	12.66	14	1.34	232.25	PS	0.7925	
	7/30/2015	246.25	14.44	16.15	1.71	230.1	PS	0.793	
	7/30/2015	246.25	14.44	16.15	1.71	230.1	PP	0.74	
	8/24/2015	246.25	14.44	16.1	1.66	230.15	PS	0.793	
	8/24/2015	246.25	14.44	16.1	1.66	230.15	PP	0.793	
	9/21/2015	246.25	15.63	16.72	1.09	229.53	PS	0.166	
	10/27/2015	246.25	14.65	15.65	1	230.6	PS	0.7925	
	11/23/2015	246.25	14.18	16	1.82	230.25	PS	0.7925	
	11/23/2015	246.25	14.18	16	1.82	230.25	PP	1.1888	
	12/28/2015	246.25		13.22		233.03	PS	0.5416	
	2/5/2016	246.25	11.44	12.05	0.61	234.2	PS	0.6208	
	2/5/2016	246.25	11.44	12.05	0.61	234.2	PP	2.6417	
	2/18/2016	246.25	11.93	12.32	0.39	233.93	PS	0.7925	
	3/23/2016	246.25	13.17	13.9	0.73	232.35	PS	0.7397	
	4/27/2016	246.25	14.41	16.38	1.97	229.87	PS	0.7925	
	4/27/2016	246.25	14.41	16.38	1.97	229.87	PP	1.9813	
	5/25/2016	246.25	12.83	13.4	0.57	232.85	PS		
	6/22/2016	246.25	13.28	14.78	1.5	231.47	PS	0.7291	
	6/22/2016	246.25	13.28	14.78	1.5	231.47	PP	1.7171	
	7/28/2016	246.25	14.35	16.21	1.86	230.04	PP	1.9285	
	7/28/2016	246.25	14.35	16.21	1.86	230.04	PS	0.7529	
	8/23/2016	246.25	13.21	13.75	0.54	232.5	PS	0.7001	
	9/26/2016	246.25	15.02	16.53	1.51	229.72	PP	1.5322	
	9/26/2016	246.25	15.02	16.53	1.51	229.72	PS	0.7925	61.3445
MW-64	3/21/2012	245.45		4.39		241.06	--		
	3/27/2012	245.45		4.57		240.88	--		
	4/13/2012	245.45		13.2		232.25	--		
	4/27/2012	245.45		8.45		237	--		
	5/25/2012	245.45		4.21		241.24	--		
	6/7/2012	245.45		4.19		241.26	--		
	6/13/2012	245.45		4.28		241.17	--		
	8/16/2012	245.45		12.24		233.21	--		
	9/24/2012	245.45		4.31		241.14	--		
	12/14/2012	245.45		7.25		238.2	--		
	1/11/2013	245.45		4.35		241.1	--		
	4/26/2013	245.45		7.37		238.08	--		
	5/20/2013	245.45		4.5		240.95	--		
	6/28/2013	245.45		4.26		241.19	--		
	8/2/2013	245.45		8.31		237.14	--		
	9/4/2013	245.45		12.72		232.73	--		
	9/16/2013	245.45		13.87		231.58	--		
	10/30/2013	245.45		4.35		241.1	--		
	11/21/2013	245.45		13.56		231.89	--		
	12/19/2013	245.45		4.22		241.23	--		
	12/23/2013	245.45		4.13		241.32	--		
	1/15/2014	245.45		7.11		238.34	--		
	3/10/2014	245.45		4.26		241.19	--		
	4/28/2014	245.45		4.28		241.17	--		
	6/5/2014	245.45		4.24		241.21	--		
	6/9/2014	245.45		4.28		241.17	--		
	6/25/2014	245.45		4.1		241.35	--		
	7/17/2014	245.45		4.12		241.33	--		
	8/7/2014	245.45		4.36		241.09	--		
	9/15/2014	245.45		4.45		241	--		
	9/25/2014	245.45		12.24		233.21	--		
	10/30/2014	245.45		4.49		240.96	--		
	11/25/2014	245.45		13.09		232.36	--		
	12/23/2014	245.45		4.34		241.11	--		
	12/29/2014	245.45		4.27		241.18	--		
	1/16/2015	245.45		4.31		241.14	--		
	2/13/2015	245.45		4.33		241.12	--		
	3/24/2015	245.45		4.27		241.18	--		
	4/15/2015	245.45		4.32		241.13	--		
	5/15/2015	245.45		4.38		241.07	--		
	6/23/2015	245.45		4.16		241.29	--		
	7/30/2015	245.45		4.34		241.11	--		
	8/24/2015	245.45		4.32		241.13	--		
	9/21/2015	245.45		5.34		240.11	--		
	11/23/2015	245.45		4.3		241.15	--		
	12/28/2015	245.45		4.22		241.23	--		
	3/23/2016	245.45		4.27		241.18	--		
	6/22/2016	245.45		4.2		241.25	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)	
MW-65	9/26/2016	245.45		6.42		239.03	--		0	
	3/21/2012	245.54		5.38		240.16	--			
	3/27/2012	245.54		5.61		239.93	--			
	4/13/2012	245.54		10.83		234.71	--			
	4/27/2012	245.54					--			
	5/25/2012	245.54		5.49		240.05	--			
	6/7/2012	245.54		4.81		240.73	--			
	6/13/2012	245.54		4.74		240.8	--			
	8/16/2012	245.54		5.5		240.04	--			
	9/24/2012	245.54		4.64		240.9	--			
	12/14/2012	245.54		5.43		240.11	--			
	1/11/2013	245.54		5.42		240.12	--			
	4/26/2013	245.54		6.97		238.57	--			
	5/20/2013	245.54		6.89		238.65	--			
	6/28/2013	245.54		4.99		240.55	--			
	8/2/2013	245.54		7.89		237.65	--			
	9/4/2013	245.54		13.13		232.41	--			
	9/16/2013	245.54		14.02		231.52	--			
	10/30/2013	245.54		5.4		240.14	--			
	11/21/2013	245.54		13.35		232.19	--			
	12/19/2013	245.54		5.73		239.81	--			
	12/23/2013	245.54		5.53		240.01	--			
	1/15/2014	245.54		5.72		239.82	--			
	3/10/2014	245.54		6.11		239.43	--			
	4/28/2014	245.54		7.13		238.41	--			
	6/5/2014	245.54		5.94		239.6	--			
	6/9/2014	245.54		6.31		239.23	--			
	6/25/2014	245.54		4.49		241.05	--			
	7/17/2014	245.54		4.65		240.89	--			
	8/7/2014	245.54		6.56		238.98	--			
	9/15/2014	245.54		10.89		234.65	--			
	9/25/2014	245.54		10.65		234.89	--			
	10/30/2014	245.54		11.33		234.21	--			
	11/25/2014	245.54		13.41	0.07	232.19	--	0.066		
	12/23/2014	245.54		8.32		237.22	AS	0.066		
	12/29/2014	245.54		7.92		237.62	--			
	1/16/2015	245.54		8.13		237.41	AS	0.0396		
	2/13/2015	245.54		8.1		237.44	--			
	3/24/2015	245.54		5.24		240.3	--			
	4/15/2015	245.54		7.06		238.48	--			
	5/15/2015	245.54		7.98		237.56	--			
	6/23/2015	245.54		4.66		240.88	--			
	7/30/2015	245.54		5.55		239.99	--			
	8/24/2015	245.54		7.15		238.39	--			
	9/21/2015	245.54		12.6		232.94	--			
10/27/2015	245.54		6.26		239.28	--				
11/23/2015	245.54		7.66		237.88	--				
12/28/2015	245.54		6.07		239.47	--				
2/5/2016	245.54					--				
2/18/2016	245.54			4.04	0	241.5	AS	0		
3/23/2016	245.54			5.35		240.19	--			
4/27/2016	245.54			8.4		237.14	--			
5/25/2016	245.54			5.02		240.52	--			
6/22/2016	245.54			5.22		240.32	--			
7/28/2016	245.54			7.18		238.36	AS			
8/23/2016	245.54		4.23		241.31	--				
9/26/2016	245.54		8.65	8.66	0.01	236.88	AS	0.0026	0.1742	
MW-67	1/11/2013	245.83		13.27		232.56	--			
	3/1/2013	245.83		12.84		232.99	--			
	4/26/2013	245.83		13.9		231.93	--			
	5/20/2013	245.83		13.28		232.55	--			
	6/28/2013	245.83		12.47		233.36	--			
	8/2/2013	245.83		13.95		231.88	--			
	9/4/2013	245.83		14.52		231.31	--			
	9/16/2013	245.83		14.83		231	--			
	10/30/2013	245.83		13.87		231.96	--			
	11/21/2013	245.83		14.69		231.14	--			
	12/19/2013	245.83		4.46		241.37	--			
	12/23/2013	245.83		12.49		233.34	--			
	1/15/2014	245.83		11.81		234.02	--			
	3/10/2014	245.83		12.05		233.78	--			
	4/28/2014	245.83		12.79	12.85	0.06	233.03	AS	0.092	
	6/9/2014	245.83					--			
	6/25/2014	245.83		12.01	12.02	0.01	233.82	AS	0.066	
7/17/2014	245.83		11.98	12.04	0.06	233.84	AS	0.119		
8/7/2014	245.83		13.56	13.86	0.3	232.23	AS	0.013		
9/15/2014	245.83		14.38	14.44	0.06	231.44	--			
9/25/2014	245.83		14.67	14.71	0.04	231.15	AS	0.112		
10/2/2014	245.83		14.66	14.7	0.04	231.16	AS	0.099		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	10/30/2014	245.83		14.5		231.33	AS	0.092	
	11/25/2014	245.83	15.03	15.04	0.01	230.8	AS	0.053	
	12/23/2014	245.83		13.39		232.44	AS	0	
	12/29/2014	245.83		13.06		232.77	--		
	1/16/2015	245.83		13.16		232.67	--		
	2/13/2015	245.83		13.72		232.11	--		
	3/24/2015	245.83		12.24		233.59	--		
	4/15/2015	245.83		13.28		232.55	--		
	5/15/2015	245.83		13.51		232.32	--		
	6/23/2015	245.83		11.66		234.17	--		
	7/30/2015	245.83	13.59	13.62	0.03	232.21	AS	0.026	
	8/24/2015	245.83	14.71	14.72	0.01	231.11	--		
	9/21/2015	245.83	14.89	14.92	0.03	230.91	AS		
	10/27/2015	245.83		13.99		231.84	--		
	11/23/2015	245.83		13.43		232.4	--		
	12/28/2015	245.83		12.42		233.41	--		
	2/5/2016	245.83					--		
	2/18/2016	245.83					--		
	3/23/2016	245.83		12.33		233.5	--		
	4/27/2016	245.83		13.64		232.19	--		
	5/25/2016	245.83		11.65		234.18	--		
	6/22/2016	245.83		12.55		233.28	--		
	7/28/2016	245.83		13.79		232.04	AS	0.0132	
	8/23/2016	245.83		12.09		233.74	--		
	9/26/2016	245.83	14.31	14.32	0.01	231.51	PS	0.0066	0.6918
MW-68	1/11/2013	245.09		4.68		240.41	--		
	3/1/2013	245.09		4.56		240.53	--		
	4/26/2013	245.09		5.54		239.55	--		
	5/20/2013	245.09		5.4		239.69	--		
	6/28/2013	245.09		4.32		240.77	--		
	8/2/2013	245.09		5.15		239.94	--		
	9/4/2013	245.09		5.51		239.58	--		
	9/16/2013	245.09		6.68		238.41	--		
	10/30/2013	245.09		4.49		240.6	--		
	11/21/2013	245.09		5.68		239.41	--		
	12/19/2013	245.09		12.38		232.71	--		
	12/23/2013	245.09		4.22		240.87	--		
	1/15/2014	245.09		6.21		238.88	--		
	3/10/2014	245.09		4.28		240.81	--		
	4/28/2014	245.09		4.69		240.4	--		
	6/5/2014	245.09		3.98		241.11	--		
	6/9/2014	245.09		4.18		240.91	--		
	6/25/2014	245.09		3.45		241.64	--		
	7/17/2014	245.09		3.8		241.29	--		
	8/7/2014	245.09		4.54		240.55	--		
	9/15/2014	245.09		6.53		238.56	--		
	9/25/2014	245.09		12.83		232.26	--		
	10/30/2014	245.09		13.44		231.65	--		
	11/25/2014	245.09		14.04		231.05	--		
	12/23/2014	245.09		12.63		232.46	--		
	12/29/2014	245.09		11.11		233.98	--		
	1/16/2015	245.09		11.56		233.53	--		
	2/13/2015	245.09		12.76		232.33	--		
	3/24/2015	245.09		4.63		240.46	--		
	4/15/2015	245.09		5.78		239.31	--		
	5/15/2015	245.09		11.94		233.15	--		
	6/23/2015	245.09		4.11		240.98	--		
	7/30/2015	245.09		4.86		240.23	--		
	8/24/2015	245.09	5.43	5.44	0.01	239.65	AS		
	9/21/2015	245.09		14.11		230.98	--		
	11/23/2015	245.09		5.48		239.61	--		
	12/28/2015	245.09		5.09		240	--		
	3/23/2016	245.09		4.31		240.78	--		
	6/22/2016	245.09		4.26		240.83	--		
	9/26/2016	245.09		7.33		237.76	--		0
MW-69	1/11/2013	244.98		12.96		232.02	--		
	3/1/2013	244.98		12.44		232.54	--		
	4/26/2013	244.98		12.58		232.4	--		
	5/20/2013	244.98		13.08		231.9	--		
	6/28/2013	244.98		12.3		232.68	--		
	8/2/2013	244.98		13.63		231.35	--		
	9/4/2013	244.98		14.24		230.74	--		
	9/16/2013	244.98		14.58		230.4	--		
	10/30/2013	244.98		13.49		231.49	--		
	11/21/2013	244.98		14.38		230.6	--		
	12/19/2013	244.98		12.52		232.46	--		
	12/23/2013	244.98		12.35		232.63	--		
	1/15/2014	244.98		11.97		233.01	--		
	2/18/2014	244.98		12.07		232.91	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/10/2014	244.98		12.12		232.86	--		
	4/28/2014	244.98		12.64		232.34	--		
	6/5/2014	244.98		12.11		232.87	--		
	6/9/2014	244.98		12.45		232.53	--		
	6/25/2014	244.98		11.81		233.17	--		
	7/17/2014	244.98		11.9		233.08	--		
	8/7/2014	244.98		13.36		231.62	--		
	9/15/2014	244.98		13.86		231.12	--		
	9/25/2014	244.98		13.12		231.86	--		
	10/30/2014	244.98		14.13		230.85	--		
	11/25/2014	244.98					--		
	12/29/2014	244.98		13.02		231.96	--		
	1/16/2015	244.98		13.02		231.96	--		
	2/13/2015	244.98		13.41		231.57	--		
	3/24/2015	244.98		12.24		232.74	--		
	4/15/2015	244.98		13.02		231.96	--		
	5/15/2015	244.98		13.3		231.68	--		
	6/23/2015	244.98		11.96		233.02	--		
	7/30/2015	244.98		13.38		231.6	--		
	8/24/2015	244.98		13.72		231.26	--		
	9/21/2015	244.98		14.69		230.29	--		
	10/27/2015	244.98		13.89		231.09	--		
	11/23/2015	244.98		13.28		231.7	--		
	12/28/2015	244.98		12.48		232.5	--		
	2/5/2016	244.98					--		
	3/23/2016	244.98		12.25		232.73	--		
	6/22/2016	244.98		12.19		232.79	--		
	9/26/2016	244.98		13.95		231.03	--		0
MW-70	1/11/2013	245.57		13.43		232.14	--		
	3/1/2013	245.57	12.89	12.97	0.08	232.67	AS	0.013	
	3/15/2013	245.57		12.41		233.16	AS	0.119	
	3/29/2013	245.57	13.1	13.25	0.15	232.45	AS	0.059	
	4/11/2013	245.57		13.41		232.16	--		
	4/26/2013	245.57	13.92	13.93	0.01	231.65	AS	0.007	
	5/13/2013	245.57		13.24		232.33	--		
	5/20/2013	245.57		13.51		232.06	--		
	5/24/2013	245.57		13.13		232.44	--		
	6/10/2013	245.57		12.86		232.71	--		
	8/2/2013	245.57		13.8		231.77	--		
	9/4/2013	245.57	14.4	14.69	0.29	231.13	--		
	9/12/2013	245.57		14.53		231.04	--		
	9/16/2013	245.57	14.73	15.01	0.28	230.8	PP	0.129	
	10/30/2013	245.57	13.81	13.88	0	231.69	AS	0.026	
	11/21/2013	245.57	14.65	14.68	0	230.89	--		
	12/19/2013	245.57		13.03		232.54	--		
	12/23/2013	245.57		12.88		232.69	--		
	1/15/2014	245.57		12.38		233.19	--		
	2/18/2014	245.57		12.52		233.05	--		
	3/10/2014	245.57		12.63		232.94	--		
	3/11/2014	245.57		9.62		235.95	--		
	4/28/2014	245.57		13.06		232.51	--		
	6/5/2014	245.57		12.61		232.96	--		
	6/9/2014	245.57		12.89		232.68	--		
	6/25/2014	245.57		12.28		233.29	--		
	7/17/2014	245.57		12.37		233.2	--		
	8/7/2014	245.57		13.65		231.92	--		
	9/15/2014	245.57		14.16		231.41	--		
	9/25/2014	245.57		14.45		231.12	--		
	10/30/2014	245.57		14.4		231.17	--		
	11/25/2014	245.57		14.77		230.8	--		
	12/23/2014	245.57		13.84		231.73	--		
	12/29/2014	245.57		13.59		231.98	--		
	1/16/2015	245.57		14.54		231.03	--		
	2/13/2015	245.57		13.8		231.77	--		
	3/24/2015	245.57		12.78		232.79	--		
	4/15/2015	245.57		13.44		232.13	--		
	5/15/2015	245.57		13.66		231.91	--		
	6/23/2015	245.57		12.52		233.05	--		
	7/30/2015	245.57		13.7		231.87	--		
	8/24/2015	245.57		14.1		231.47	--		
	9/21/2015	245.57		14.92		230.65	--		
	10/27/2015	245.57		14.19		231.38	--		
	11/23/2015	245.57		13.74		231.83	--		
	12/28/2015	245.57		13.02		232.55	--		
	2/5/2016	245.57		11.28	0	234.29	AS	0	
	2/18/2016	245.57		11.57		234	--		
	3/23/2016	245.57		12.69		232.88	--		
	4/27/2016	245.57		13.74		231.83	--		
	5/25/2016	245.57		12.12		233.45	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	6/22/2016	245.57		11.18		234.39	--		
	7/28/2016	245.57		13.28		232.29	--		
	8/23/2016	245.57		12.53		233.04	--		
	9/26/2016	245.57		14.23		231.34	--		0.353
MW-71	11/25/2014			15.23			--		
	12/29/2014	246.21		14		232.21	--		
	1/16/2015	246.21		14.02		232.19	--		
	2/13/2015	246.21		13.22		232.99	--		
	3/24/2015	246.21		13.24		232.97	--		
	4/15/2015	246.21		13.21		233	--		
	5/15/2015	246.21		14.08		232.13	--		
	6/24/2015	246.21		12.98		233.23	--		
	7/30/2015	246.21		14.11		232.1	--		
	8/24/2015	246.21		14.4		231.81	--		
	9/21/2015	246.21		15.61		230.6	--		
	11/23/2015	246.21		14.17		232.04	--		
	12/28/2015	246.21		13.5		232.71	--		
	2/5/2016	246.21		12		234.21	--		
	2/18/2016	246.21		12.01		234.2	--		
	3/23/2016	246.21		13.18		233.03	--		
	4/27/2016	246.21		14.18		232.03	--		
	5/25/2016	246.21		12.73		233.48	--		
	6/22/2016	246.21		13.1		233.11	--		
	7/28/2016	246.21		14.2		232.01	--		
	8/23/2016	246.21		13.07		233.14	--		
	9/26/2016	246.21		14.64		231.57	--		0
EW-1	7/22/2009	243.5		8.78		234.72	--		
	8/18/2009	243.5	13.04	13.05	0.01	230.46	PP	0.026	
	9/18/2009	243.5		8.59		234.91	--		
	10/6/2009	243.5		8.85		234.65	--		
	10/19/2009	243.5		9.79		233.71	--		
	11/5/2009	243.5		11.41		232.09	--		
	12/4/2009	243.5		11.49		232.01	--		
	1/20/2010	243.5		7.35		236.15	--		
	3/1/2010	243.5		10.2		233.3	--		
	4/5/2010	243.5		8.11		235.39	--		
	5/3/2010	243.5		6.19		237.31	--		
	5/26/2010	243.5		8.72		234.78	--		
	6/15/2010	243.5		8.33		235.17	--		
	7/30/2010	243.5		8.74		234.76	--		
	9/2/2010	243.5		15.12		228.38	--		
	9/21/2010	243.5		14.8		228.7	--		
	10/13/2010	243.5		8.9		234.6	--		
	11/4/2010	243.5					--		
	12/10/2010	243.5		7.39		236.11	--		
	2/14/2011	243.5		7.35		236.15	--		
	4/13/2011	243.5					--		
	5/26/2011	243.5		7.28		236.22	--		
	6/15/2011	243.5		7.37		236.13	--		
	7/14/2011	243.5		7.46		236.04	--		
	8/8/2011	243.5		7.71		235.79	--		
	9/14/2011	243.5		7.35		236.15	--		
	10/25/2011	243.5					--		
	12/15/2011	243.5					--		
	1/27/2012	243.5					--		
	2/7/2012	243.5					--		
	2/28/2012	243.5		7.78		235.72	--		
	3/21/2012	243.5		7.71		235.79	--		
	4/13/2012	243.5		7.82		235.68	--		
	5/25/2012	243.5		7.55		235.95	--		
	6/13/2012	243.5		7.59		235.91	--		
	8/16/2012	243.5		7.49		236.01	--		
	9/24/2012	243.5		7.31		236.19	--		
	12/14/2012	243.5		7.66		235.84	--		
	1/11/2013	243.5		7.43		236.07	--		
	3/1/2013	243.5		7.31		236.19	--		
	4/26/2013	243.5		7.7		235.8	--		
	5/20/2013	243.5		7.4		236.1	--		
	6/28/2013	243.5		7.32		236.18	--		
	8/2/2013	243.5		7.49		236.01	--		
	9/4/2013	243.5		7.58		235.92	--		
	9/16/2013	243.5		7.75		235.75	--		
	10/30/2013	243.5		7.45		236.05	--		
	3/10/2014	243.5		7.41		236.09	--		
	4/28/2014	243.5		7.37		236.13	--		
	6/5/2014	243.5		7.35		236.15	--		
	6/9/2014	243.5		4		239.5	--		
	6/25/2014	243.5		7.32		236.18	--		
	7/17/2014	243.5		7.21		236.29	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	8/7/2014	243.5		7.47		236.03	--		
	9/15/2014	243.5		7.49		236.01	--		
	9/25/2014	243.5		7.59		235.91	--		
	11/25/2014	243.5		7.84		235.66	--		
	12/29/2014	243.5		7.33		236.17	--		
	1/16/2015	243.5		7.36		236.14	--		
	2/13/2015	243.5		7.66		235.84	--		
	3/24/2015	243.5		7.35		236.15	--		
	4/15/2015	243.5		5.98		237.52	--		
	5/15/2015	243.5		7.62		235.88	--		
	6/23/2015	243.5		7.27		236.23	--		
	7/30/2015	243.5		9.49		234.01	--		
	8/24/2015	243.5		7.68		235.82	--		
	9/21/2015	243.5		7.77		235.73	--		
	10/27/2015	243.5		7.59		235.91	--		
	11/23/2015	243.5		7.49		236.01	--		
	12/28/2015	243.5		7.35		236.15	--		
	2/5/2016	243.5					--		
	2/18/2016	243.5		7.24		236.26	--		
	3/23/2016	243.5		7.41		236.09	--		
	4/27/2016	243.5		7.65		235.85	--		
	5/25/2016	243.5		7.29		236.21	--		
	6/22/2016	243.5		7.17		236.33	--		
	7/28/2016	243.5		7.41		236.09	--		
	8/23/2016	243.5		7.29		236.21	--		
	9/26/2016	243.5		7.64		235.86	--		0.026
EW-2	7/22/2009	243.3		13.03		230.27	--		
	9/18/2009	243.3	13.49	13.5	0.01	229.81	AS	0.003	
	10/6/2009	243.3	13.71	13.73	0.02	229.59	AS		
	10/19/2009	243.3	12.99	13.02	0.03	230.31	AS	0.005	
	11/5/2009	243.3		12.09		231.21	--		
	12/4/2009	243.3		11.96		231.34	--		
	12/16/2009	243.3		11.1		232.2	--		
	1/20/2010	243.3		11.37		231.93	--		
	2/16/2010	243.3		11.9		231.4	--		
	4/5/2010	243.3		10.44		232.86	--		
	5/3/2010	243.3		11.05		232.25	--		
	5/26/2010	243.3		10.93		232.37	--		
	6/15/2010	243.3		12.4		230.9	--		
	7/30/2010	243.3		13.92		229.38	--		
	9/2/2010	243.3		15.06		228.24	--		
	9/21/2010	243.3	14.63	14.64	0.01	228.67	AS	0.003	
	10/13/2010	243.3	13.39	13.4	0.01	229.91	AS	0.003	
	11/4/2010	243.3	12.99	13	0.01	230.31	AS	0.003	
	12/3/2010	243.3	13.04	13.05	0.01	230.26	AS	0.002	
	12/10/2010	243.3		12.53		230.77	--		
	1/28/2011	243.3		13.95		229.35	--		
	2/14/2011	243.3	12.82	12.83	0.01	230.48	--		
	3/4/2011	243.3		12.85		230.45	--		
	4/13/2011	243.3	10.93	10.94	0.01	232.37	AS	0.003	
	4/20/2011	243.3	9.1	9.11	0.01	234.2	--		
	4/29/2011	243.3		9.65		233.65	--		
	5/13/2011	243.3		11.15		232.15	--		
	5/26/2011	243.3		12.1		231.2	--		
	6/9/2011	243.3		11.72		231.58	--		
	6/15/2011	243.3		12.14		231.16	--		
	7/14/2011	243.3	12.95	12.96	0.01	230.35	--		
	8/8/2011	243.3	13.75	13.76	0.01	229.55	--		
	9/14/2011	243.3	12.08	12.1	0.02	231.22	AS	0.013	
	10/25/2011	243.3	10.98	10.99	0.01	232.32	AS	0.001	
	12/15/2011	243.3		9.77		233.53	--		
	1/6/2012	243.3		10.94		232.36	--		
	1/27/2012	243.3	10.77	10.78	0.01	232.53	--		
	2/7/2012	243.3		11.75		231.55	--		
	2/28/2012	243.3		12.52		230.78	--		
	3/21/2012	243.3		11.87		231.43	--		
	4/13/2012	243.3		12.69		230.61	--		
	4/27/2012	243.3		12.43		230.87	--		
	5/25/2012	243.3		11.05		232.25	--		
	6/7/2012	243.3		10.5		232.8	--		
	6/13/2012	243.3		10.89		232.41	--		
	7/18/2012	243.3		12.92		230.38	--		
	8/16/2012	243.3		13.05		230.25	--		
	9/24/2012	243.3		11.73		231.57	--		
	10/8/2012	243.3		11.62		231.68	--		
	11/19/2012	243.3		10.55		232.75	--		
	12/14/2012	243.3		12.21		231.09	--		
	1/7/2013	243.3		11.23		232.07	--		
	1/11/2013	243.3		11.29		232.01	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/1/2013	243.3		10.6		232.7	--		
	4/26/2013	243.3		12.24		231.06	--		
	5/20/2013	243.3		11.31		231.99	--		
	5/24/2013	243.3		10.39		232.91	--		
	6/28/2013	243.3		10.37		232.93	--		
	8/2/2013	243.3		12.24		231.06	--		
	9/4/2013	243.3		12.9		230.4	--		
	9/16/2013	243.3		13.33		229.97	--		
	10/30/2013	243.3		11.84		231.46	--		
	11/21/2013	243.3		13.04		230.26	--		
	12/19/2013	243.3		9.02		234.28	--		
	12/23/2013	243.3		6.93		236.37	--		
	1/15/2014	243.3		9.29		234.01	--		
	2/18/2014	243.3		10.29		233.01	--		
	3/10/2014	243.3		10.22		233.08	--		
	4/28/2014	243.3		10.83		232.47	--		
	6/5/2014	243.3		9.87		233.43	--		
	6/9/2014	243.3		10.54		232.76	--		
	6/25/2014	243.3		9.81		233.49	--		
	7/17/2014	243.3		8.41		234.89	--		
	8/7/2014	243.3		11.64		231.66	--		
	9/15/2014	243.3		12.12		231.18	--		
	9/25/2014	243.3		12.69		230.61	--		
	10/30/2014	243.3		12.46		230.84	--		
	11/25/2014	243.3		13.07		230.23	--		
	12/29/2014	243.3		10.4		232.9	--		
	1/16/2015	243.3		11.04		232.26	--		
	2/13/2015	243.3		11.91		231.39	--		
	3/24/2015	243.3		9.85		233.45	--		
	4/15/2015	243.3		11.64		231.66	--		
	5/15/2015	243.3		12		231.3	--		
	6/23/2015	243.3		8		235.3	--		
	7/30/2015	243.3		11.86		231.44	--		
	8/24/2015	243.3		12.49		230.81	--		
	9/21/2015	243.3		13.16		230.14	--		
	10/27/2015	243.3		12.2		231.1	--		
	11/23/2015	243.3		11		232.3	--		
	12/28/2015	243.3		9.5		233.8	--		
	2/5/2016	243.3		7.68		235.62	--		
	2/18/2016	243.3		7.56		235.74	--		
	3/23/2016	243.3		10.35		232.95	--		
	4/27/2016	243.3		11.85		231.45	--		
	5/25/2016	243.3		8.08		235.22	--		
	6/22/2016	243.3		3.53		239.77	--		
	7/28/2016	243.3		12.96		230.34	--		
	8/23/2016	243.3		7.94		235.36	--		
	9/26/2016	243.3		12.72		230.58	--		0.036
EW-3	7/16/2009	242.7	12.55	12.73	0.18	230.13	PP	0.238	
	7/22/2009	242.7	12.81	12.9	0.09	229.88	--		
	8/3/2009	242.7	12.13	12.38	0.25	230.54	PP	0.132	
	9/3/2009	242.7	12.8	13.3	0.5	229.84	PP	0.423	
	9/18/2009	242.7	13.35	13.6	0.25	229.32	PP	0.172	
	10/6/2009	242.7	13.6	13.95	0.35	229.05	PP	0.476	
	10/19/2009	242.7	12.91	13.06	0.15	229.77	AS	0.079	
	11/5/2009	242.7	12.32	12.33	0.01	230.38	AS	0.159	
	12/4/2009	242.7	12.03	12.23	0.2	230.64	AS	0.178	
	12/11/2009	242.7		10.95		231.75	--		
	12/16/2009	242.7		11.03		231.67	AS	0.053	
	1/20/2010	242.7		11.51		231.19	--		
	2/16/2010	242.7		11.17		231.53	--		
	3/8/2010	242.7	10.24	10.45	0.21	232.43	--		
	4/5/2010	242.7	10.4	10.65	0.25	232.27	PP	0.092	
	5/3/2010	242.7	11.11	11.5	0.39	231.54	PP	0.106	
	5/26/2010	242.7	10.69	11.13	0.44	231.95	PP	0.476	
	6/15/2010	242.7	12.31	12.73	0.42	230.34	--		
	6/18/2010	242.7	12.24	12.69	0.45	230.4	PP	0.317	
	7/30/2010	242.7	13.73	13.75	0.02	228.97	AS	0.013	
	9/2/2010	242.7	14.99	15.33	0.34	227.67	PP	0.159	
	9/21/2010	242.7	14.58	15.46	0.88	228.01	PP	0.317	
	10/13/2010	242.7	13.26	14.02	0.76	229.34	PP	0.951	
	11/4/2010	242.7	13.01	13.44	0.43	229.63	--		
	11/12/2010	242.7	13.01	13.48	0.48	229.64	PP	0.74	
	11/19/2010	242.7	12.86	13.31	0.45	229.78	PP	0.687	
	11/24/2010	242.7	12.93	13.57	0.64	229.69	PP	0.845	
	12/3/2010	242.7	12.14	12.27	0.13	230.54	--		
	12/10/2010	242.7	12.45	12.62	0.17	230.23	--		
	1/28/2011	242.7	13.82	14.3	0.48	228.82	PP	0.198	
	2/14/2011	242.7	12.75	13.2	0.45	229.89	--		
	3/4/2011	242.7	12.38	12.97	0.59	230.24	PP	0.819	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/13/2011	242.7	11.15	11.3	0.15	231.53	PP	0.185	
	4/20/2011	242.7	9.43	9.58	0.15	233.25	--		
	4/29/2011	242.7		10.35		232.35	AS	0.159	
	5/13/2011	242.7	11.35	11.36	0.01	231.35	AS	0.159	
	5/26/2011	242.7	12.99	13.04	0.05	229.7	--		
	6/9/2011	242.7	11.87	11.88	0.01	230.83	AS	0.079	
	6/15/2011	242.7		12.95		229.75	AS	0.053	
	7/14/2011	242.7	12.98	13.2	0.22	229.69	AS	0.053	
	7/21/2011	242.7	13	13.22	0.22	229.67	AS	0.396	
	8/8/2011	242.7	13.73	13.95	0.22	228.94	--		
	8/17/2011	242.7	14.71	14.73	0.02	227.99	AS	0.079	
	9/1/2011	242.7	14.09	14.35	0.26	228.58	AS	0.185	
	9/14/2011	242.7	12.5	12.59	0.09	230.19	AS	0.132	
	10/25/2011	242.7		11.6		231.1	AS	0.172	
	12/15/2011	242.7					--		
	12/21/2011	242.7		11.3		231.4	AS	0.053	
	1/27/2012	242.7					--		
	2/7/2012	242.7					--		
	2/28/2012	242.7					--		
	3/21/2012	242.7					--		
	4/13/2012	242.7	12.71	12.97	0.26	229.96	AS	0.026	
	4/27/2012	242.7	12.68	13.02	0.34	229.98	AS	0.026	
	5/25/2012	242.7	11.84	11.98	0.14	230.84	AS	0.211	
	6/13/2012	242.7	11.83	11.86	0.03	230.87	AS		
	7/18/2012	242.7	13.15	13.5	0.35	229.5	AS	0.132	
	8/16/2012	242.7	13.25	13.29	0.04	229.44	AS	0.119	
	9/24/2012	242.7	12.57	12.85	0.28	230.09	AS		
	10/8/2012	242.7	12.48	12.76	0.28	230.18	AS	0.172	
	11/19/2012	242.7	11.25	11.51	0.26	231.42	AS	0.251	
	12/14/2012	242.7	12.44	12.61	0.17	230.24	AS	0.277	
	1/7/2013	242.7	11.85	11.99	0.14	230.83	AS	0.291	
	1/11/2013	242.7	11.76	11.8	0.04	230.93	--		
	3/1/2013	242.7	11.19	11.26	0.07	231.5	AS	0.251	
	3/29/2013	242.7	11.58	11.6	0.02	231.12	AS	0.145	
	4/11/2013	242.7	11.96	12.08	0.12	230.72	AS	0.185	
	4/26/2013	242.7	12.51	12.66	0.15	230.17	AS	0.211	
	5/13/2013	242.7		11.49		231.21	AS	0.238	
	5/20/2013	242.7	11.93	11.95	0.02	230.77	--		
	5/24/2013	242.7	12.45	12.47	0.02	230.25	AS	0.172	
	6/10/2013	242.7	10.25	10.35	0.1	232.44	AS	0.145	
	8/2/2013	242.7	12.63	13.02	0.39	230.02	AS	0.106	
	9/4/2013	242.7	13.19	13.61	0.42	229.46	AS	0.185	
	9/16/2013	242.7	13.5	13.93	0.43	229.14	AS		
	10/30/2013	242.7	12.41	12.66	0	230.04	AS	0.119	
	11/21/2013	242.7	13.25	13.54	0	229.16	AS	0.119	
	12/19/2013	242.7	11.05	11.27	0	231.43	AS	0.132	
	12/23/2013	242.7	11.23	11.25	0	231.45	AS		
	1/15/2014	242.7	10.55	10.58	0.03	232.15	AS	0.198	
	2/18/2014	242.7	10.85	10.87	0.02	231.85	AS	0.139	
	3/10/2014	242.7		10.89		231.81	AS		
	3/11/2014	242.7		10.91		231.79	AS	0.071	
	4/28/2014	242.7	11.44	11.55		231.15	AS	0.159	
	6/5/2014	242.7	10.91	10.92	0.01	231.79	AS	0.132	
	6/9/2014	242.7		11.28		231.42	--		
	6/25/2014	242.7		10.45		232.25	AS	0.066	
	7/17/2014	242.7	10.59	10.6	0.01	232.11	AS	0.066	
	8/7/2014	242.7	12.3	12.43	0.13	230.38	AS	0.119	
	9/15/2014	242.7	12.6	12.92	0.32	230.06	--		
	9/25/2014	242.7	13.09	13.36	0.27	229.57	AS	0.092	
	10/2/2014	242.7	13.04	13.21	0.17	229.64	AS	0.079	
	10/30/2014	242.7	12.98	13.24	0.26	229.69	AS	0.152	
	11/25/2014	242.7					AS		
	12/23/2014	242.7					--		
	12/29/2014	242.7	11.85	12.09	0.24	230.82	--		
	1/16/2015	242.7	11.75	12.02	0.27	230.68	AS	0.2245	
	2/13/2015	242.7					--		
	3/24/2015	242.7					--		
	4/15/2015	242.7					--		
	5/15/2015	242.7					--		
	6/23/2015	242.7					--		
	7/30/2015	242.7					--		
	8/24/2015	242.7	12.24	12.82	0.58	229.88	--		
	9/21/2015	242.7	13.45	14.05	0.6	228.65	AS	0.079	
	10/27/2015	242.7	12.63	12.9	0.27	229.8	AS	0.2378	
	11/23/2015	242.7	12	12.15	0.15	230.55	AS	0.1321	
	12/28/2015	242.7	11.1	11.29	0.19	231.41	AS	0.1453	
	2/5/2016	242.7	9.5	9.62	0.12	233.08	AS	0.1255	
	2/18/2016	242.7	9.76	9.83	0.07	232.87	AS	0.0925	
	3/23/2016	242.7	11.01	11.02	0.01	231.68	AS	0.0925	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	4/27/2016	242.7	12.21	12.22	0.01	230.48	AS	0.0991	
	5/25/2016	242.7		10.31		232.39	AS	0.066	
	6/22/2016	242.7		10.99		231.71	AS	0.066	
	7/28/2016	242.7	12.33	12.36	0.03	230.34	AS	0.0264	
	8/23/2016	242.7		9.79		232.91	AS	0.0396	
	9/26/2016	242.7	12.85	12.87	0.02	229.83	AS	0.066	15.6133
EW-4	7/22/2009	243.2		12.49		230.71	--		
	9/18/2009	243.2		12.79		230.41	--		
	10/6/2009	243.2		12.62		230.58	--		
	10/19/2009	243.2		8.26		234.94	--		
	11/5/2009	243.2		9.83		233.37	--		
	12/4/2009	243.2		3.23		239.97	--		
	1/20/2010	243.2		9.05		234.15	--		
	2/16/2010	243.2		11.75		231.45	--		
	4/5/2010	243.2		8.52		234.68	--		
	5/3/2010	243.2		8.85		234.35	--		
	5/26/2010	243.2		8.8		234.4	--		
	6/15/2010	243.2					--		
	7/30/2010	243.2		13.33		229.87	--		
	9/2/2010	243.2		14.98		228.22	--		
	9/21/2010	243.2		14.21		228.99	--		
	10/13/2010	243.2		11.95		231.25	--		
	11/4/2010	243.2					--		
	12/10/2010	243.2		10.17		233.03	--		
	1/28/2011	243.2		13.52		229.68	--		
	2/14/2011	243.2		10.86		232.34	--		
	4/13/2011	243.2					--		
	5/26/2011	243.2		12.07		231.13	--		
	6/15/2011	243.2		11.2		232	--		
	7/14/2011	243.2					--		
	8/8/2011	243.2					--		
	9/14/2011	243.2		9.22		233.98	--		
	10/25/2011	243.2					--		
	12/15/2011	243.2					--		
	1/27/2012	243.2		10.07		233.13	--		
	2/28/2012	243.2		11.99		231.21	--		
	3/20/2012	243.2		11.15		232.05	--		
	4/13/2012	243.2		12.34		230.86	--		
	5/25/2012	243.2					--		
	6/13/2012	243.2		8.57		234.63	--		
	7/18/2012	243.2		11.95		231.25	--		
	8/16/2012	243.2		11.97		231.23	--		
	9/24/2012	243.2		10.07		233.13	--		
	12/14/2012	243.2		11.29		231.91	--		
	1/11/2013	243.2		10.32		232.88	--		
	4/26/2013	243.2		11.63		231.57	--		
	5/20/2013	243.2		10.2		233	--		
	9/4/2013	243.2		11.57		231.63	--		
	9/16/2013	243.2		13.02		230.18	--		
	10/30/2013	243.2		10.08		233.12	--		
	11/21/2013	243.2		12.82		230.38	--		
	12/19/2013	243.2		8.34		234.86	--		
	1/15/2014	243.2		8.23		234.97	--		
	2/18/2014	243.2		9.68		233.52	--		
	3/10/2014	243.2		9.64		233.56	--		
	4/28/2014	243.2		9.89		233.31	--		
	6/5/2014	243.2		8.76		234.44	--		
	6/9/2014	243.2		9.1		234.1	--		
	6/25/2014	243.2		8.76		234.44	--		
	7/17/2014	243.2		7.13		236.07	--		
	8/7/2014	243.2		10.23		232.97	--		
	9/15/2014	243.2		10.64		232.56	--		
	9/25/2014	243.2					--		
	10/30/2014	243.2		10.46		232.74	--		
	11/25/2014	243.2		11.88		231.32	--		
	12/29/2014	243.2		9.68		233.52	--		
	1/16/2015	243.2					--		
	2/13/2015	243.2		10.89		232.31	--		
	3/24/2015	243.2		9		234.2	--		
	4/15/2015	243.2		11.28		231.92	--		
	5/15/2015	243.2		11.63		231.57	--		
	6/23/2015	243.2		7.83		235.37	--		
	7/30/2015	243.2		10.43		232.77	--		
	8/24/2015	243.2		10.48		232.72	--		
	9/21/2015	243.2		12.14		231.06	--		
	10/27/2015	243.2		11.6		231.6	--		
	11/23/2015	243.2		9.91		233.29	--		
	12/28/2015	243.2		8.61		234.59	--		
	2/5/2016	243.2					--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	2/18/2016	243.2		9.36		233.84	--		
	3/23/2016	243.2		9.56		233.64	--		
	4/27/2016	243.2		11.57		231.63	--		
	5/25/2016	243.2		7.77		235.43	--		
	6/22/2016	243.2		7.5		235.7	--		
	7/28/2016	243.2		10.07		233.13	--		
	8/23/2016	243.2		8.55		234.65	--		
	9/26/2016	243.2		12.4		230.8	--		0
EW-5	7/16/2009	243.6	13.35	13.36	0.01	230.25	PP		
	7/22/2009	243.6		13.65		229.95	--		
	8/3/2009	243.6		12.91		230.69	--		
	9/3/2009	243.6	13.7	13.81	0.11	229.89	PP	0.106	
	9/18/2009	243.6	14.08	14.25	0.17	229.5	PP	0.291	
	10/6/2009	243.6	14.4	14.5	0.1	229.19	AS		
	10/19/2009	243.6	13.65	13.76	0.11	229.94	AS	0.04	
	11/5/2009	243.6		12.85		230.75	--		
	12/4/2009	243.6	12.8	12.82	0.02	230.8	AS	0.145	
	12/16/2009	243.6		11.75		231.85	AS	0.013	
	1/20/2010	243.6		12.08		231.52	--		
	3/8/2010	243.6	11.05	11.06	0.01	232.55	--		
	4/5/2010	243.6	11.22	11.24	0.02	232.38	AS	0.026	
	5/3/2010	243.6	11.43	12	0.07	231.66	PP	0.053	
	5/26/2010	243.6	11.48	11.54	0.06	232.11	AS	0.106	
	6/15/2010	243.6		13.14		230.46	--		
	7/30/2010	243.6	14.58	14.73	0.15	229	AS	0.106	
	9/2/2010	243.6	15.36	15.49	0.13	228.22	PP	0.079	
	9/21/2010	243.6	15.3	15.7	0.4	228.25	PP	0.264	
	10/13/2010	243.6	14.12	14.5	0.38	229.43	PP	0.277	
	11/4/2010	243.6	13.81	13.95	0.14	229.77	AS	0.03	
	11/12/2010	243.6	13.52	13.55	0.03	230.08	AS	0.007	
	11/19/2010	243.6	13.61	13.71	0.1	229.98	AS	0.04	
	11/24/2010	243.6	13.75	13.95	0.2	229.82	PP	0.185	
	12/10/2010	243.6	13.3	13.35	0.5	230.69	--		
	1/28/2011	243.6	14.66	14.75	0.09	228.93	AS	0.053	
	2/14/2011	243.6	13.56	13.66	0.1	230.03	--		
	3/4/2011	243.6	13.2	13.27	0.07	230.39	AS	0.026	
	4/13/2011	243.6	11.89	12.03	0.14	231.69	PP	0.106	
	4/29/2011	243.6	10.93	11.12	0.19	232.65	--		
	5/13/2011	243.6		12.2		231.4	AS	0.225	
	5/26/2011	243.6	12.7	12.72	0.02	230.9	--		
	6/9/2011	243.6	12.61	12.62	0.01	230.99	PS	0.092	
	6/15/2011	243.6		12.19		231.41	AS	0.003	
	7/14/2011	243.6		13.78		229.82	--		
	7/21/2011	243.6		13.9		229.7	AS	0	
	8/8/2011	243.6	14.47	15.53	1.06	228.99	--		
	8/17/2011	243.6	13.88	14.18	0.3	229.68	AS	0.106	
	9/14/2011	243.6		13.2		230.4	AS	0.106	
	10/25/2011	243.6					--		
	12/15/2011	243.6					--		
	12/21/2011	243.6	11.95	11.98	0.03	231.65	AS	0.159	
	1/6/2012	243.6		12.17		231.43	--		
	1/27/2012	243.6		12.21		231.39	--		
	2/7/2012	243.6		12.78		230.82	AS	0.066	
	2/28/2012	243.6		13.35		230.25	--		
	3/21/2012	243.6		12.88		230.72	--		
	4/13/2012	243.6		13.6		230	AS	0.066	
	4/27/2012	243.6		13.51		230.09	AS	0.013	
	5/25/2012	243.6		12.5		231.1	AS	0.003	
	6/13/2012	243.6	12.47	12.48	0.01	231.13	AS		
	7/18/2012	243.6		14.05		229.55	AS	0.079	
	8/16/2012	243.6		14		229.6	AS	0.053	
	9/24/2012	243.6	13.35	13.36	0.01	230.25	AS		
	10/8/2012	243.6	13.19	13.2	0.01	230.41	AS	0.159	
	11/19/2012	243.6	11.93	11.96	0.03	231.67	AS	0.145	
	12/14/2012	243.6		13.23		230.37	AS	0.079	
	1/7/2013	243.6		12.53		231.07	AS	0.053	
	1/11/2013	243.6		12.38		231.22	--		
	3/1/2013	243.6	11.89	11.9	0.01	231.71	AS	0.092	
	3/29/2013	243.6		12.23		231.37	AS		
	4/11/2013	243.6		12.63		230.97	--		
	4/26/2013	243.6		13.21		230.39	AS		
	5/13/2013	243.6		12.15		231.45	AS	0	
	5/20/2013	243.6		12.37		231.23	--		
	5/24/2013	243.6		12.14		231.46	AS	0.007	
	6/10/2013	243.6		11.61		231.99	AS	0.04	
	8/2/2013	243.6		13.45		230.15	AS	0	
	9/4/2013	243.6		13.91		229.69	AS	0.132	
	9/16/2013	243.6		14.42		229.18	AS		
	10/30/2013	243.6	13.1	13.12	0	230.48	AS	0.106	

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	11/21/2013	243.6	13.95	13.96	0	229.64	AS	0.106	
	12/19/2013	243.6		11.72		231.88	AS	0.106	
	12/23/2013	243.6		11.86		231.74	--		
	1/15/2014	243.6		11.12		232.48	AS	0.053	
	2/18/2014	243.6	11.49	11.5	0.01	232.11	AS	0.079	
	3/10/2014	243.6		11.58		232.02	--		
	3/11/2014	243.6		11.41		232.19	AS	0.079	
	4/28/2014	243.6		12.14		231.46	AS	0.106	
	6/5/2014	243.6	12.71	12.72	0.01	230.89	AS	0.026	
	6/9/2014	243.6		12.02		231.58	--		
	6/25/2014	243.6		11.43		232.17	AS	0.04	
	7/17/2014	243.6		11.28		232.32	--		
	8/7/2014	243.6		12.93		230.67	AS	0.026	
	9/15/2014	243.6		13.42		230.18	--		
	9/25/2014	243.6		13.9		229.7	--		
	10/30/2014	243.6		13.65		229.95	--		
	11/25/2014	243.6		14.22		229.38	--		
	12/23/2014	243.6	12.86	12.87	0.01	230.74	AS	0.092	
	12/29/2014	243.6		12.44		231.16	--		
	1/16/2015	243.6		12.35		231.25	AS	0.0132	
	2/13/2015	243.6		12.92		230.68	AS	0.0396	
	3/24/2015	243.6	11.64	11.65	0.01	231.95	AS	0.0528	
	4/15/2015	243.6		12.58		231.02	--		
	5/15/2015	243.6		12.91		230.69	AS	0.0793	
	6/23/2015	243.6		11.5		232.1	AS	0.0198	
	7/30/2015	243.6		12.94		230.66	AS	0.106	
	8/24/2015	243.6		13.17		230.43	--		
	9/21/2015	243.6	15.34	15.36	0.02	228.24	AS	0.066	
	10/27/2015	243.6	13.3	13.32	0.02	230.28	AS	0.0925	
	11/23/2015	243.6		12.73		230.87	AS	0.0026	
	12/28/2015	243.6		11.75		231.85	--		
	2/5/2016	243.6		10.08	0	233.52	AS	0.033	
	2/18/2016	243.6		10.58	0	233.02	AS	0	
	3/23/2016	243.6		11.48	0	232.12	AS	0.0026	
	4/27/2016	243.6		12.96		230.64	AS		
	5/25/2016	243.6		10.99		232.61	AS		
	6/22/2016	243.6		11.79		231.81	--		
	7/28/2016	243.6		13.12		230.48	AS		
	8/23/2016	243.6		11.57		232.03	AS	0.0264	
	9/26/2016	243.6		13.94		229.66	AS	0.0264	5.0102
EW-6	7/22/2009	242.4		13.33		229.07	--		
	9/18/2009	242.4		13.86		228.54	--		
	10/6/2009	242.4		14.13		228.27	--		
	10/19/2009	242.4		13.4		229	--		
	11/5/2009	242.4		12.51		229.89	--		
	12/4/2009	242.4		12.42		229.98	--		
	1/20/2010	242.4		11.73		230.67	--		
	4/5/2010	242.4		10.86		231.54	--		
	5/3/2010	242.4		11.6		230.8	--		
	5/26/2010	242.4		11.15		231.25	--		
	6/15/2010	242.4		12.78		229.62	--		
	7/30/2010	242.4		14.3		228.1	--		
	9/2/2010	242.4		15.01		227.39	--		
	9/21/2010	242.4		5.1		237.3	--		
	10/13/2010	242.4		13.8		228.6	--		
	11/4/2010	242.4		14.49		227.91	--		
	12/10/2010	242.4		12.97		229.43	--		
	1/28/2011	242.4		14.35		228.05	--		
	2/14/2011	242.4		13.26		229.14	--		
	4/13/2011	242.4		11.37		231.03	--		
	5/26/2011	242.4		13.24		229.16	--		
	6/15/2011	242.4		12.6		229.8	--		
	7/14/2011	242.4		13.43		228.97	--		
	8/8/2011	242.4		14.2		228.2	--		
	9/14/2011	242.4		12.74		229.66	--		
	10/25/2011	242.4		11.82		230.58	--		
	12/15/2011	242.4		11.35		231.05	--		
	1/27/2012	242.4		11.68		230.72	--		
	2/28/2012	242.4		13.02		229.38	--		
	3/21/2012	242.4		12.43		229.97	--		
	4/13/2012	242.4		13.22		229.18	--		
	5/25/2012	242.4		12.12		230.28	--		
	6/13/2012	242.4		12.09		230.31	--		
	7/18/2012	242.4		13.54		228.86	--		
	8/16/2012	242.4		13.72		228.68	--		
	9/24/2012	242.4		12.93		229.47	--		
	11/19/2012	242.4		11.57		230.83	--		
	12/14/2012	242.4		12.83		229.57	--		
	1/11/2013	242.4		12.03		230.37	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP,PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	3/1/2013	242.4		11.59		230.81	--		
	4/26/2013	242.4		12.81		229.59	--		
	5/20/2013	242.4		12.24		230.16	--		
	6/28/2013	242.4		11.61		230.79	--		
	8/2/2013	242.4		12.98		229.42	--		
	9/4/2013	242.4		13.61		228.79	--		
	9/16/2013	242.4		13.97		228.43	--		
	10/30/2013	242.4		12.72		229.68	--		
	11/21/2013	242.4		13.61		228.79	--		
	12/19/2013	242.4		11.47		230.93	--		
	12/23/2013	242.4		11.46		230.94	--		
	1/15/2014	242.4		10.87		231.53	--		
	2/18/2014	242.4		11.16		231.24	--		
	3/10/2014	242.4		11.13		231.27	--		
	4/28/2014	242.4		11.78		230.62	--		
	6/5/2014	242.4		11.3		231.1	--		
	6/9/2014	242.4		11.68		230.72	--		
	6/25/2014	242.4		11.01		231.39	--		
	7/17/2014	242.4		10.99		231.41	--		
	8/7/2014	242.4		12.61		229.79	--		
	9/15/2014	242.4		13.14		229.26	--		
	9/25/2014	242.4		13.47		228.93	--		
	10/30/2014	242.4		13.36		229.04	--		
	11/25/2014	242.4		13.84		228.56	--		
	12/29/2014	242.4		12.1		230.3	--		
	1/16/2015	242.4		12.04		230.36	--		
	2/13/2015	242.4		12.52		229.88	--		
	3/24/2015	242.4		11.27		231.13	--		
	4/15/2015	242.4		12.26		230.14	--		
	5/15/2015	242.4		13.42		228.98	--		
	6/23/2015	242.4		10.84		231.56	--		
	7/30/2015	242.4		12.66		229.74	--		
	8/24/2015	242.4		13.42		228.98	--		
	9/21/2015	242.4		13.97		228.43	--		
	10/27/2015	242.4		12.97		229.43	--		
	11/23/2015	242.4		12.41		229.99	--		
	12/28/2015	242.4		11.4		231	--		
	2/5/2016	242.4					--		
	2/18/2016	242.4		10.12		232.28	--		
	3/23/2016	242.4		11.33		231.07	--		
	4/27/2016	242.4		12.56		229.84	--		
	5/25/2016	242.4		10.69		231.71	--		
	6/22/2016	242.4		11.43		230.97	--		
	7/28/2016	242.4		12.7		229.7	--		
	8/23/2016	242.4		11.2		231.2	--		
	9/26/2016	242.4		13.25		229.15	--		0
EW-7	7/22/2009	243.2		13.22		229.98	--		
	9/18/2009	243.2		13.75		229.45	--		
	10/6/2009	243.2		14.05		229.15	--		
	10/19/2009	243.2		13.3		229.9	--		
	11/5/2009	243.2		12.51		230.69	--		
	12/4/2009	243.2		12.34		230.86	--		
	1/20/2010	243.2		11.72		231.48	--		
	4/5/2010	243.2		10.87		232.33	--		
	5/3/2010	243.2		11.57		231.63	--		
	5/26/2010	243.2		11.15		232.05	--		
	6/15/2010	243.2		12.71		230.49	--		
	7/30/2010	243.2		14.2		229	--		
	9/2/2010	243.2		14.96		228.24	--		
	9/21/2010	243.2		15		228.2	--		
	10/13/2010	243.2		13.74		229.46	--		
	11/4/2010	243.2		13.49		229.71	--		
	12/10/2010	243.2		13.01		230.19	--		
	2/14/2011	243.2		13.29		229.91	--		
	4/13/2011	243.2		11.55		231.65	--		
	5/26/2011	243.2		13.17		230.03	--		
	6/15/2011	243.2		12.51		230.69	--		
	7/14/2011	243.2		13.34		229.86	--		
	8/8/2011	243.2		14.13		229.07	--		
	9/14/2011	243.2		12.78		230.42	--		
	10/25/2011	243.2					--		
	12/15/2011	243.2					--		
	1/27/2012	243.2					--		
	2/28/2012	243.2					--		
	3/20/2012	243.2		12.24		230.96	--		
	4/13/2012	243.2		13.13		230.07	--		
	5/25/2012	243.2		12.08		231.12	--		
	6/13/2012	243.2		11.98		231.22	--		
	7/18/2012	243.2		13.46		229.74	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	8/16/2012	243.2		13.65		229.55	--		
	9/24/2012	243.2		12.86		230.34	--		
	12/14/2012	243.2		12.78		230.42	--		
	1/11/2013	243.2		12.14		231.06	--		
	3/1/2013	243.2		11.52		231.68	--		
	4/26/2013	243.2		12.78		230.42	--		
	5/20/2013	243.2		12.21		230.99	--		
	6/28/2013	243.2		11.5		231.7	--		
	8/2/2013	243.2		12.9		230.3	--		
	9/4/2013	243.2		13.51		229.69	--		
	9/16/2013	243.2		13.87		229.33	--		
	10/30/2013	243.2		12.72		230.48	--		
	11/21/2013	243.2		15.61		227.59	--		
	12/19/2013	243.2		11.47		231.73	--		
	12/23/2013	243.2		11.49		231.71	--		
	1/15/2014	243.2		10.89		232.31	--		
	2/18/2014	243.2		11.17		232.03	--		
	3/10/2014	243.2		11.2		232	--		
	4/28/2014	243.2		11.74		231.46	--		
	6/5/2014	243.2		11.19		232.01	--		
	6/9/2014	243.2		11.62		231.58	--		
	6/25/2014	243.2		10.97		232.23	--		
	7/17/2014	243.2		10.85		232.35	--		
	8/7/2014	243.2		12.52		230.68	--		
	9/15/2014	243.2		13.12		230.08	--		
	9/25/2014	243.2		13.46		229.74	--		
	10/30/2014	243.2		13.33		229.87	--		
	11/25/2014	243.2		13.83		229.37	--		
	12/29/2014	243.2		12.13		231.07	--		
	1/16/2015	243.2		12.02		231.18	--		
	2/13/2015	243.2		13.82		229.38	--		
	3/24/2015	243.2		11.23		231.97	--		
	4/15/2015	243.2		12.13		231.07	--		
	5/15/2015	243.2		12.48		230.72	--		
	6/23/2015	243.2		10.89		232.31	--		
	7/30/2015	243.2		12.61		230.59	--		
	8/24/2015	243.2		12.8		230.4	--		
	9/21/2015	243.2		13.92		229.28	--		
	10/27/2015	243.2		12.98		230.22	--		
	11/23/2015	243.2		12.36		230.84	--		
	12/28/2015	243.2		11.42		231.78	--		
	2/5/2016	243.2					--		
	2/18/2016	243.2		9.49		233.71	--		
	3/23/2016	243.2		11.33		231.87	--		
	4/27/2016	243.2		12.45		230.75	--		
	5/25/2016	243.2		10.64		232.56	--		
	6/22/2016	243.2		10.41		232.79	--		
	7/28/2016	243.2		12.66		230.54	--		
	8/23/2016	243.2		11.14		232.06	--		
	9/26/2016	243.2		13.16		230.04	--		0
NPS MW-01	6/15/2010	234.94		5.2		229.74	--		
	9/21/2010	234.94		10.43		224.51	--		
	12/10/2010	234.94		8.4		226.54	--		
	2/14/2011	234.94		8.23		226.71	--		
	5/26/2011	234.94		5.32		229.62	--		
	8/8/2011	234.94		8.15		226.79	--		
	12/15/2011	234.94		5.5		229.44	--		
	3/20/2012	234.94		5.58		229.36	--		
	6/13/2012	234.94		6.64		228.3	--		
	9/24/2012	234.94		6.93		228.01	--		
	1/11/2013	234.94		6.63		228.31	--		
	5/20/2013	234.94		6.06		228.88	--		
	9/16/2013	234.94		8.77		226.17	--		
	12/23/2013	234.94		6.44		228.5	--		
	3/10/2014	234.94		5.26		229.68	--		
	6/9/2014	234.94		2.83		232.11	--		
	9/15/2014	234.94		6.05		228.89	--		
	12/29/2014	234.94		7.63		227.31	--		
	3/24/2015	234.94		4.86		230.08	--		
	6/23/2015	234.94		5.06		229.88	--		
	9/22/2015	234.94		8.93		226.01	--		
	12/28/2015	234.94		5.71		229.23	--		
	3/23/2016	234.94		4.45		230.49	--		
	6/22/2016	234.94					--		
	9/26/2016	234.94		7.21		227.73	--		0
NPS MW-02	6/15/2010	237.19		5.78		231.41	--		
	9/21/2010	237.19		8.36		228.83	--		
	12/10/2010	237.19		6.32		230.87	--		
	2/14/2011	237.19		6.69		230.5	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	5/26/2011	237.19		4.35		232.84	--		
	8/8/2011	237.19		7.27		229.92	--		
	12/15/2011	237.19		4.31		232.88	--		
	3/21/2012	237.19		5.62		231.57	--		
	6/13/2012	237.19		5.28		231.91	--		
	9/24/2012	237.19		6.25		230.94	--		
	1/11/2013	237.19		5.04		232.15	--		
	5/20/2013	237.19		5.65		231.54	--		
	9/16/2013	237.19		7.05		230.14	--		
	12/23/2013	237.19		5.06		232.13	--		
	3/10/2014	237.19		4.68		232.51	--		
	6/9/2014	237.19		5.03		232.16	--		
	9/15/2014	237.19		6.44		230.75	--		
	12/29/2014	237.19		5.69		231.5	--		
	3/24/2015	237.19		4.83		232.36	--		
	6/23/2015	237.19		4.64		232.55	--		
	9/21/2015	237.19		7.18		230.01	--		
	12/28/2015	237.19		5.25		231.94	--		
	3/23/2016	237.19		4.843		232.347	--		
	6/22/2016	237.19		4.76		232.43	--		
	9/26/2016	237.19		6.46		230.73	--		0
NPS MW-03	6/15/2010	234.5		6.25		228.25	--		
	9/21/2010	234.5		14.94		219.56	--		
	12/10/2010	234.5		9.61		224.89	--		
	2/14/2011	234.5		8.86		225.64	--		
	5/26/2011	234.5		4.5		230	--		
	8/8/2011	234.5		13.17		221.33	--		
	12/15/2011	234.5		4.56		229.94	--		
	3/20/2012	234.5		4.69		229.81	--		
	6/13/2012	234.5		4.63		229.87	--		
	9/24/2012	234.5		7.49		227.01	--		
	1/11/2013	234.5		5.92		228.58	--		
	5/20/2013	234.5		5.57		228.93	--		
	9/16/2013	234.5		12.48		222.02	--		
	12/23/2013	234.5		4.95		229.55	--		
	3/10/2014	234.5		4.91		229.59	--		
	6/9/2014	234.5		4.93		229.57	--		
	9/15/2014	234.5		8.09		226.41	--		
	12/29/2014	234.5		5.91		228.59	--		
	3/24/2015	234.5		5.02		229.48	--		
	6/23/2015	234.5		4.75		229.75	--		
	9/21/2015	234.5		12.26		222.24	--		
	12/28/2015	234.5		5.12		229.38	--		
	3/23/2016	234.5		4.93		229.57	--		
	6/22/2016	234.5		5.43		229.07	--		
	9/26/2016	234.5		7.13		227.37	--		0
NPS MW-04	9/18/2009	238.5		8.55		229.95	--		
	10/6/2009	238.5		8.8		229.7	--		
	10/19/2009	238.5		8.08		230.42	--		
	11/5/2009	238.5		7.25		231.25	--		
	12/4/2009	238.5		7.07		231.43	--		
	1/20/2010	238.5		6.49		232.01	--		
	4/5/2010	238.5		5.8		232.7	--		
	5/3/2010	238.5		6.34		232.16	--		
	5/26/2010	238.5		5.98		232.52	--		
	6/15/2010	238.5		7.62		230.88	--		
	7/30/2010	238.5		10.43		228.07	--		
	9/2/2010	238.5		9.51		228.99	--		
	9/21/2010	238.5		9.74		228.76	--		
	10/13/2010	238.5		9.39		229.11	--		
	11/4/2010	238.5		8.13		230.37	--		
	12/10/2010	238.5		7.7		230.8	--		
	1/28/2011	238.5		8.89		229.61	--		
	2/14/2011	238.5		7.81		230.69	--		
	4/13/2011	238.5		6.24		232.26	--		
	5/26/2011	238.5		5.76		232.74	--		
	6/15/2011	238.5		7.35		231.15	--		
	7/14/2011	238.5		8.22		230.28	--		
	8/8/2011	238.5		8.92		229.58	--		
	9/14/2011	238.5		7.56		230.94	--		
	10/25/2011	238.5		6.45		232.05	--		
	12/15/2011	238.5		5.54		232.96	--		
	1/27/2012	238.5		6.36		232.14	--		
	2/28/2012	238.5		7.59		230.91	--		
	3/21/2012	238.5		6.95		231.55	--		
	4/13/2012	238.5		7.77		230.73	--		
	5/25/2012	238.5		6.72		231.78	--		
	6/13/2012	238.5		6.68		231.82	--		
	7/18/2012	238.5		8.25		230.25	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/24/2012	238.5		7.54		230.96	--		
	12/14/2012	238.5		7.42		231.08	--		
	1/11/2013	238.5		6.67		231.83	--		
	4/26/2013	238.5		7.37		231.13	--		
	5/20/2013	238.5		6.88		231.62	--		
	6/28/2013	238.5		6.36		232.14	--		
	8/2/2013	238.5		7.69		230.81	--		
	9/16/2013	238.5		8.6		229.9	--		
	10/30/2013	238.5		7.39		231.11	--		
	11/21/2013	238.5		8.18		230.32	--		
	12/19/2013	238.5		5.99		232.51	--		
	12/23/2013	238.5		6.02		232.48	--		
	1/15/2014	238.5		5.58		232.92	--		
	3/10/2014	238.5		5.86		232.64	--		
	4/28/2014	238.5		6.38		232.12	--		
	6/5/2014	238.5		6.03		232.47	--		
	6/9/2014	238.5		6.34		232.16	--		
	6/25/2014	238.5		5.87		232.63	--		
	7/17/2014	238.5		5.65		232.85	--		
	8/7/2014	238.5		7.31		231.19	--		
	9/15/2014	238.5		7.83		230.67	--		
	9/25/2014	238.5		8.1		230.4	--		
	10/30/2014	238.5		7.93		230.57	--		
	11/25/2014	238.5		7.18		231.32	--		
	12/29/2014	238.5		6.58		231.92	--		
	1/16/2015	238.5		6.59		231.91	--		
	2/13/2015	238.5		6.98		231.52	--		
	3/24/2015	238.5		5.81		232.69	--		
	4/15/2015	238.5		6.77		231.73	--		
	5/15/2015	238.5		7.06		231.44	--		
	6/23/2015	238.5		5.54		232.96	--		
	7/30/2015	238.5		7.25		231.25	--		
	8/24/2015	238.5		7.42		231.08	--		
	9/21/2015	238.5		8.57		229.93	--		
	10/27/2015	238.5		7.53		230.97	--		
	11/23/2015	238.5		6.85		231.65	--		
	12/28/2015	238.5		5.92		232.58	--		
	2/5/2016	238.5					--		
	2/18/2016	238.5		3.72		234.78	--		
	3/23/2016	238.5		6		232.5	--		
	4/27/2016	238.5		7.09		231.41	--		
	5/25/2016	238.5		5.53		232.97	--		
	6/22/2016	238.5		5.98		232.52	--		
	7/28/2016	238.5		7.36		231.14	--		
	8/23/2016	238.5		5.76		232.74	--		
	9/26/2016	238.5		7.87		230.63	--		0
NPS MW-05	6/15/2010	235.69		8.99		226.7	--		
	9/21/2010	235.69		10.83		224.86	--		
	12/10/2010	235.69		9.18		226.51	--		
	2/14/2011	235.69		10		225.69	--		
	5/26/2011	235.69		6.2		229.49	--		
	8/8/2011	235.69		10.28		225.41	--		
	12/15/2011	235.69		6.83		228.86	--		
	3/20/2012	235.69		7.63		228.06	--		
	6/13/2012	235.69		7.94		227.75	--		
	9/24/2012	235.69		9.68		226.01	--		
	1/11/2013	235.69		7.92		227.77	--		
	5/20/2013	235.69		7.99		227.7	--		
	9/16/2013	235.69		10.03		225.66	--		
	12/23/2013	235.69		8.51		227.18	--		
	3/10/2014	235.69		7.55		228.14	--		
	6/9/2014	235.69		7.53		228.16	--		
	9/15/2014	235.69		10.02		225.67	--		
	12/29/2014	235.69		9.32		226.37	--		
	3/24/2015	235.69		7.29		228.4	--		
	6/23/2015	235.69		8.06		227.63	--		
	9/21/2015	235.69		10.69		225	--		
	12/28/2015	235.69		7.7		227.99	--		
	3/23/2016	235.69		7.28		228.41	--		
	6/22/2016	235.69		8.5		227.19	--		
	9/26/2016	235.69		10.1		225.59	--		0
NPS MW-10	9/21/2010	237.73		9.07		228.66	--		
	12/10/2010	237.73		7.11		230.62	--		
	2/14/2011	237.73		7.35		230.38	--		
	5/27/2011	237.73		5.49		232.24	--		
	8/8/2011	237.73		8.19		229.54	--		
	12/15/2011	237.73		5.49		232.24	--		
	3/21/2012	237.73		6.43		231.3	--		
	6/13/2012	237.73		6.17		231.56	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	9/24/2012	237.73		7		230.73	--		
	1/11/2013	237.73		6.4		231.33	--		
	5/20/2013	237.73		6.53		231.2	--		
	9/16/2013	237.73		7.97		229.76	--		
	12/23/2013	237.73		8.82		228.91	--		
	3/10/2014	237.73		5.62		232.11	--		
	6/9/2014	237.73		5.99		231.74	--		
	9/15/2014	237.73		7.39		230.34	--		
	12/29/2014	237.73		6.31		231.42	--		
	3/24/2015	237.73		8.77		228.96	--		
	6/23/2015	237.73		5.57		232.16	--		
	9/21/2015	237.73		8.06		229.67	--		
	6/15/2010	237.73		6.72		231.01	--		
	12/28/2015	237.73		5.85		231.88	--		
	3/23/2016	237.73		5.72		232.01	--		
	6/22/2016	237.73		5.81		231.92	--		
	9/26/2016	237.73		7.4		230.33	--		0
NPS MW-11	6/15/2010	234.4		0.6		233.8	--		
	9/21/2010	234.4		5.75		228.65	--		
	12/10/2010	234.4		3.72		230.68	--		
	2/14/2011	234.4		4.04		230.36	--		
	5/27/2011	234.4		1.77		232.63	--		
	8/8/2011	234.4					--		
	12/15/2011	234.4					--		
	3/21/2012	234.4					--		
	6/13/2012	234.4					--		
	9/24/2012	234.4					--		0
NPS MW-12	6/15/2010	242.61		11.23		231.38	--		
	9/21/2010	242.61		13.77		228.84	--		
	12/10/2010	242.61		11.65		230.96	--		
	2/14/2011	242.61		12.1		230.51	--		
	5/27/2011	242.61		9.71		232.9	--		
	8/8/2011	242.61		12.63		229.98	--		
	12/15/2011	242.61		9.67		232.94	--		
	3/21/2012	242.61		10.97		231.64	--		
	6/13/2012	242.61		10.63		231.98	--		
	9/24/2012	242.61		11.59		231.02	--		
	1/11/2013	242.61		10.89		231.72	--		
	5/20/2013	242.61		11.02		231.59	--		
	9/16/2013	242.61		12.37		230.24	--		
	12/23/2013	242.61		10.38		232.23	--		
	3/10/2014	242.61		10.07		232.54	--		
	6/9/2014	242.61		10.4		232.21	--		
	9/15/2014	242.61		11.8		230.81	--		
	12/29/2014	242.61		11.07		231.54	--		
	3/24/2015	242.61		10.26		232.35	--		
	6/23/2015	242.61		10.48		232.13	--		
	9/21/2015	242.61		12.54		230.07	--		
	12/28/2015	242.61		10.61		232	--		
	3/23/2016	242.61		10.21		232.4	--		
	6/22/2016	242.61		10.22		232.39	--		
	9/26/2016	242.61		11.8		230.81	--		0
NPS MW-13	6/15/2010	234.72		12.35		222.37	--		
	9/21/2010	234.72		15.13		219.59	--		
	12/10/2010	234.72		13.7		221.02	--		
	2/14/2011	234.72		13.3		221.42	--		
	5/26/2011	234.72		9.51		225.21	--		
	8/8/2011	234.72		14.49		220.23	--		
	12/15/2011	234.72		9.55		225.17	--		
	3/20/2012	234.72		10.35		224.37	--		
	6/13/2012	234.72		12.15		222.57	--		
	9/24/2012	234.72		13.5		221.22	--		
	1/11/2013	234.72		11.85		222.87	--		
	5/20/2013	234.72		10.28		224.44	--		
	9/16/2013	234.72		13.98		220.74	--		
	12/23/2013	234.72		10.97		223.75	--		
	3/10/2014	234.72		10.43		224.29	--		
	6/9/2014	234.72		11.22		223.5	--		
	9/15/2014	234.72		13.59		221.13	--		
	12/29/2014	234.72		12.45		222.27	--		
	3/24/2015	234.72		9.87		224.85	--		
	6/23/2015	234.72		11.79		222.93	--		
	9/21/2015	234.72		14.54		220.18	--		
	12/28/2015	234.72		11.63		223.09	--		
	3/23/2016	234.72		10.73		223.99	--		
	6/22/2016	234.72		11.75		222.97	--		
	9/26/2016	234.72		13.31		221.41	--		0
NPS MW-14	6/15/2010	234.74		9.3		225.44	--		
	9/21/2010	234.74		12.32		222.42	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	12/10/2010	234.74		10.34		224.4	--		
	2/14/2011	234.74		10.4		224.34	--		
	5/26/2011	234.74		6.44		228.3	--		
	8/8/2011	234.74		11.35		223.39	--		
	12/15/2011	234.74		7.01		227.73	--		
	3/20/2012	234.74		7.78		226.96	--		
	6/13/2012	234.74		8.61		226.13	--		
	9/24/2012	234.74		10.24		224.5	--		
	1/11/2013	234.74		8.82		225.92	--		
	5/20/2013	234.74		7.9		226.84	--		
	9/16/2013	234.74		10.97		223.77	--		
	12/23/2013	234.74		8.37		226.37	--		
	3/10/2014	234.74		7.72		227.02	--		
	6/9/2014	234.74		7.71		227.03	--		
	9/15/2014	234.74		10.42		224.32	--		
	12/29/2014	234.74		6.05		228.69	--		
	3/24/2015	234.74		7.19		227.55	--		
	6/23/2015	234.74		8.01		226.73	--		
	9/21/2015	234.74		11.49		223.25	--		
	12/28/2015	234.74		8.13		226.61	--		
	3/23/2016	234.74		7.08		227.66	--		
	6/22/2016	234.74		5.25		229.49	--		
	9/26/2016	234.74		9.61		225.13	--		0
NPS MW-15	6/15/2010	234.38		7.53		226.85	--		
	9/21/2010	234.38		13.02		221.36	--		
	12/10/2010	234.38		8.78		225.6	--		
	2/14/2011	234.38		8.96		225.42	--		
	5/26/2011	234.38		6.14		228.24	--		
	8/8/2011	234.38		11.79		222.59	--		
	12/15/2011	234.38		6.11		228.27	--		
	3/20/2012	234.38		6.16		228.22	--		
	6/13/2012	234.38		5.43		228.95	--		
	9/24/2012	234.38		7.51		226.87	--		
	1/11/2013	234.38		7.14		227.24	--		
	5/20/2013	234.38		7.76		226.62	--		
	9/16/2013	234.38		11.07		223.31	--		
	12/23/2013	234.38		6.46		227.92	--		
	3/10/2014	234.38		5.93		228.45	--		
	6/9/2014	234.38		5.69		228.69	--		
	9/15/2014	234.38		7.45		226.93	--		
	12/29/2014	234.38		6.68		227.7	--		
	3/24/2015	234.38		5.71		228.67	--		
	6/23/2015	234.38		5.09		229.29	--		
	9/22/2015	234.38		10.11		224.27	--		
	12/28/2015	234.38		6.23		228.15	--		
	3/23/2016	234.38		5.35		229.03	--		
	6/22/2016	234.38					--		
	9/26/2016	234.38		7.75		226.63	--		0
NPS MW-16	6/15/2010	240.09		9.43		230.66	--		
	9/21/2010	240.09		11.72		228.37	--		
	12/10/2010	240.09		9.6		230.49	--		
	2/14/2011	240.09		9.79		230.3	--		
	5/27/2011	240.09		7.76		232.33	--		
	8/8/2011	240.09		10.83		229.26	--		
	12/15/2011	240.09		8.54		231.55	--		
	3/21/2012	240.09		9.78		230.31	--		
	6/13/2012	240.09		9.55		230.54	--		
	9/24/2012	240.09		10.48		229.61	--		
	1/11/2013	240.09		9.62		230.47	--		
	5/20/2013	240.09		9.78		230.31	--		
	9/16/2013	240.09		11.32		228.77	--		
	12/23/2013	240.09		8.74		231.35	--		
	3/10/2014	240.09		8.63		231.46	--		
	6/9/2014	240.09		9.09		231	--		
	9/15/2014	240.09		10.58		229.51	--		
	12/29/2014	240.09		9.39		230.7	--		
	3/24/2015	240.09		5.98		234.11	--		
	6/23/2015	240.09		8.48		231.61	--		
	9/21/2015	240.09		11.37		228.72	--		
	12/28/2015	240.09		8.8		231.29	--		
	3/23/2016	240.09		5.79		234.3	--		
	6/22/2016	240.09		5.77		234.32	--		
	9/26/2016	240.09		10.63		229.46	--		0
NPS MW-17	6/15/2010	242.71		15.6		227.11	--		
	9/21/2010	242.71		18.65		224.06	--		
	12/10/2010	242.71		16.37		226.34	--		
	2/14/2011	242.71		16.51		226.2	--		
	5/27/2011	242.71		13.14		229.57	--		
	8/8/2011	242.71		17.22		225.49	--		

Table 2
 Fluid Level Gauging Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well ID	Measurement Date	Top of Casing Elevation (ft msl)	DTLPH (ft TOC)	DTW (ft TOC)	LPH Thickness (feet)	Groundwater Elevation (ft msl)	LPH Recovery Method (SP, PS, PP, or AS)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
	12/15/2011	242.71		13.62		229.09	--		
	3/21/2012	242.71		14.65		228.06	--		
	6/13/2012	242.71		15.16		227.55	--		
	9/24/2012	242.71		16.45		226.26	--		
	1/11/2013	242.71		15.1		227.61	--		
	5/20/2013	242.71		14.6		228.11	--		
	9/16/2013	242.71		17.1		225.61	--		
	12/23/2013	242.71		14.72		227.99	--		
	3/10/2014	242.71		13.83		228.88	--		
	6/9/2014	242.71		14.41		228.3	--		
	9/15/2014	242.71		16.62		226.09	--		
	12/29/2014	242.71		15.6		227.11	--		
	3/24/2015	242.71		14.06		228.65	--		
	6/23/2015	242.71		14.85		227.86	--		
	9/21/2015	242.71		17.58		225.13	--		
	12/28/2015	242.71		14.97		227.74	--		
	3/23/2016	242.71		14.14		228.57	--		
	6/22/2016	242.71		14.95		227.76	--		
	9/26/2016	242.71		17.34		225.37	--		0
NPS MW-18	8/2/2013	234.15		3.04		231.11	--		
	9/4/2013	234.15		3.72		230.43	--		
	9/16/2013	234.15		3.79		230.36	--		
	10/30/2013	234.15		4.44		229.71	--		
	11/21/2013	234.15		3.88		230.27	--		
	12/19/2013	234.15		3.75		230.4	--		
	12/23/2013	234.15		3.4		230.75	--		
	1/15/2014	234.15		2.99		231.16	--		
	3/10/2014	234.15		1.68		232.47	--		
	4/28/2014	234.15		3.96		230.19	--		
	6/5/2014	234.15		3.7		230.45	--		
	6/9/2014	234.15		2.48		231.67	--		
	6/25/2014	234.15		0.8		233.35	--		
	7/17/2014	234.15		1.8		232.35	--		
	8/7/2014	234.15		1.95		232.2	--		
	9/15/2014	234.15		2.19		231.96	--		
	9/25/2014	234.15		6.12		228.03	--		
	10/30/2014	234.15		5.66		228.49	--		
	11/25/2014	234.15		3.89		230.26	--		
	12/29/2014	234.15		4.09		230.06	--		
	1/16/2015	234.15		3.84		230.31	--		
	2/13/2015	234.15		3.65		230.5	--		
	3/24/2015	234.15		3.35		230.8	--		
	4/15/2015	234.15		6.22		227.93	--		
	5/15/2015	234.15		4.94		229.21	--		
	6/23/2015	234.15		2.22		231.93	--		
	7/30/2015	234.15		5.83		228.32	--		
	8/24/2015	234.15		4.07		230.08	--		
	9/21/2015	234.15		4.05		230.1	--		
	11/23/2015	234.15		6.13		228.02	--		
	12/28/2015	234.15		5.45		228.7	--		
	3/23/2016	234.15		1.8		232.35	--		
	6/22/2016	234.15		6.35		227.8	--		
	9/26/2016	234.15		6.41		227.74	--		0
									1170.89

Notes:
 msl - mean sea level
 DTLPH- depth to liquid phase hydrocarbons
 DTW - depth to water
 ft TOC - feet from top of well casing
 ND - not detected
 NM - not measured
 LPH - liquid phase hydrocarbon

SP - Skimmer pump
 PS - Passive skimmer
 PP - Peristaltic pump
 AS - Absorbent sock

Table 3
LPH Recovery Volumes
Site Conceptual Model - Second Addendum
Brunswick Yard, Brunswick, Maryland



LPH Recovery Method	Cumulative LPH Recovered Since July 2009 (gallons)
Skimmer pumps	788.6
Passive skimmers	111.5
Peristaltic pump	200.8
Absorbent Sock	70.0
Totals:	1170.9

Notes:

Cumulative recovery volumes represent volumes recovered from July 2009 through September 2016

Table 4
Historical Groundwater and Analytical Data
Site Conceptual Model - Second Addendum
Brunswick Yard, Brunswick, Maryland

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-01																		
		7/5/1994	8/29/1995	3/10/1997	3/12/1998	11/9/1999	4/11/2000	5/7/2002	5/15/2003	5/7/2004	5/16/2005	6/6/2006	12/27/2006	3/5/2007	5/22/2007	8/9/2007	12/5/2007	2/28/2008	5/23/2008	8/6/2008
		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	VOCs (ug/L)																			
71-43-2	Benzene	2	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.35 U	< 0.7 U	< 0.35 U	
108-20-3	Disopropyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.66 J	0.72	1.2	
637-92-3	Ethyl-t-butyl ether (ETBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	< 0.6 U	< 1.2 U	
1634-04-4	Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97	< 10 U	90	
91-20-3	Naphthalene	NA	< 10 U	< 1 U	< 10 U	6	< 1 U	< 10 U	< 8 U	< 1 U	< 5 U	< 5 U	< 25 U	< 5 U	< 5 U	< 5 U	2.7	< 0.87 U	< 0.43 U	
994-05-8	tert-Amyl Methyl Ether (TAME)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	7.1	9.6	
75-65-0	Tert-Butyl Alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	10 B	42	
108-88-3	Toluene	< 1 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 0.51 U	< 1 U	< 0.51 U	
1330-20-7	Xylenes, Total	< 3 U	< 10 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 2 U	< 2 U	< 3 U	< 0.93 U	< 1.9 U	< 0.93 U	
	TPH (mg/L)																			
DROC10-C28	Diesel Range Organics	9.7	19	13	25.7	7.56	9.58	37.3	2.51	< 0.1 U	0.75	11	12	11	NA	3.7	8.3	3.8	0.91	1.9
PHC610GRO	Gasoline Range Organics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.69	0.068	< 0.05 U	< 0.05 U	0.16	0.17	0.24	0.10

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-02										CSXT MW-03											
		7/5/1994	5/7/2002	5/15/2003	5/6/2004	8/12/2008	7/5/1994	8/29/1995	3/10/1997	3/12/1998	11/9/1999	4/11/2000	5/16/2001	5/7/2002	5/15/2003	5/6/2004	5/16/2005	6/6/2006	12/14/2006	3/5/2007	5/22/2007	8/9/2007	12/3/2007
		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	VOCs (ug/L)																						
71-43-2	Benzene	31	13.3	< 5 U	< 1 U	0.70	< 1 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
108-20-3	Disopropyl Ether	NA	NA	NA	NA	< 0.17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U
637-92-3	Ethyl-t-butyl ether (ETBE)	NA	NA	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U
1634-04-4	Methyl tert-butyl ether	NA	NA	NA	NA	< 0.28 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U	NA
91-20-3	Naphthalene	NA	63	< 9 U	10	7.0	NA	< 10 U	< 1 U	< 10 U	< 1 U	< 1 U	< 11 U	< 9 U	< 11 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	
994-05-8	tert-Amyl Methyl Ether (TAME)	NA	NA	NA	NA	< 0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U
75-65-0	Tert-Butyl Alcohol	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20 U
108-88-3	Toluene	2	5.8	19.1	< 1 U	0.66	< 1 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1330-20-7	Xylenes, Total	22	62.3	103	< 2 U	< 0.93 U	< 3 U	< 10 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	
	TPH (mg/L)																						
DROC10-C28	Diesel Range Organics	110	222	188	4.12	250	0.83	< 0.6 U	0.47	< 0.1 U	0.54	< 0.1 U	< 0.1 U	< 0.1 U	< 0.11 U	< 0.1 U	< 0.095 U	< 0.1 U	< 0.094 U	< 0.097 U	< 0.096 U	0.18	
PHC610GRO	Gasoline Range Organics	NA	NA	NA	NA	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-03																					
		12/3/2007	2/26/2008	5/21/2008	8/7/2008	3/3/2009	9/8/2009	3/9/2010	3/9/2010	9/23/2010	9/23/2010	2/16/2011	8/10/2011	3/22/2012	9/25/2012	1/14/2013	9/17/2013	3/13/2014	9/17/2014	3/26/2015	9/23/2015	3/25/2016	9/27/2016
		N	N	N	N	N	N	FD	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N
	VOCs (ug/L)																						
71-43-2	Benzene	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
108-20-3	Disopropyl Ether	< 1 U	< 0.17 U	< 0.17 U	< 0.17 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
637-92-3	Ethyl-t-butyl ether (ETBE)	< 1 U	< 0.6 U	< 0.6 U	< 0.6 U	NA	< 5 U*	< 5 U*	< 5 U*	< 5 U*	< 5 U*	< 5 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1634-04-4	Methyl tert-butyl ether	NA	< 0.28 U	< 0.28 U	< 0.28 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
91-20-3	Naphthalene	< 1 U	< 0.43 U	< 0.43 U	< 0.43 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
994-05-8	tert-Amyl Methyl Ether (TAME)	< 1 U	< 0.53 U	< 0.53 U	< 0.53 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
75-65-0	Tert-Butyl Alcohol	< 20 U	< 3.6 U	< 3.6 U	< 3.6 U	< 20 U	< 5 U	< 5 U*	< 5 U*	< 5 U*	< 5 U*	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	
108-88-3	Toluene	< 1 U	< 0.51 U	< 0.51 U	< 0.51 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1330-20-7	Xylenes, Total	< 3 U	< 0.93 U	< 0.93 U	< 0.93 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 10 U	
	TPH (mg/L)																						
DROC10-C28	Diesel Range Organics	< 0.098 U	0.22	< 0.04 U	< 0.043 U	< 0.47 U	0.16	0.18	0.16	0.26	0.27	0.23	0.13	0.14	< 0.1 U	0.049 J	0.086 JB	0.086 JB	0.083 J	0.11 B	0.20	0.18	
PHC610GRO	Gasoline Range Organics	< 0.05 U	< 0.0042 U	< 0.0042 U	< 0.0042 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05 U	< 0.05 U	< 0.05 U	0.06 B	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	

Notes:
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
<1U - concentration is less than the reporting limit
mg/L - milligrams per liter
ug/L - micrograms per liter
NA - Not Analyzed
J* - Concentration is estimated
B - Constituent was detected in a laboratory method blank

Table 4
 Historical Groundwater and Analytical Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland

CAS No	Location ID	CSXT MW-04												CSXT MW-05											
	Sample Date	7/5/1994	7/5/1994	3/12/1998	11/9/1999	4/11/2000	5/16/2001	5/7/2002	5/15/2003	5/6/2004	5/16/2005	6/6/2006	12/7/2007	8/29/1995	8/29/1995	3/10/1997	3/12/1998	4/11/2000	5/16/2001	5/7/2002	5/15/2003	5/6/2004	5/16/2005	5/16/2005	
	Sample Type Code	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Chemical name																									
	VOCs (ug/L)																								
71-43-2	Benzene	83	94	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.63 J	< 5 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
108-20-3	Diisopropyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
637-92-3	Ethyl-t-butyl ether (ETBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1634-04-4	Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
91-20-3	Naphthalene	NA	NA	< 10 U	< 1 U	< 10 U	< 10 U	< 9 U	< 1 U	< 5 U	< 1 U	< 1 U	23	23	< 1 U	< 10 U	< 1 U	< 11 U	< 9 U	< 9 U	< 1 U	< 5 U	< 5 U		
994-05-8	tert-Amyl Methyl Ether (TAME)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
75-65-0	Tert-Butyl Alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
108-88-3	Toluene	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U		
1330-20-7	Xylenes, Total	13	12	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	NA	< 3 U	< 10 U	< 10 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U		
	TPH (mg/L)																								
DROC10-C28	Diesel Range Organics	150	210	78.8	53.4	13.1	1.27	2.66	< 0.08 U	< 0.11 U	3.9	NA	6.7	4.3	4.3	1.16	77.3	28.9	13.9	36.7	8.22	2.31	11	20	
PHC610GRO	Gasoline Range Organics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.046 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

CAS No	Location ID	CSXT MW-05												CSXT MW-06							CSXT MW-06R					
	Sample Date	6/6/2006	12/14/2006	3/5/2007	5/22/2007	5/22/2007	8/9/2007	12/5/2007	2/26/2008	5/22/2008	8/6/2008	8/29/1995	11/9/1999	4/11/2000	5/16/2001	5/7/2002	5/15/2003	5/7/2004	5/16/2005	6/6/2006	12/15/2006	3/2/2007	5/23/2007	8/10/2007		
	Sample Type Code	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Chemical name																										
	VOCs (ug/L)																									
71-43-2	Benzene	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	< 5 U	10	16.8	10.2	6.6	11.8	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U		
108-20-3	Diisopropyl Ether	NA	NA	NA	NA	NA	NA	0.65 J	0.69	0.40	0.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
637-92-3	Ethyl-t-butyl ether (ETBE)	NA	NA	NA	NA	NA	NA	< 1 U	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1634-04-4	Methyl tert-butyl ether	NA	110	52	39	47	140	84	58	5.2	9.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U		
91-20-3	Naphthalene	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 0.43 U	< 0.43 U	< 0.43 U	< 10 U	20	< 5 U	< 11 U	< 10 U	< 11 U	9.9	< 25 U	< 5 U	< 5 U	< 5 U	< 5 U			
994-05-8	tert-Amyl Methyl Ether (TAME)	NA	NA	NA	NA	NA	NA	0.78 J	< 0.53 U	< 0.53 U	< 0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
75-65-0	Tert-Butyl Alcohol	NA	NA	NA	NA	NA	NA	4.7 J	< 3.6 U	< 3.6 U	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
108-88-3	Toluene	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.51 U	< 0.51 U	< 0.51 U	< 5 U	< 1 U	< 5 U	3.8	6.2	54.3	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U		
1330-20-7	Xylenes, Total	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 0.93 U	< 0.93 U	< 0.93 U	< 10 U	< 2 U	< 10 U	34.7	187	253	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U		
	TPH (mg/L)																									
DROC10-C28	Diesel Range Organics	21	14	9	1.5	1.5	2.5	3.4	10	6.2	14	6.8	251	79.4	45	150	250	15.4	24	2.2	5.1	2.4	1.3	2.5		
PHC610GRO	Gasoline Range Organics	NA	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	0.070	0.061	0.0082	0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	0.067	0.05	0.064		

CAS No	Location ID	CSXT MW-06R																							
	Sample Date	12/7/2007	3/3/2008	5/27/2008	8/11/2008	3/25/2015	8/11/2008	2/26/2009	9/3/2009	3/9/2010	9/23/2010	2/15/2011	2/15/2011	8/3/2011	8/10/2011	3/26/2012	3/26/2012	9/26/2012	9/26/2012	1/16/2013	9/18/2013	3/13/2014	9/16/2014	12/30/2014	
	Sample Type Code	N	N	N	FD	N	N	N	N	N	N	N	FD	N	FD	N	FD	N	FD	N	N	N	N	N	N
Chemical name																									
	VOCs (ug/L)																								
71-43-2	Benzene	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	< 1.0 U	< 0.35 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
108-20-3	Diisopropyl Ether	1.2	0.82	< 0.17 U	0.56	< 1.0 U	0.58	0.77 J	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
637-92-3	Ethyl-t-butyl ether (ETBE)	1.1	0.79	< 0.6 U	< 0.6 U	< 1.0 U	< 0.6 U	NA	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1634-04-4	Methyl tert-butyl ether	3.7	3.5	< 0.28 U	6.6	< 1.0 U	6.8	2.0	< 5 U	1.9 J	< 5 U	< 5 U	< 5 U	1.6	< 1 U	< 1 U	< 1 U	1.8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
91-20-3	Naphthalene	< 1 U	< 0.43 U	< 0.43 U	0.58	< 1.0 U	0.46	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
994-05-8	tert-Amyl Methyl Ether (TAME)	< 1 U	< 0.53 U	< 0.53 U	< 0.53 U	< 1.0 U	< 0.53 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
75-65-0	Tert-Butyl Alcohol	6.3 J	3.9	< 3.6 U	< 3.6 U	< 10 U	< 3.6 U	< 20 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	29	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	
108-88-3	Toluene	< 1 U	< 0.51 U	< 0.51 U	< 0.51 U	< 1.0 U	< 0.51 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1330-20-7	Xylenes, Total	< 3 U	< 0.93 U	< 0.93 U	< 0.93 U	< 5.0 U	< 0.93 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5.0 U	
	TPH (mg/L)																								
DROC10-C28	Diesel Range Organics	2.2	1.5	1.9	14	4.4	2.4	4.0 J	3.9	4.2	2.4	11	11	3.5	4.8	11	13	2.0	2.0	7.7	16 B	NA	2.6	4.4	
PHC610GRO	Gasoline Range Organics	0.039 J	0.055	0.13	0.11	0.11	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05 U	0.059	0.13	0.18	0.19 B	0.15	0.13 B	

Notes:
 TPH - Total Petroleum Hydrocarbons
 VOCs - Volatile Organic Compounds
 <1U - concentration is less than the reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms per liter
 NA - Not Analyzed
 J* - Concentration is estimated
 B - Constituent was detected in a laboratory method blank

Table 4
 Historical Groundwater and Analytical Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-06R										CSXT MW-08												
		9/22/2015 N	3/24/2016 N	9/28/2016 N	8/29/1995 N	3/10/1997 N	3/12/1998 N	11/9/1999 N	4/11/2000 N	5/16/2001 N	5/7/2002 N	5/15/2003 N	5/7/2004 N	5/16/2005 N	6/6/2006 FD	6/6/2006 N	12/15/2006 N	2/28/2007 N	5/24/2007 N	8/9/2007 N	11/30/2007 N	2/27/2008 N	5/21/2008 N	8/7/2008 FD
VOCs (ug/L)																								
71-43-2	Benzene	<1.0 U	<1.0 U	<1.0 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	
108-20-3	Diisopropyl Ether	<1.0 U	<1.0 U	<1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0	1.5	< 0.17 U	
637-92-3	Ethyl-t-butyl ether (ETBE)	<1.0 U	NA	<1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.93 J	1.4	0.66	
1634-04-4	Methyl tert-butyl ether	<1.0 U	<1.0 U	<1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	22	36	
91-20-3	Naphthalene	<1.0 U	<1.0 U	<1.0 U	< 10 U	< 1 U	< 10 U	< 1 U	< 1 U	< 10 U	< 12 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1 U	< 0.43 U	< 0.43 U	
994-05-8	tert-Amyl Methyl Ether (TAME)	<1.0 U	<1.0 U	<1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.81 J	0.69	< 0.53 U	
75-65-0	Tert-Butyl Alcohol	<1.0 U	<1.0 U	<1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20 U	< 3.6 U	< 3.6 U	
108-88-3	Toluene	<1.0 U	<1.0 U	<1.0 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.51 U	< 0.51 U	
1330-20-7	Xylenes, Total	<5.0 U	<5.0 U	<10 U	< 10 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 0.93 U	< 0.93 U	
TPH (mg/L)																								
DROC10-C28	Diesel Range Organics	2.8	4.0	5.1	< 0.6 U	< 0.1 U	< 0.1 U	0.42	< 0.1 U	< 0.1 U	< 0.11 U	< 0.12 U	< 0.1 U	0.14	< 0.1 U	< 0.098 U	0.097	0.15	< 0.097 U	0.19	< 0.097 U	0.14	< 0.041 U	< 0.04 U
PHC610GRO	Gasoline Range Organics	0.13	0.15	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	0.026 J	0.027	0.020	0.025

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-08										CSXT MW-09											
		8/7/2008 N	1/15/2013 N	8/29/1995 N	3/10/1997 N	3/12/1998 N	11/9/1999 N	4/11/2000 N	5/16/2001 N	5/7/2002 N	5/15/2003 N	5/7/2004 N	5/16/2005 N	6/6/2006 N	12/18/2006 N	2/28/2007 N	5/24/2007 N	8/10/2007 N	11/30/2007 N	2/27/2008 N	5/21/2008 N	8/7/2008 N	1/15/2013 N
VOCs (ug/L)																							
71-43-2	Benzene	< 0.35 U	< 1 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 0.35 U	< 0.35 U	< 0.35 U	< 1 U
108-20-3	Diisopropyl Ether	1.4	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5 U	1.5	< 0.17 U	0.99	< 1 U
637-92-3	Ethyl-t-butyl ether (ETBE)	1.9	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5 U	1.1	< 0.6 U	0.85	< 1 U
1634-04-4	Methyl tert-butyl ether	40	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U	NA	7.0	4.6	4.4
91-20-3	Naphthalene	< 0.43 U	< 1 U	< 10 U	< 1 U	< 10 U	< 1 U	< 1 U	< 11 U	< 10 U	< 17 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0.43 U	< 0.43 U	< 0.43 U	< 1 U
994-05-8	tert-Amyl Methyl Ether (TAME)	1.5	< 1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5 U	< 0.53 U	< 0.53 U	< 0.53 U	< 1 U
75-65-0	Tert-Butyl Alcohol	< 3.6 U	< 5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100 U	4.9 B	< 3.6 U	< 3.6 U	< 5 U
108-88-3	Toluene	< 0.51 U	< 1 U	< 5 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 0.51 U	< 0.51 U	< 0.51 U	< 1 U
1330-20-7	Xylenes, Total	< 0.93 U	< 10 U	< 10 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 15 U	< 0.93 U	< 0.93 U	< 0.93 U	< 10 U
TPH (mg/L)																							
DROC10-C28	Diesel Range Organics	< 0.04 U	0.039 J	< 0.6 U	< 0.1 U	< 0.1 U	1.5	1.69	< 0.1 U	< 0.1 U	< 0.12 U	< 0.11 U	0.38	0.16	0.39	0.68	0.56	0.48	< 0.097 U	0.15	< 0.041 U	< 0.039 U	0.15
PHC610GRO	Gasoline Range Organics	0.026	< 0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	0.0073 J	0.0094	0.0079	0.0074	< 0.05 U

CAS No	Location ID Sample Date Sample Type Code Chemical name	CSXT MW-20					CSXT MW-21						
		12/7/2007 N	3/3/2008 N	5/27/2008 N	8/11/2008 N	1/16/2013 N	6/26/2007 N	8/8/2007 N	12/5/2007 N	2/26/2008 N	5/23/2008 N	8/6/2008 N	1/17/2013 N
VOCs (ug/L)													
71-43-2	Benzene	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	< 1 U	< 1 U	< 1 U	< 0.35 U	< 0.35 U	< 0.35 U	< 1 U	< 1 U
108-20-3	Diisopropyl Ether	< 1 U	< 0.17 U	< 0.17 U	< 0.17 U	< 1 U	NA	NA	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 1 U
637-92-3	Ethyl-t-butyl ether (ETBE)	< 1 U	< 0.6 U	< 0.6 U	< 0.6 U	< 1 U	NA	NA	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 1 U
1634-04-4	Methyl tert-butyl ether	1.0	0.50	< 0.28 U	< 0.28 U	< 1 U	< 10 U	< 10 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 1 U
91-20-3	Naphthalene	< 1 U	< 0.43 U	< 0.43 U	0.47	< 1 U	< 5 U	< 5 U	< 0.43 U	< 0.43 U	< 0.43 U	< 0.43 U	< 1 U
994-05-8	tert-Amyl Methyl Ether (TAME)	< 1 U	< 0.53 U	< 0.53 U	< 0.53 U	< 1 U	NA	NA	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U	< 1 U
75-65-0	Tert-Butyl Alcohol	< 20 U	< 3.6 U	< 3.6 U	< 3.6 U	< 5 U	NA	NA	< 20 U	< 3.6 U	< 3.6 U	< 3.6 U	< 5 U
108-88-3	Toluene	< 1 U	< 0.51 U	< 0.51 U	< 0.51 U	< 1 U	< 1 U	< 1 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 1 U
1330-20-7	Xylenes, Total	< 3 U	< 0.93 U	< 0.93 U	< 0.93 U	< 10 U	< 2 U	< 2 U	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	< 10 U
TPH (mg/L)													
DROC10-C28	Diesel Range Organics	< 0.098 U	< 0.039 U	< 0.038 U	< 0.044 U	0.036 J	2.2	5.0	0.57	1.8	1.7	0.6	< 0.05 U
PHC610GRO	Gasoline Range Organics	< 0.05 U	< 0.0042 U	< 0.0042 U	< 0.0042 U	0.065	< 0.05 U	< 0.05 U	0.065	< 0.0042 U	0.0082	0.0082	< 0.05 U

Notes:
 TPH - Total Petroleum Hydrocarbons
 VOCs - Volatile Organic Compounds
 <1U - concentration is less than the reporting limit

mg/L - milligrams per liter
 ug/L - micrograms per liter

NA - Not Analyzed
 J* - Concentration is estimated
 B - Constituent was detected in a laboratory method blank

Table 4
 Historical Groundwater and Analytical Data
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland

CAS No	Location ID	CSXT MW-26				CSXT MW-27				CSXT MW-28				CSXT MW-29											
		Sample Date	6/25/2007	8/9/2007	12/6/2007	3/4/2009	6/26/2007	12/7/2007	2/28/2008	2/28/2008	5/21/2008	8/7/2008	2/28/2008	8/8/2008	12/5/2007	2/26/2008	5/23/2008	8/6/2008	3/3/2009	9/4/2009	9/22/2010	2/16/2011	8/10/2011	3/26/2012	
		Sample Type Code	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		VOCs (ug/L) Benzene Disopropyl Ether Ethyl-t-butyl ether (ETBE) Methyl tert-butyl ether Naphthalene tert-Amyl Methyl Ether (TAME) Tert-Butyl Alcohol Toluene Xylenes, Total																							
		TPH (mg/L) Diesel Range Organics Gasoline Range Organics																							

CAS No	Location ID	CSXT MW-29					CSXT MW-30					CSXT MW-31				CSXT MW-32			CSXT MW-33				
		Sample Date	9/25/2012	1/24/2013	9/17/2013	3/14/2014	9/17/2014	3/26/2015	9/23/2015	3/25/2016	9/21/2016	12/6/2007	8/6/2008	3/3/2009	12/6/2007	2/28/2008	5/27/2008	8/6/2008	12/5/2007	2/25/2008	5/27/2008	12/5/2007	2/27/2008
		Sample Type Code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		VOCs (ug/L) Benzene Disopropyl Ether Ethyl-t-butyl ether (ETBE) Methyl tert-butyl ether Naphthalene tert-Amyl Methyl Ether (TAME) Tert-Butyl Alcohol Toluene Xylenes, Total																					
		TPH (mg/L) Diesel Range Organics Gasoline Range Organics																					

CAS No	Location ID	CSXT MW-35					CSXT MW-37				CSXT MW-38		CSXT MW-39				CSXT MW-43								
		Sample Date	12/4/2007	2/26/2008	5/22/2008	8/8/2008	2/6/2013	12/4/2007	5/28/2008	5/28/2008	12/5/2007	12/4/2007	2/26/2008	5/21/2008	8/7/2008	12/7/2007	12/7/2007	2/29/2008	5/23/2008	8/11/2008	3/4/2009	9/3/2009	3/9/2010	9/22/2010	9/22/2011
		Sample Type Code	N	N	N	N	N	N	FD	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
		VOCs (ug/L) Benzene Disopropyl Ether Ethyl-t-butyl ether (ETBE) Methyl tert-butyl ether Naphthalene tert-Amyl Methyl Ether (TAME) Tert-Butyl Alcohol Toluene Xylenes, Total																							
		TPH (mg/L) Diesel Range Organics Gasoline Range Organics																							

Notes:
 TPH - Total Petroleum Hydrocarbons
 VOCs - Volatile Organic Compounds
 <1U - concentration is less than the reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms per liter
 NA - Not Analyzed
 J* - Concentration is estimated
 B - Constituent was detected in a laboratory method blank

Table 5
LPH Transmissivity Test Results
Site Conceptual Model - Second Addendum
Brunswick Yard, Brunswick, Maryland



Well	Test Date	LPH Transmissivity (ft ² /d)	Test Date	LPH Transmissivity (ft ² /d)
MW-41	1/23/2013	0.12	6/2/2016	0.25
MW-53	1/23/2013	<0.8	6/2/2016	0.27
MW-54	1/23/2013	<0.8	6/2/2016	0.13
MW-55	1/22/2013	<0.8	6/28/2016	0.14
MW-56	1/24/2013	0.64	7/14/2016	0.56
MW-59	--	--	6/2/2016	0.009

Notes:

ft²/d: square feet per day.

LPH: Liquid-phase hydrocarbons.

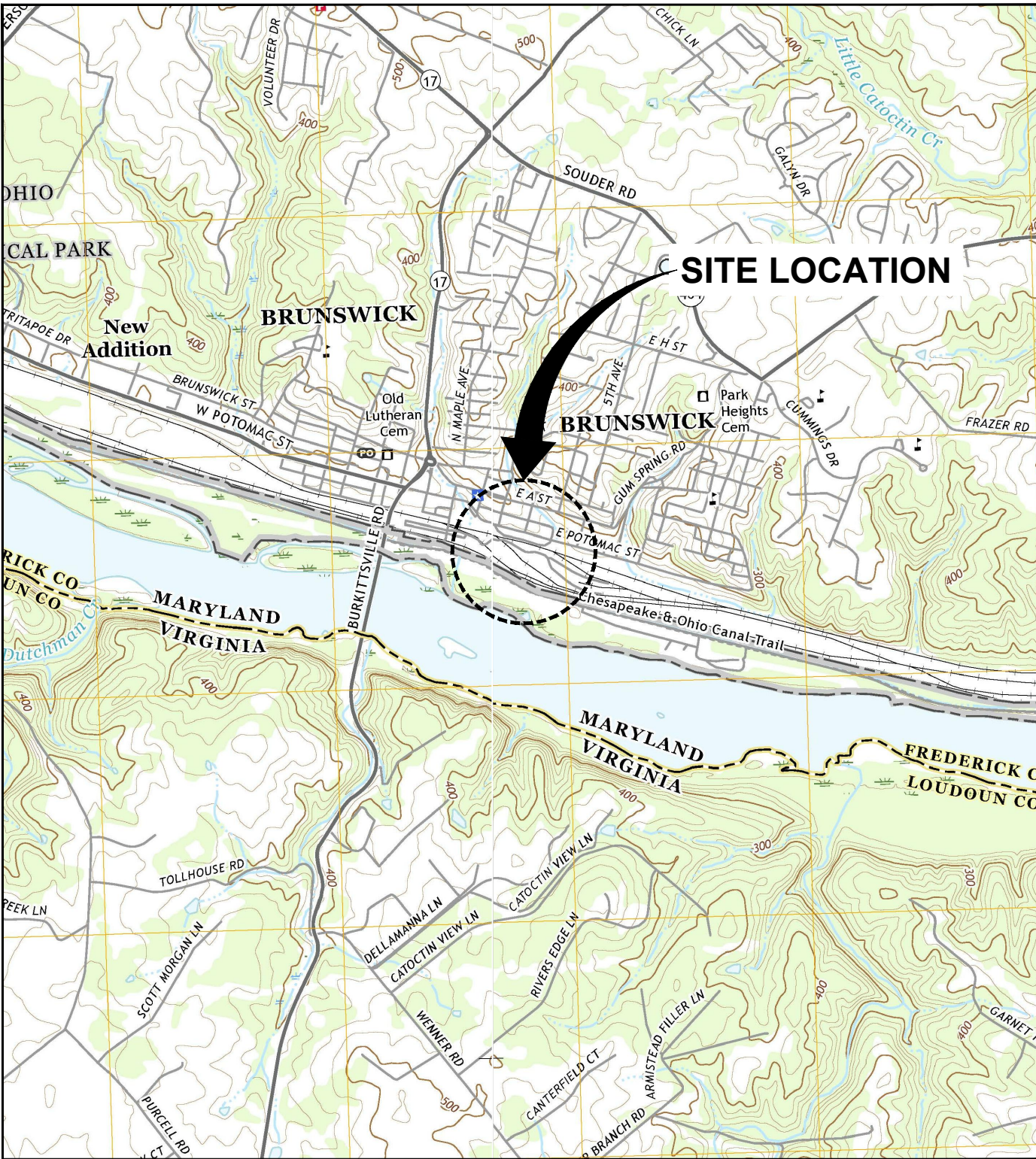
No tests were conducted at MW-59 in 2013.

Multiple tests were conducted at some wells in 2013; the first test date is shown, along with an interpreted final result for each well.

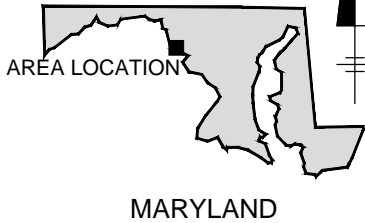
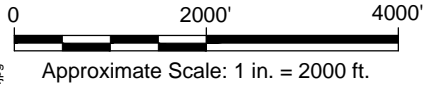
FIGURES




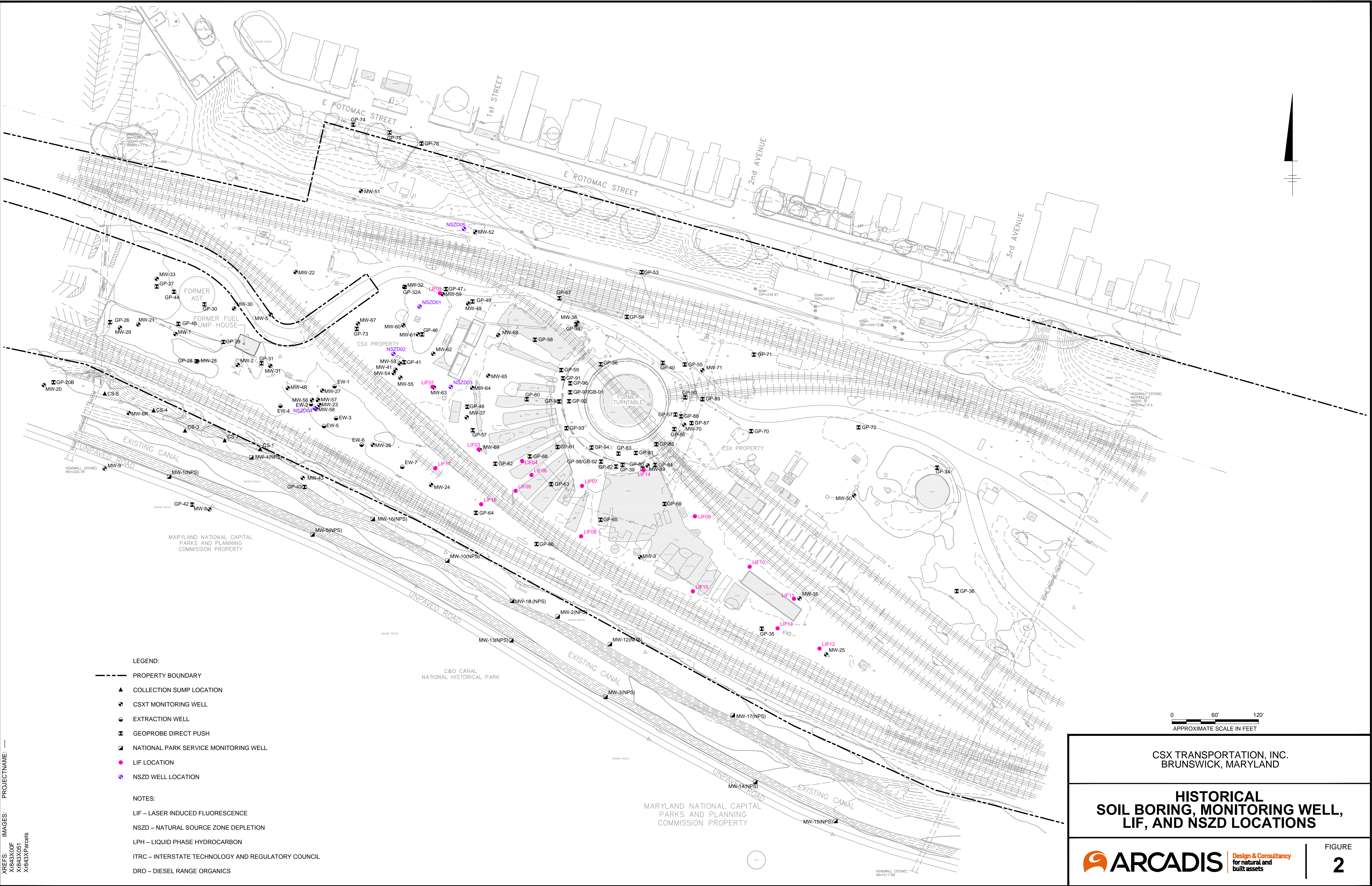
CITY:SYRACUSE-NY DIV:GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Op) PM:(Reg) TM:(Op) LVR:(Op)ON:OFF-REF: Z:ENV:CAD:STRACUSE:ACT:MD:0008430013000168431316f01.dwg LAYOUT: 1 SAVED: 12/22/2016 3:16 PM ACADVER: 19.1S (LMS TECH) PAGES:SETUP: --- PLOT:STYLE:TABLE: PLT:FULL:CTB PLOTTED: 12/22/2016 3:38 PM BY: SANCHEZ, ADRIAN



REFERENCE: BASE MAP USGS 7.5 MIN. TOPO. QUAD., POINTS OF ROCK, MD-VA, AND HARPERS FERRY, WV-VA-MD, 2016, MARYLAND COORDINATE SYSTEM NAD83.



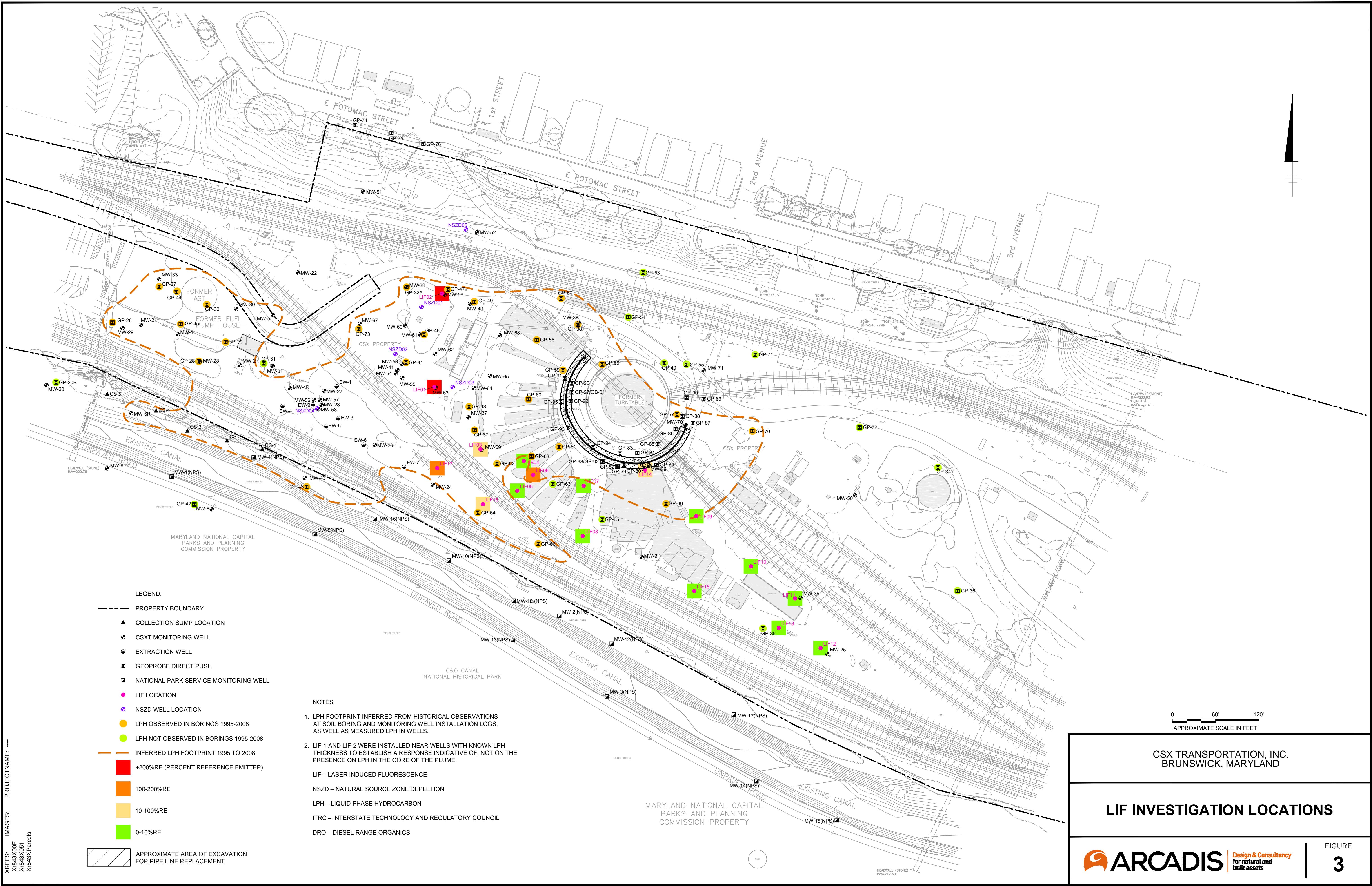
CSX TRANSPORTATION, INC. BRUNSWICK, MARYLAND	
SITE LOCATION MAP	
 ARCADIS	<i>Design & Consultancy for natural and built assets</i>
FIGURE 1	



- LEGEND:**
- PROPERTY BOUNDARY
 - COLLECTION SUMP LOCATION
 - CSXT MONITORING WELL
 - EXTRACTION WELL
 - GEOPROBE DIRECT PUSH
 - NATIONAL PARK SERVICE MONITORING WELL
 - LIF LOCATION
 - NSZD WELL LOCATION
- NOTES:**
- LIF – LASER INDUCED FLUORESCENCE
 - NSZD – NATURAL SOURCE ZONE DEPLETION
 - LPH – LIQUID PHASE HYDROCARBON
 - ITRC – INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL
 - DRO – DIESEL RANGE ORGANICS

0 60' 120'
 APPROXIMATE SCALE IN FEET

CSX TRANSPORTATION, INC. BRUNSWICK, MARYLAND	
HISTORICAL SOIL BORING, MONITORING WELL, LIF, AND NSZD LOCATIONS	
Design & Consultancy for natural and built assets	FIGURE 2



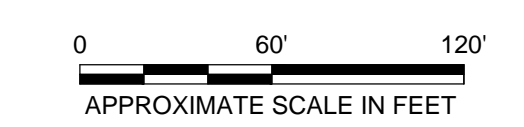
LEGEND:

- PROPERTY BOUNDARY
- ▲ COLLECTION SUMP LOCATION
- CSXT MONITORING WELL
- EXTRACTION WELL
- ⊠ GEOPROBE DIRECT PUSH
- ▣ NATIONAL PARK SERVICE MONITORING WELL
- LIF LOCATION
- NSZD WELL LOCATION
- LPH OBSERVED IN BORINGS 1995-2008
- LPH NOT OBSERVED IN BORINGS 1995-2008
- INFERRED LPH FOOTPRINT 1995 TO 2008
- +200%RE (PERCENT REFERENCE EMITTER)
- 100-200%RE
- 10-100%RE
- 0-10%RE
- ▨ APPROXIMATE AREA OF EXCAVATION FOR PIPE LINE REPLACEMENT

NOTES:

- LPH FOOTPRINT INFERRED FROM HISTORICAL OBSERVATIONS AT SOIL BORING AND MONITORING WELL INSTALLATION LOGS, AS WELL AS MEASURED LPH IN WELLS.
- LIF-1 AND LIF-2 WERE INSTALLED NEAR WELLS WITH KNOWN LPH THICKNESS TO ESTABLISH A RESPONSE INDICATIVE OF, NOT ON THE PRESENCE ON LPH IN THE CORE OF THE PLUME.

LIF – LASER INDUCED FLUORESCENCE
 NSZD – NATURAL SOURCE ZONE DEPLETION
 LPH – LIQUID PHASE HYDROCARBON
 ITRC – INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL
 DRO – DIESEL RANGE ORGANICS



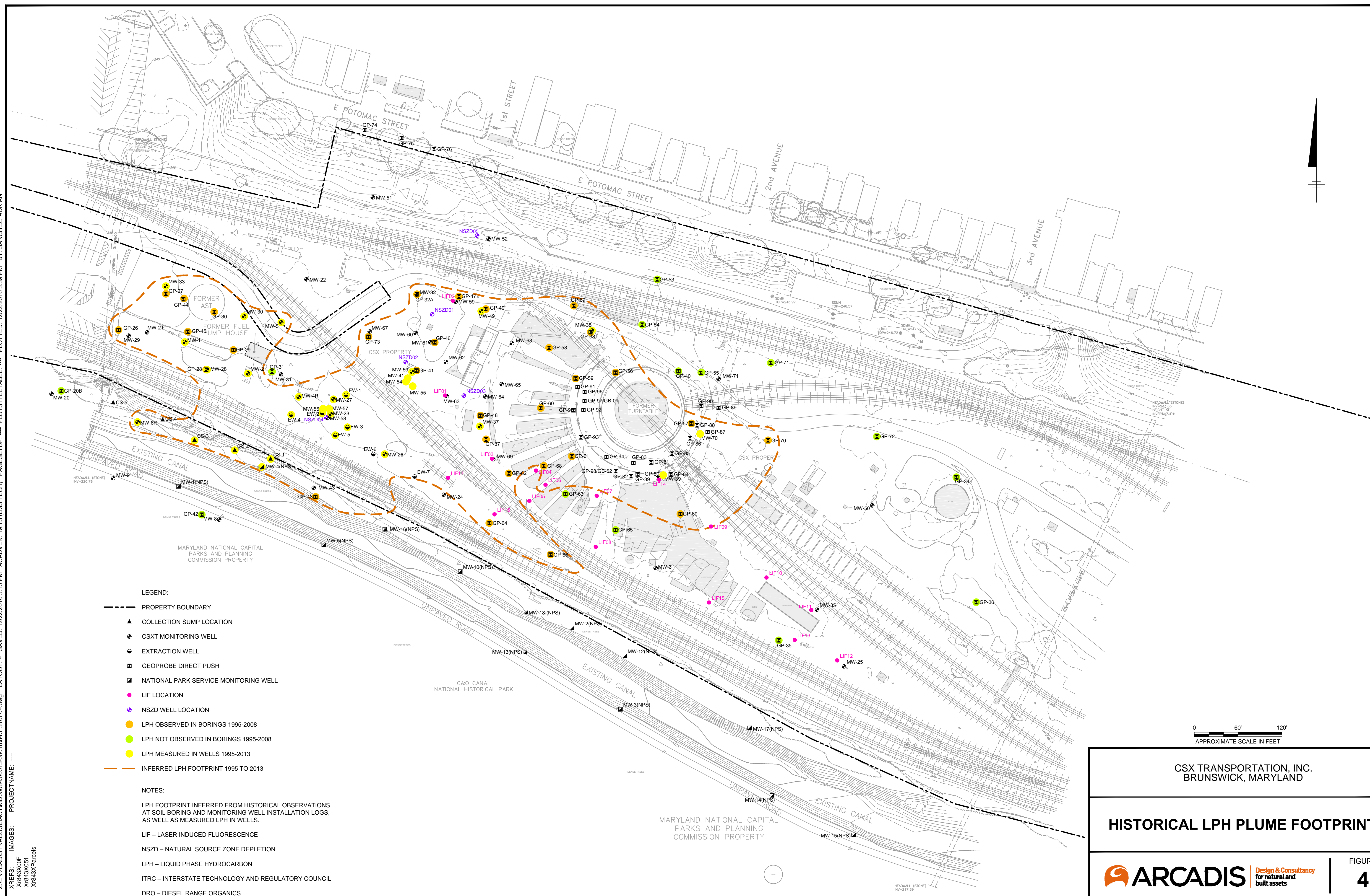
CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

LIF INVESTIGATION LOCATIONS

ARCADIS Design & Consultancy
for natural and built assets

FIGURE
3

CITY:SYRACUSE;ENV_DIV:GROUP:ENV_DBA.SANCHEZ.LDALS_PIC:(Opt) PM:(Read) TM:(Opt) LVR:(NONE) OFF=REF Z:\NEWCAD\SYRACUSE\SELECT\MID\000843001\3000168431318F04.dwg LAYOUT: 4 - SAVED: 12/22/2016 3:15 PM ACADVER: 19.1 (LMS TECH) PAGES: 4 PLOTSETUP: PLOTSTYLETABLE: PLOTTED: 12/22/2016 3:39 PM BY: SANCHEZ, ADRIAN



- LEGEND:**
- PROPERTY BOUNDARY
 - ▲ COLLECTION SUMP LOCATION
 - CSXT MONITORING WELL
 - EXTRACTION WELL
 - ⊠ GEOPROBE DIRECT PUSH
 - ⊠ NATIONAL PARK SERVICE MONITORING WELL
 - LIF LOCATION
 - NSZD WELL LOCATION
 - LPH OBSERVED IN BORINGS 1995-2008
 - LPH NOT OBSERVED IN BORINGS 1995-2008
 - LPH MEASURED IN WELLS 1995-2013
 - INFERRED LPH FOOTPRINT 1995 TO 2013

NOTES:

LPH FOOTPRINT INFERRED FROM HISTORICAL OBSERVATIONS AT SOIL BORING AND MONITORING WELL INSTALLATION LOGS, AS WELL AS MEASURED LPH IN WELLS.

LIF – LASER INDUCED FLUORESCENCE

NSZD – NATURAL SOURCE ZONE DEPLETION

LPH – LIQUID PHASE HYDROCARBON

ITRC – INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL

DRO – DIESEL RANGE ORGANICS

0 60' 120'
APPROXIMATE SCALE IN FEET

CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

HISTORICAL LPH PLUME FOOTPRINT

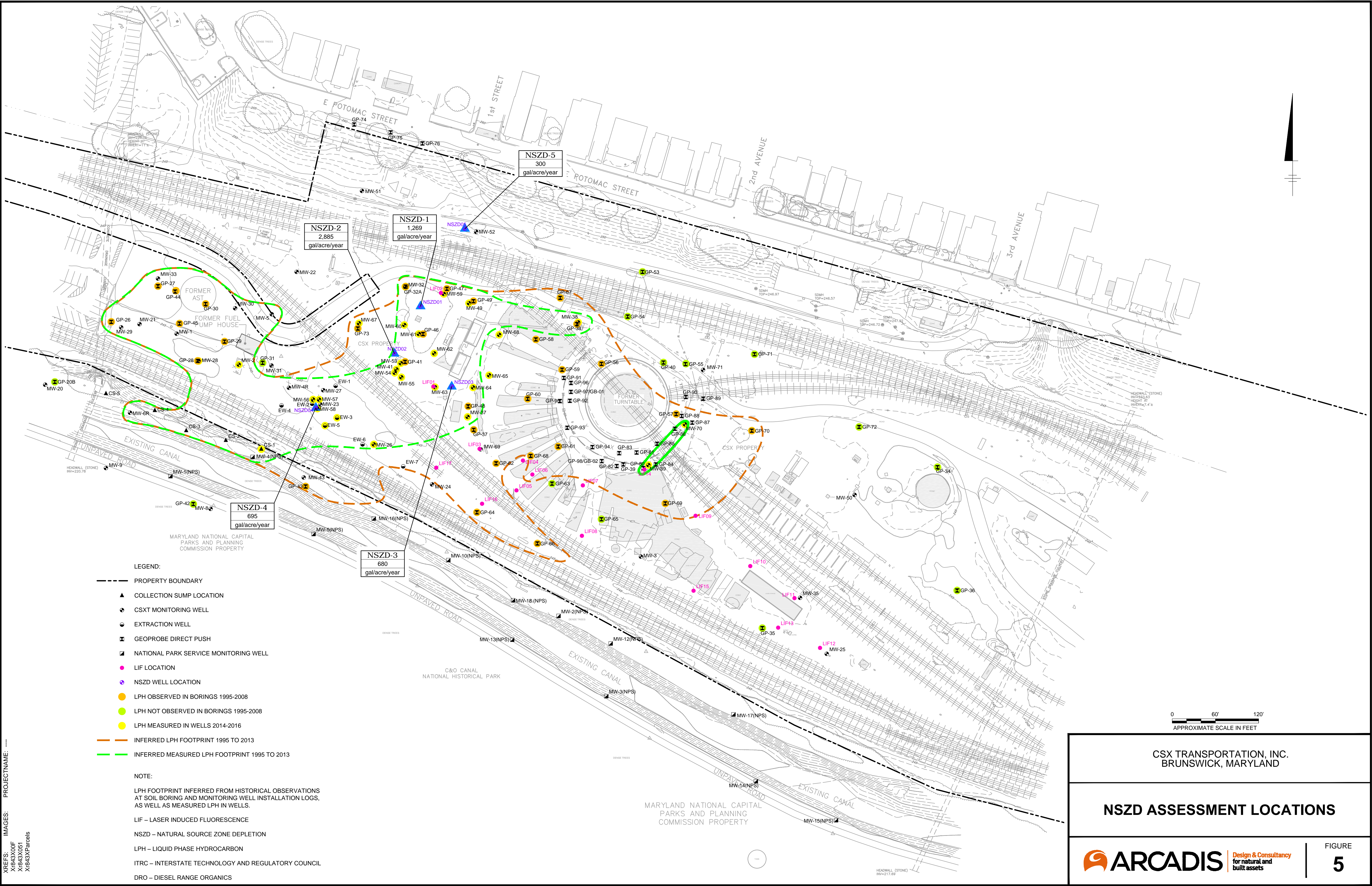
ARCADIS Design & Consultancy
for natural and built assets

FIGURE
4

CITY:SYRACUSE;NY;DIV:GROUP:ENV;DBA:SANCHEZ;LDALS;PIC:(OPI);PM:(REAR);TM:(OPI);LVR:(OPI);OFF:REF;PLOT:12/22/2016 3:15 PM;ACADVER:19.1S(LMS TECH);PAGESETUP:5;SAVED:12/22/2016 3:15 PM;ACADVER:19.1S(LMS TECH);PAGESSETUP:5;SAVED:12/22/2016 3:40 PM;BY:SANCHEZ,ADRIAN

PROJECTNAME: ...

IMAGES: X1643X00F X1643X00T X1643X00S



- LEGEND:**
- PROPERTY BOUNDARY
 - ▲ COLLECTION SUMP LOCATION
 - CSXT MONITORING WELL
 - EXTRACTION WELL
 - ⊠ GEOPROBE DIRECT PUSH
 - ⊠ NATIONAL PARK SERVICE MONITORING WELL
 - LIF LOCATION
 - NSZD WELL LOCATION
 - LPH OBSERVED IN BORINGS 1995-2008
 - LPH NOT OBSERVED IN BORINGS 1995-2008
 - LPH MEASURED IN WELLS 2014-2016
 - INFERRED LPH FOOTPRINT 1995 TO 2013
 - INFERRED MEASURED LPH FOOTPRINT 1995 TO 2013

NOTE:

LPH FOOTPRINT INFERRED FROM HISTORICAL OBSERVATIONS AT SOIL BORING AND MONITORING WELL INSTALLATION LOGS, AS WELL AS MEASURED LPH IN WELLS.

LIF – LASER INDUCED FLUORESCENCE

NSZD – NATURAL SOURCE ZONE DEPLETION

LPH – LIQUID PHASE HYDROCARBON

ITRC – INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL

DRO – DIESEL RANGE ORGANICS

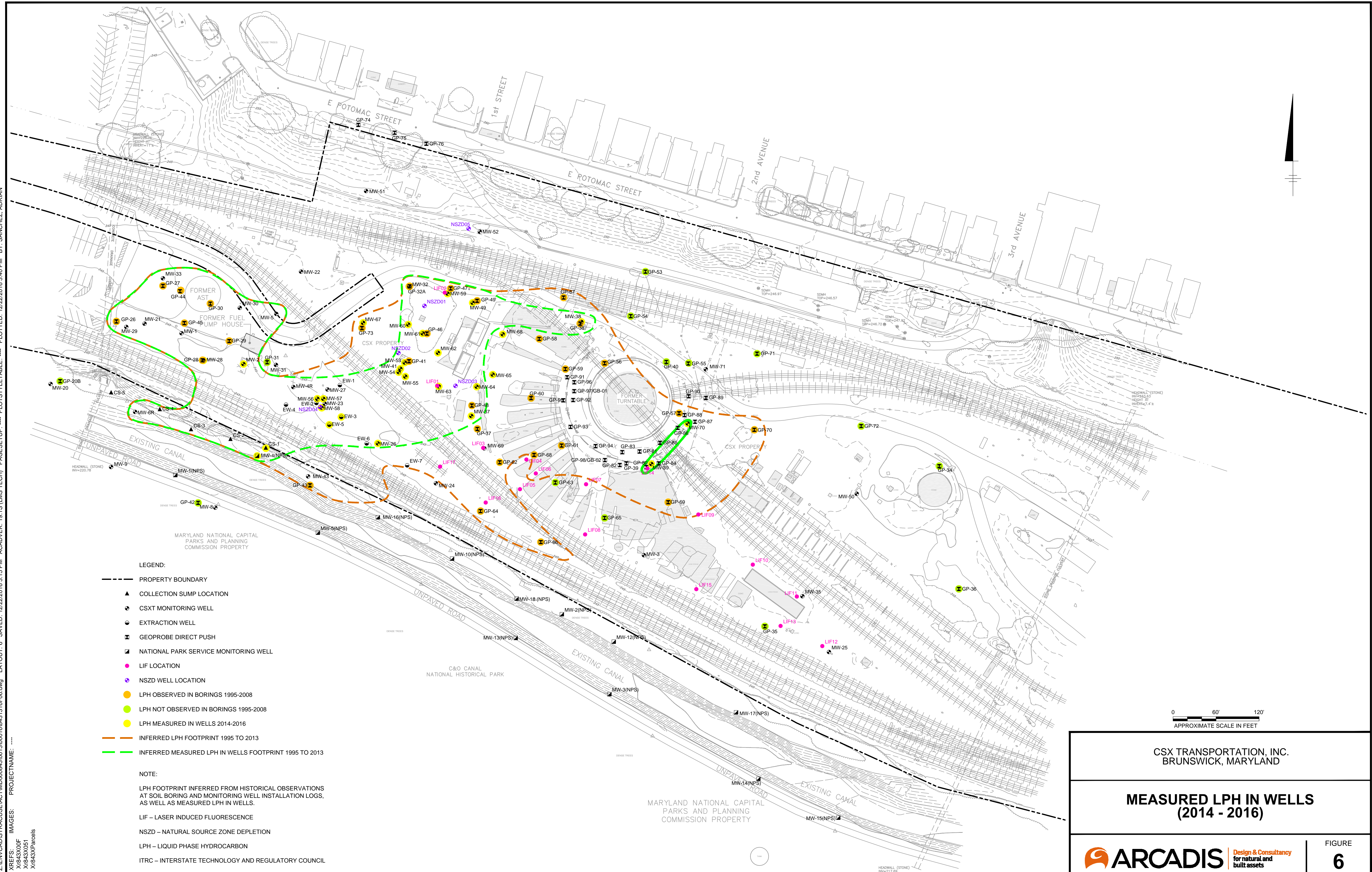
CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

NSZD ASSESSMENT LOCATIONS

ARCADIS Design & Consultancy
for natural and built assets

FIGURE
5

CITY:SYRACUSE,NY DIV:GROUP:ENV DBA:SANCHEZ,LDALS PIC:(Opt) PM:(Read) TM:(Opt) LVR:(NONE)OFF=REF- PLOTTED:12/22/2016 3:40 PM BY:SANCHEZ,ADRIAN
 Z:\NEW\CAD\SYRACUSE\SELECT\MID\000843001\3\0001684313\16F06.dwg LAYOUT: 6 SAVED: 12/22/2016 3:15 PM ACADVER: 19.15 (LMS TECH) PAGESETUP: PLOTSTYLETABLE: PLOTSTATUS: PROJECTNAME:
 XREFS: IMAGES: X1643X00F X1643X00T X1643X00S



LEGEND:

- PROPERTY BOUNDARY
- ▲ COLLECTION SUMP LOCATION
- CSXT MONITORING WELL
- EXTRACTION WELL
- ⊠ GEOPROBE DIRECT PUSH
- ⊠ NATIONAL PARK SERVICE MONITORING WELL
- LIF LOCATION
- NSZD WELL LOCATION
- LPH OBSERVED IN BORINGS 1995-2008
- LPH NOT OBSERVED IN BORINGS 1995-2008
- LPH MEASURED IN WELLS 2014-2016
- INFERRED LPH FOOTPRINT 1995 TO 2013
- INFERRED MEASURED LPH IN WELLS FOOTPRINT 1995 TO 2013

NOTE:

LPH FOOTPRINT INFERRED FROM HISTORICAL OBSERVATIONS AT SOIL BORING AND MONITORING WELL INSTALLATION LOGS, AS WELL AS MEASURED LPH IN WELLS.

- LIF - LASER INDUCED FLUORESCENCE
- NSZD - NATURAL SOURCE ZONE DEPLETION
- LPH - LIQUID PHASE HYDROCARBON
- ITRC - INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL
- DRO - DIESEL RANGE ORGANICS

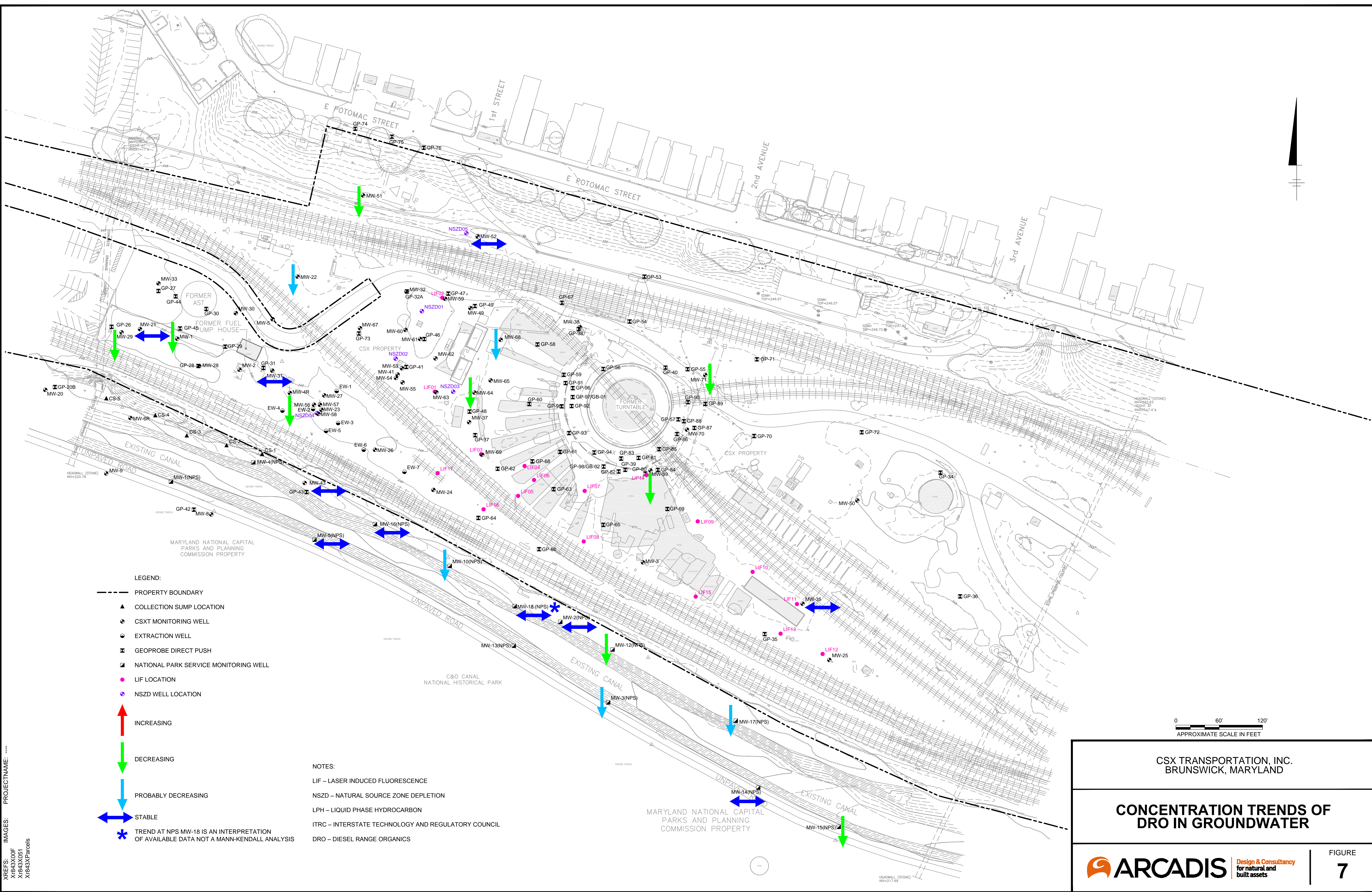
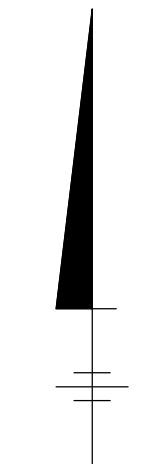
0 60' 120'
APPROXIMATE SCALE IN FEET

CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

MEASURED LPH IN WELLS
(2014 - 2016)



FIGURE
6

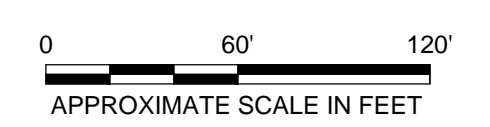


LEGEND:

- - - PROPERTY BOUNDARY
- ▲ COLLECTION SUMP LOCATION
- CSXT MONITORING WELL
- EXTRACTION WELL
- ⊠ GEOPROBE DIRECT PUSH
- ⊠ NATIONAL PARK SERVICE MONITORING WELL
- LIF LOCATION
- NSZD WELL LOCATION
- ↑ INCREASING
- ↓ DECREASING
- ↔ PROBABLY DECREASING
- ↔ STABLE
- * TREND AT NPS MW-18 IS AN INTERPRETATION OF AVAILABLE DATA NOT A MANN-KENDALL ANALYSIS

NOTES:

- LIF - LASER INDUCED FLUORESCENCE
- NSZD - NATURAL SOURCE ZONE DEPLETION
- LPH - LIQUID PHASE HYDROCARBON
- ITRC - INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL
- DRO - DIESEL RANGE ORGANICS



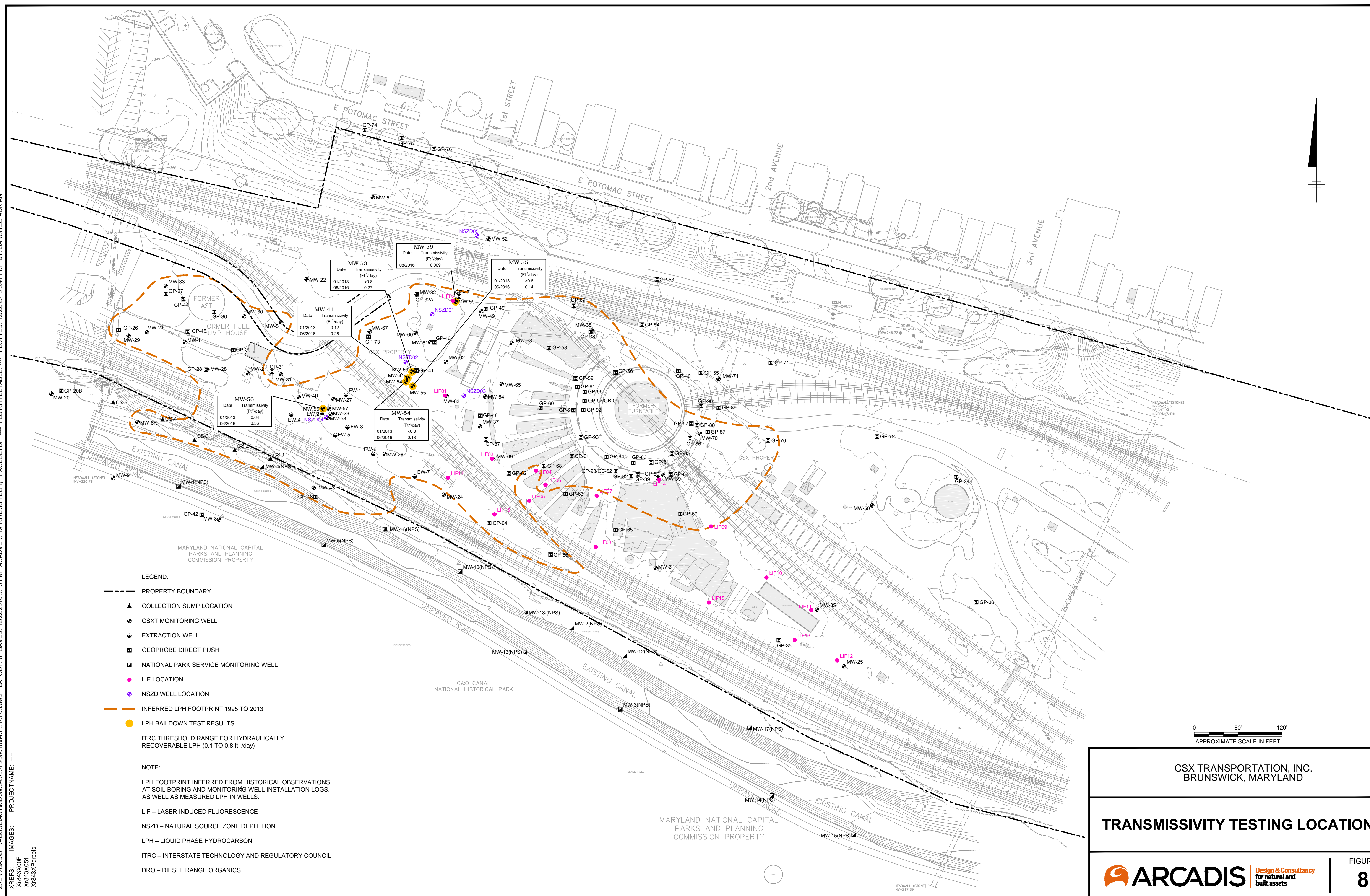
CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

CONCENTRATION TRENDS OF DRO IN GROUNDWATER

ARCADIS | Design & Consultancy for natural and built assets

FIGURE
7

CITY:SYRACUSE;ENV_DIV:GROUP:ENV_DBA.SANCHEZ.LDALS_PIC:(Op) PM:(Read) TM:(Op) LVR:(Op)ON="OFF"=REF Z:\ENVCAD\SYRACUSE\SELECT\MID\000843001\3000168431318F08.dwg LAYOUT: 8 SAVED: 12/22/2016 3:15 PM ACADVER: 19.1 (LMS TECH) PAGES: 8 PLOTSETUP: 19.1 (LMS TECH) PLOTTED: 12/22/2016 3:41 PM BY: SANCHEZ, ADRIAN



LEGEND:

- PROPERTY BOUNDARY
- ▲ COLLECTION SUMP LOCATION
- CSXT MONITORING WELL
- ◻ EXTRACTION WELL
- ◻ GEOPROBE DIRECT PUSH
- ◻ NATIONAL PARK SERVICE MONITORING WELL
- LIF LOCATION
- NSZD WELL LOCATION
- INFERRED LPH FOOTPRINT 1995 TO 2013
- LPH BAILODOWN TEST RESULTS

ITRC THRESHOLD RANGE FOR HYDRAULICALLY RECOVERABLE LPH (0.1 TO 0.8 ft /day)

NOTE:

LPH FOOTPRINT INFERRED FROM HISTORICAL OBSERVATIONS AT SOIL BORING AND MONITORING WELL INSTALLATION LOGS, AS WELL AS MEASURED LPH IN WELLS.

LIF – LASER INDUCED FLUORESCENCE
 NSZD – NATURAL SOURCE ZONE DEPLETION
 LPH – LIQUID PHASE HYDROCARBON
 ITRC – INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL
 DRO – DIESEL RANGE ORGANICS

CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

TRANSMISSIVITY TESTING LOCATIONS

ARCADIS Design & Consultancy
for natural and built assets

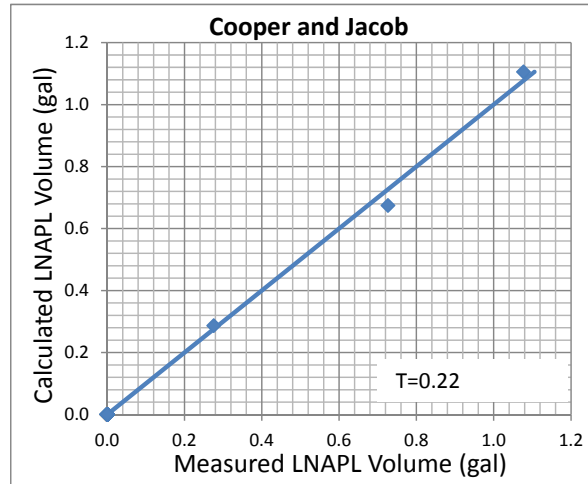
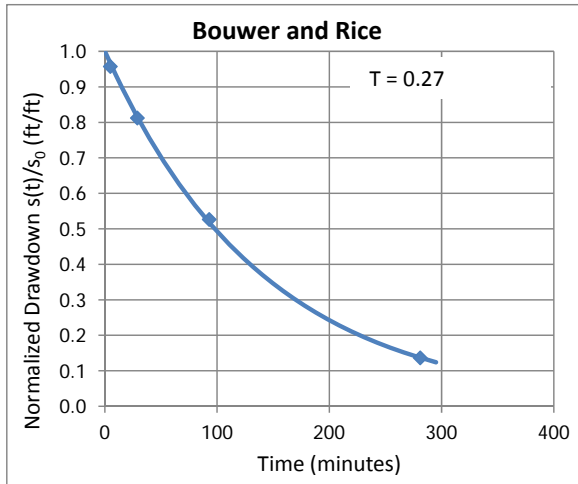
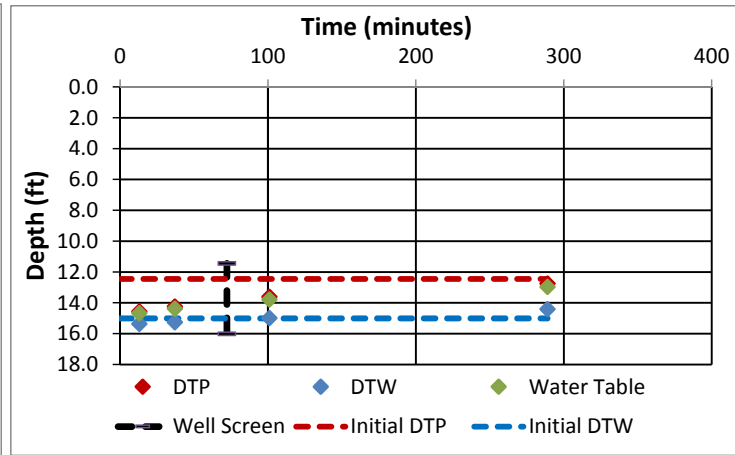
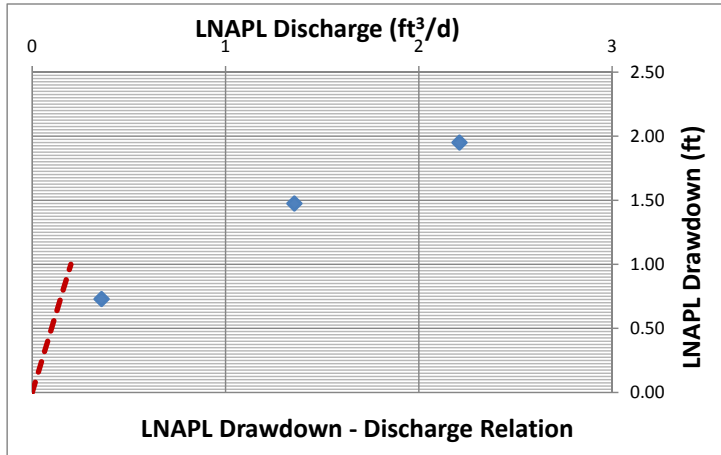
FIGURE
8

APPENDIX A

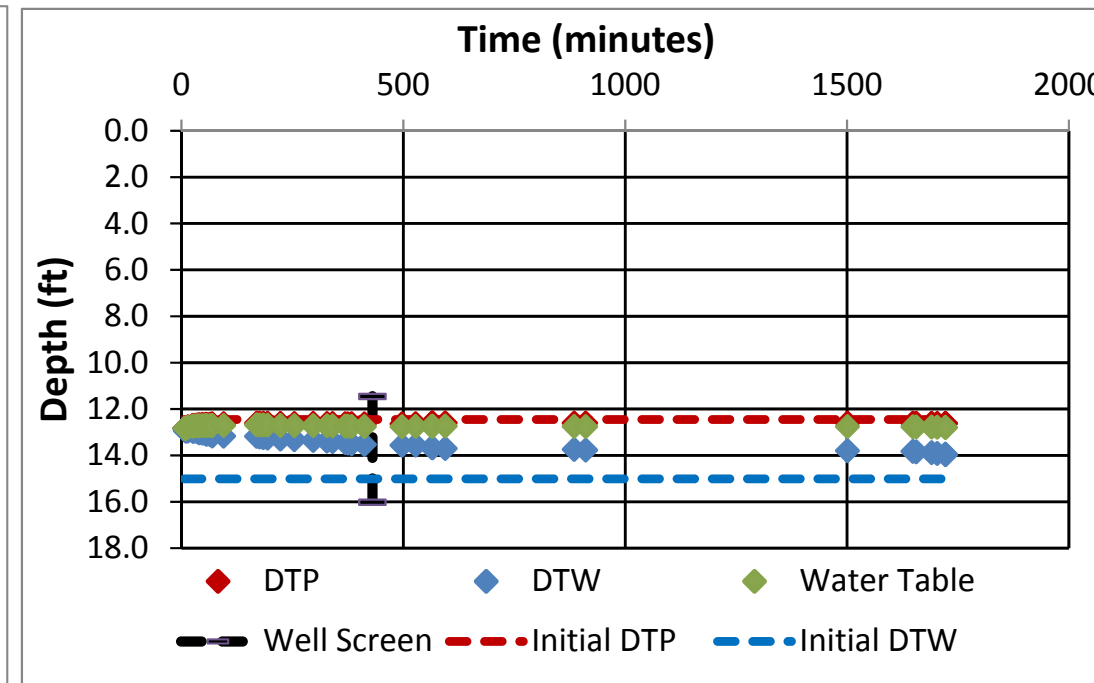
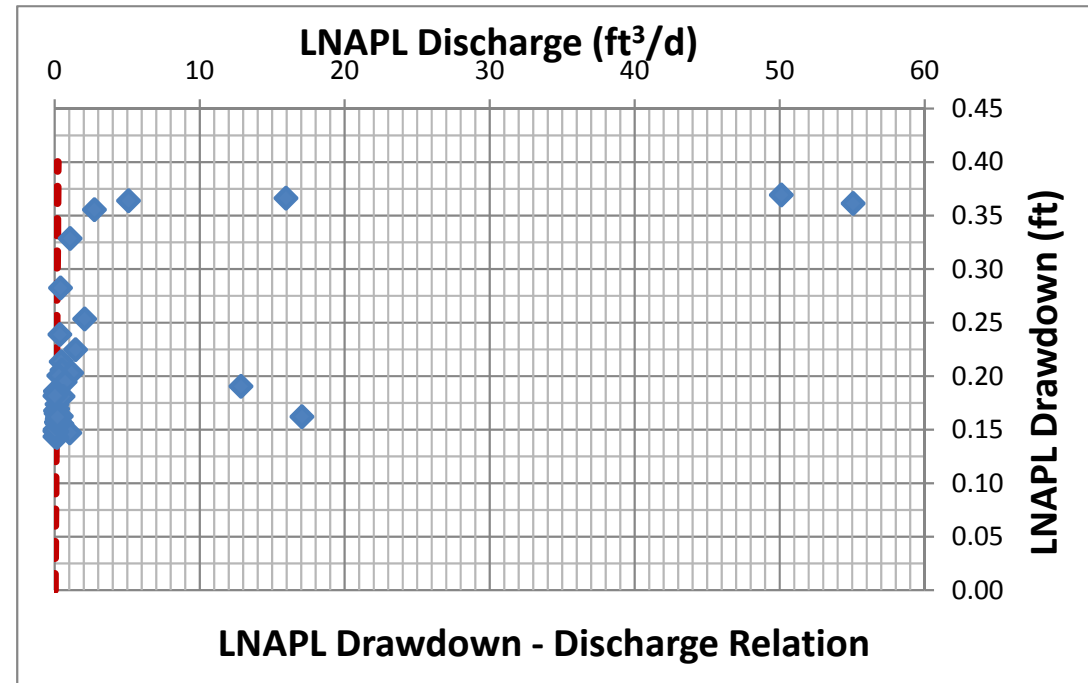
API Transmissivity Analysis Input and Output



MW-41 06/02/2016

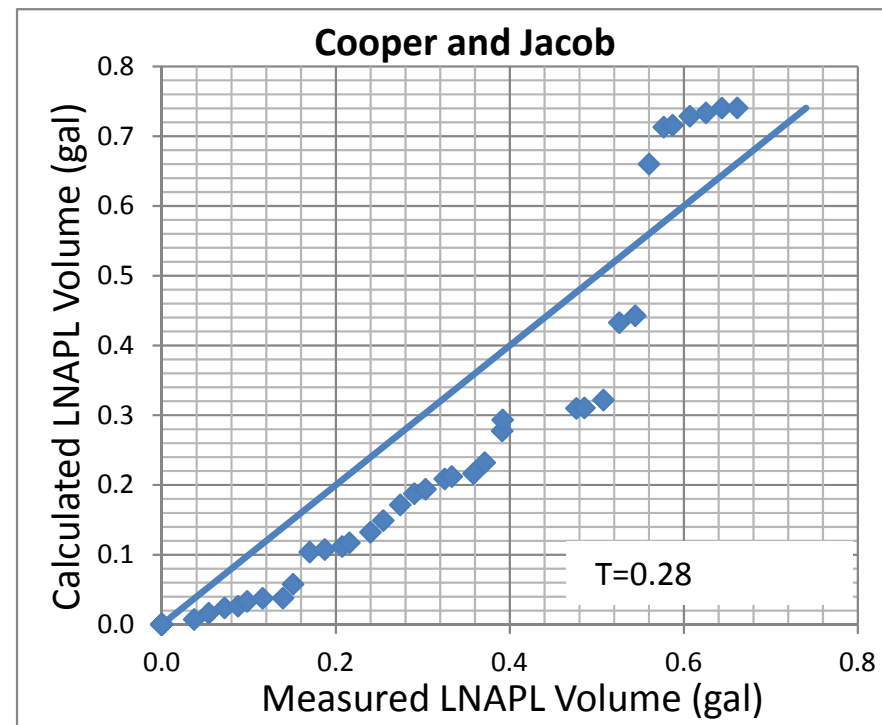


MW-53 01/00/1900

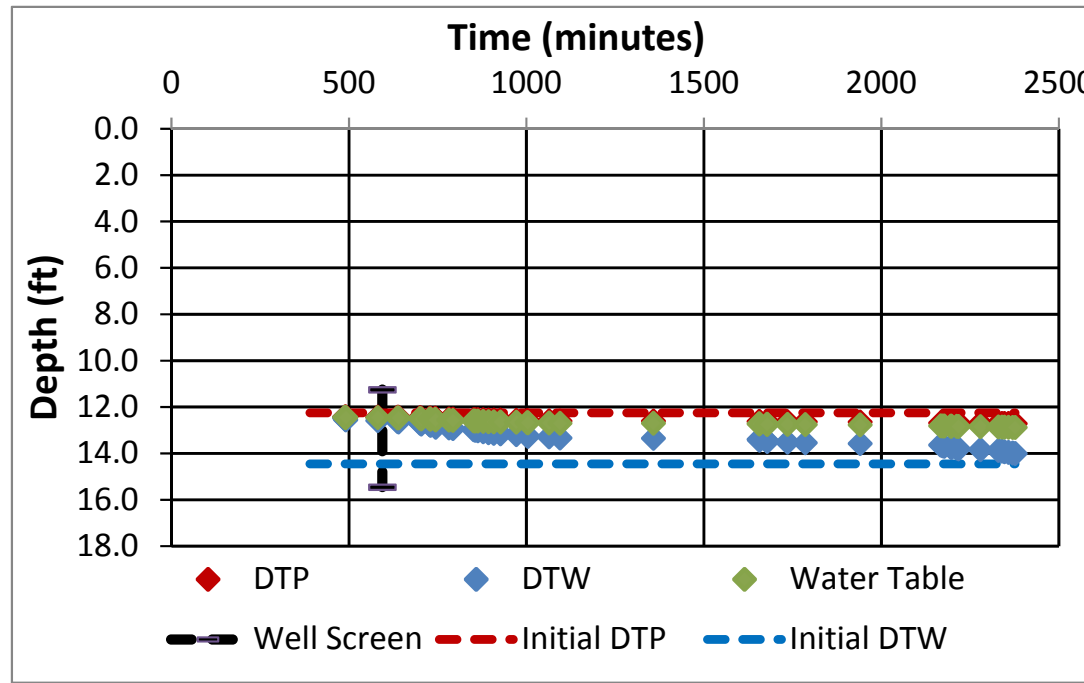
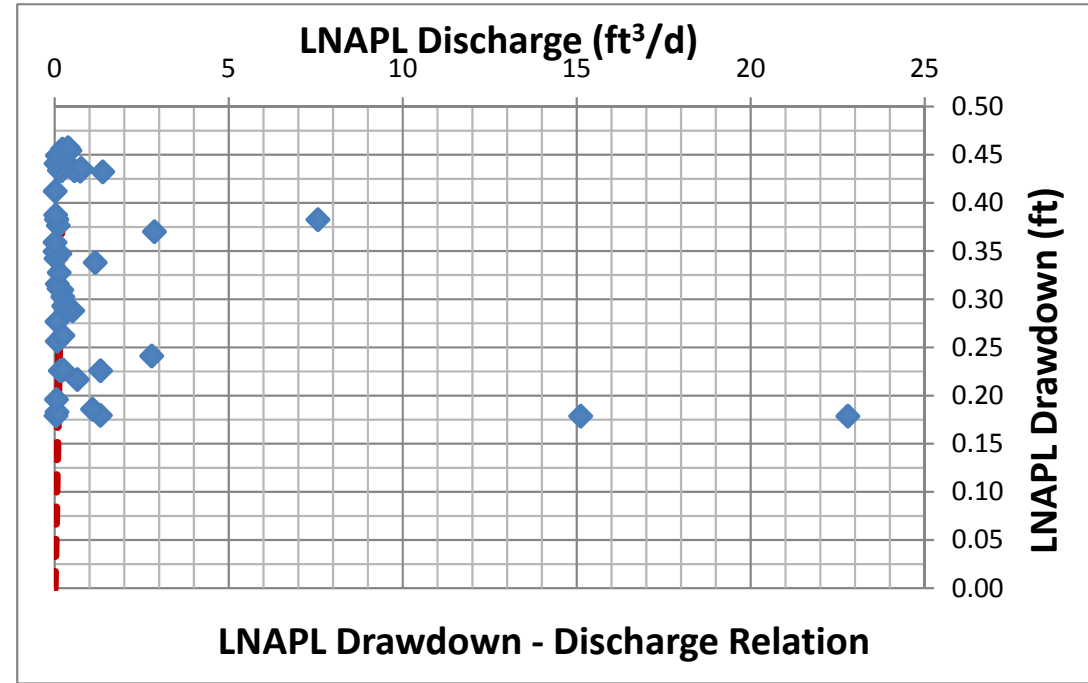


Abbreviations:

- d = day
- DTP = depth to product
- DTW = depth to water
- ft = feet
- LNAPL = light non-aqueous phase liquid
- s = drawdown
- T = LNAPL transmissivity

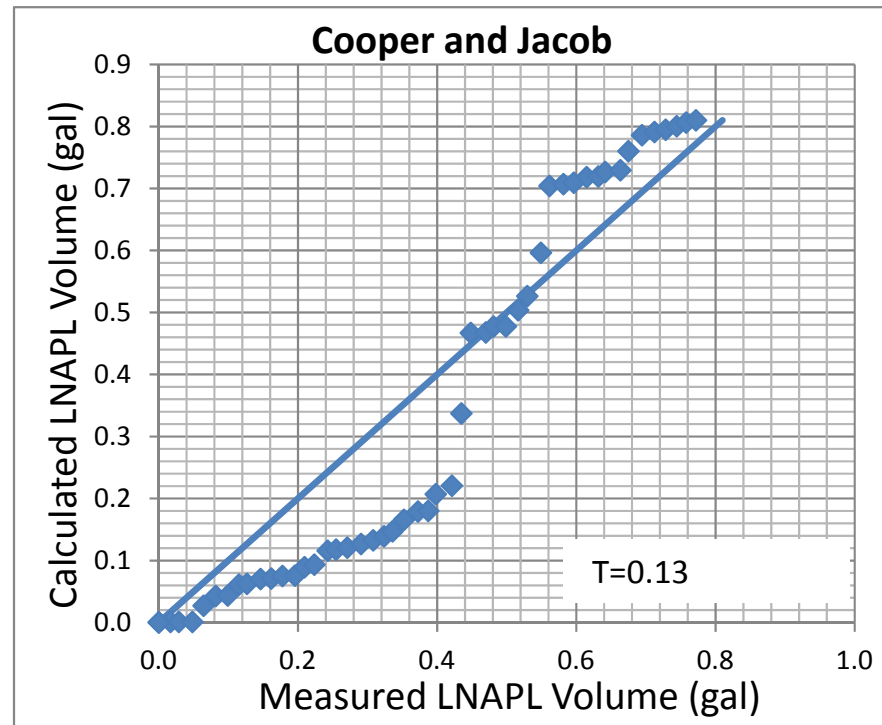


MW-54 01/00/1900



Abbreviations:

- d = day
- DTP = depth to product
- DTW = depth to water
- ft = feet
- LNAPL = light non-aqueous phase liquid
- s = drawdown
- T = LNAPL transmissivity



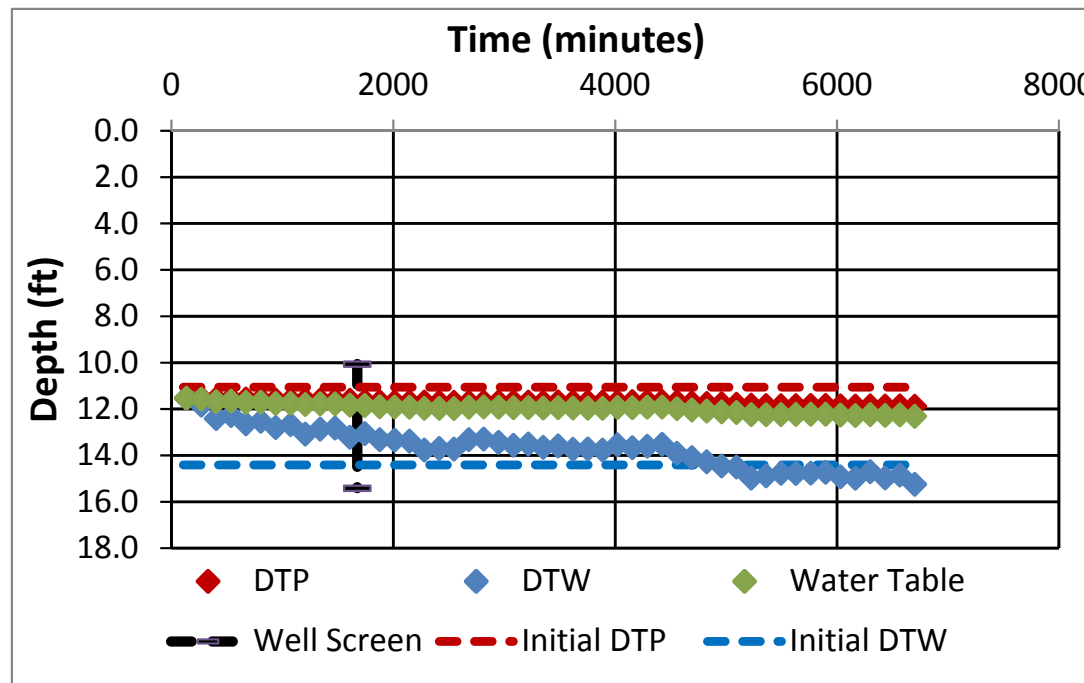
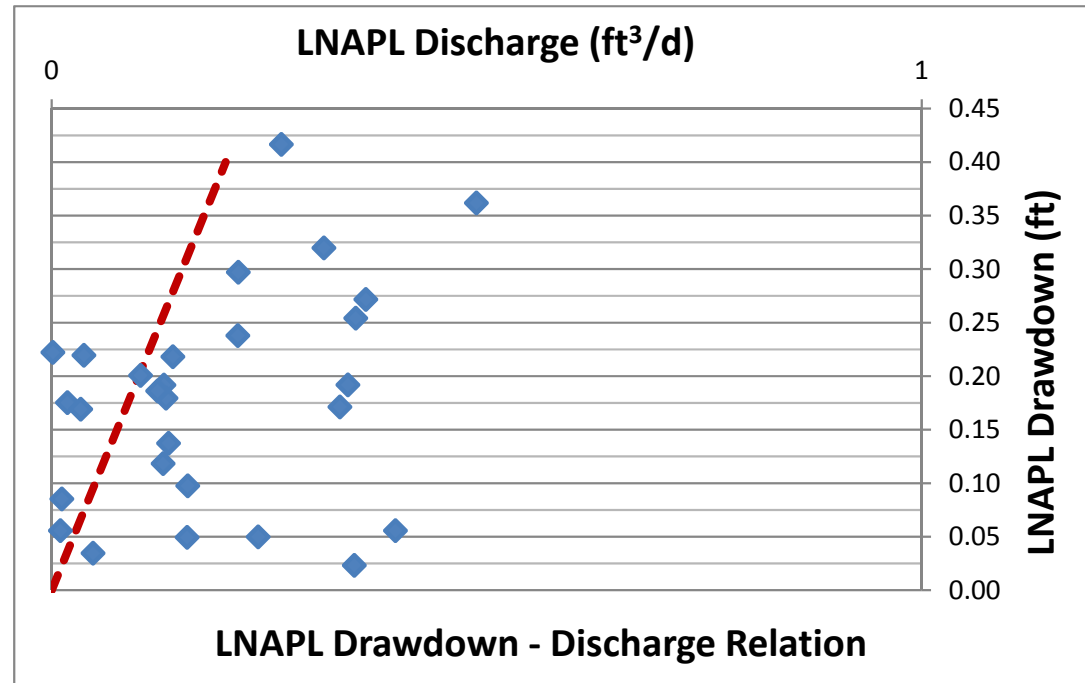
Well Designation:	MW-55
Date:	28-Jun-16

Ground Surface Elev (ft msl)	0.0	Enter These Data	Drawdown Adjustment (ft)
Top of Casing Elev (ft msl)	0.0		
Well Casing Radius, r_c (ft):	0.083		
Well Radius, r_w (ft):	0.344		
LNAPL Specific Yield, S_y :	0.175		
LNAPL Density Ratio, ρ_r :	0.870		
Top of Screen (ft bgs):	10.0		
Bottom of Screen (ft bgs):	20.0		
LNAPL Baildown Vol. (gal.):	0.00		
Effective Radius, r_{e3} (ft):	0.163		
Effective Radius, r_{e2} (ft):	0.155		
Initial Casing LNAPL Vol. (gal.):	0.55		
Initial Filter LNAPL Vol. (gal.):	1.53		

Enter Data Here				
Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)
Initial Fluid Levels:	0	11.06	14.41	11.06 14.41

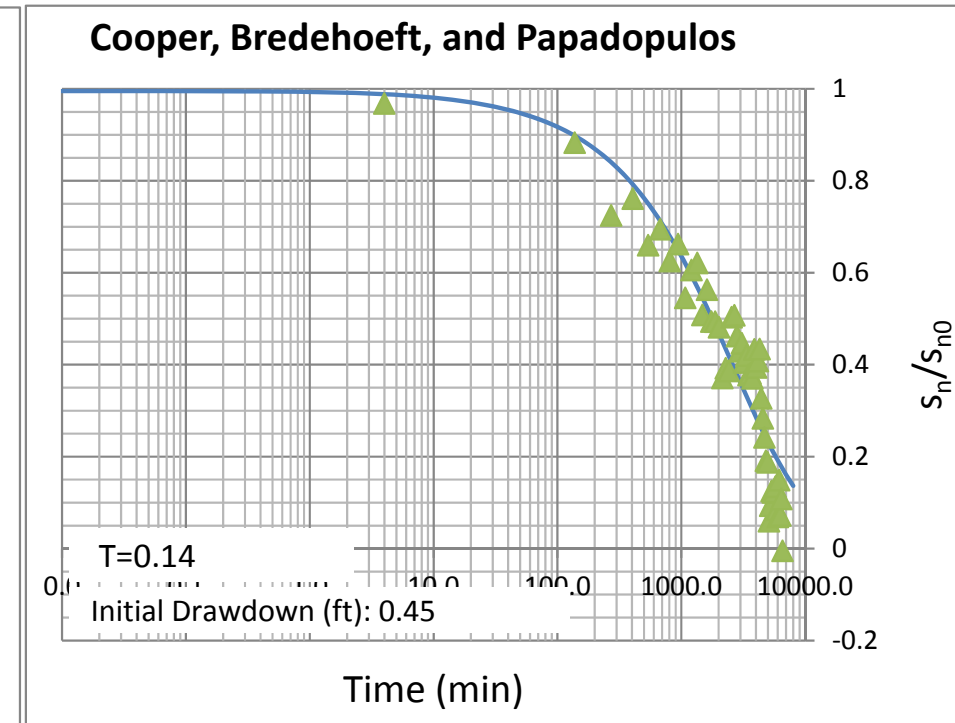
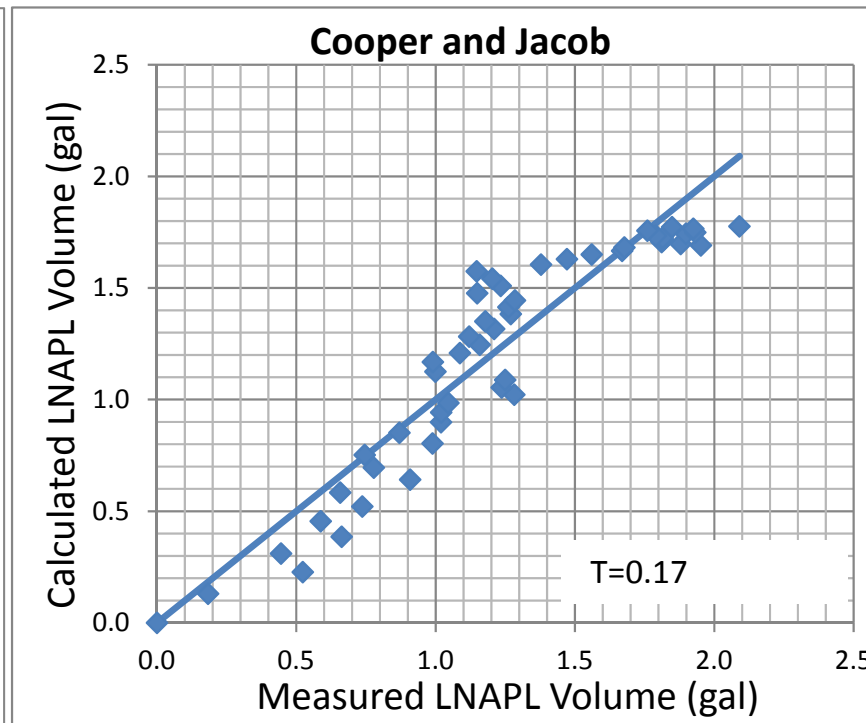
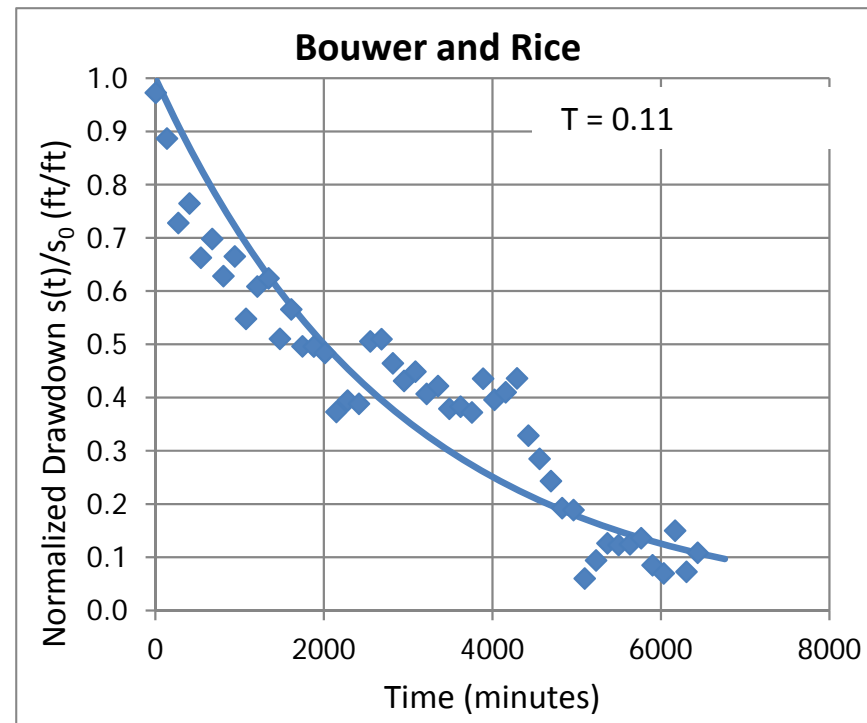
Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)
134	11.53077806	11.52826619	11.53	11.53
268	11.53636973	11.82976616	11.54	11.83
402	11.56409864	12.40497414	11.56	12.40
536	11.56121823	12.2759229	11.56	12.28
670	11.56795236	12.63357416	11.57	12.63
804	11.5825392	12.52718246	11.58	12.53
938	11.60457825	12.7895856	11.60	12.79
1072	11.61363246	12.67077731	11.61	12.67
1206	11.61262241	13.07467277	11.61	13.07
1340	11.61161337	12.86371858	11.61	12.86
1474	11.61464353	12.81393372	11.61	12.81
1608	11.62073127	13.21179658	11.62	13.21
1742	11.65830698	13.05841615	11.66	13.06
1876	11.68071996	13.32070919	11.68	13.32
2010	11.69620831	13.33747315	11.70	13.34
2144	11.69620831	13.37894115	11.70	13.38
2278	11.69840055	13.76300081	11.70	13.76
2412	11.70500481	13.69647409	11.71	13.70
2546	11.70943076	13.72108169	11.71	13.72
2680	11.70721547	13.31484739	11.71	13.31
2814	11.69840055	13.291701	11.70	13.29
2948	11.68639954	13.43581233	11.69	13.44
3082	11.69183752	13.55572223	11.69	13.56
3216	11.69730385	13.50079818	11.70	13.50
3350	11.70059737	13.6486163	11.70	13.65
3484	11.69183752	13.58841815	11.69	13.59
3618	11.68857134	13.73228801	11.69	13.73
3752	11.69074766	13.72091328	11.69	13.72
3886	11.69730385	13.76475797	11.70	13.76
4020	11.68748488	13.53700371	11.69	13.54
4154	11.67856443	13.66448637	11.68	13.66
4288	11.66359958	13.60115612	11.66	13.60
4422	11.66998667	13.51694375	11.67	13.52
4556	11.68857134	13.9069321	11.69	13.91
4690	11.72282077	14.09160696	11.72	14.09
4824	11.75733998	14.2696916	11.76	14.27
4958	11.76432037	14.45184814	11.76	14.45
5092	11.79539737	14.49586919	11.80	14.50
5226	11.82706922	14.97052583	11.83	14.97
5360	11.84985088	14.87627869	11.85	14.88
5494	11.85364041	14.76957689	11.85	14.77
5628	11.84733158	14.77431681	11.85	14.77
5762	11.84105792	14.76287218	11.84	14.76
5896	11.84356318	14.72616964	11.84	14.73
6030	11.85871299	14.91585595	11.86	14.92
6164	11.87149473	14.98183429	11.87	14.98
6298	11.86380841	14.69754216	11.86	14.70
6432	11.86892684	14.96871586	11.87	14.97
6566	11.86380841	14.84028779	11.86	14.84
6700	11.87406843	15.24053203	11.87	15.24

MW-55 06/28/2016

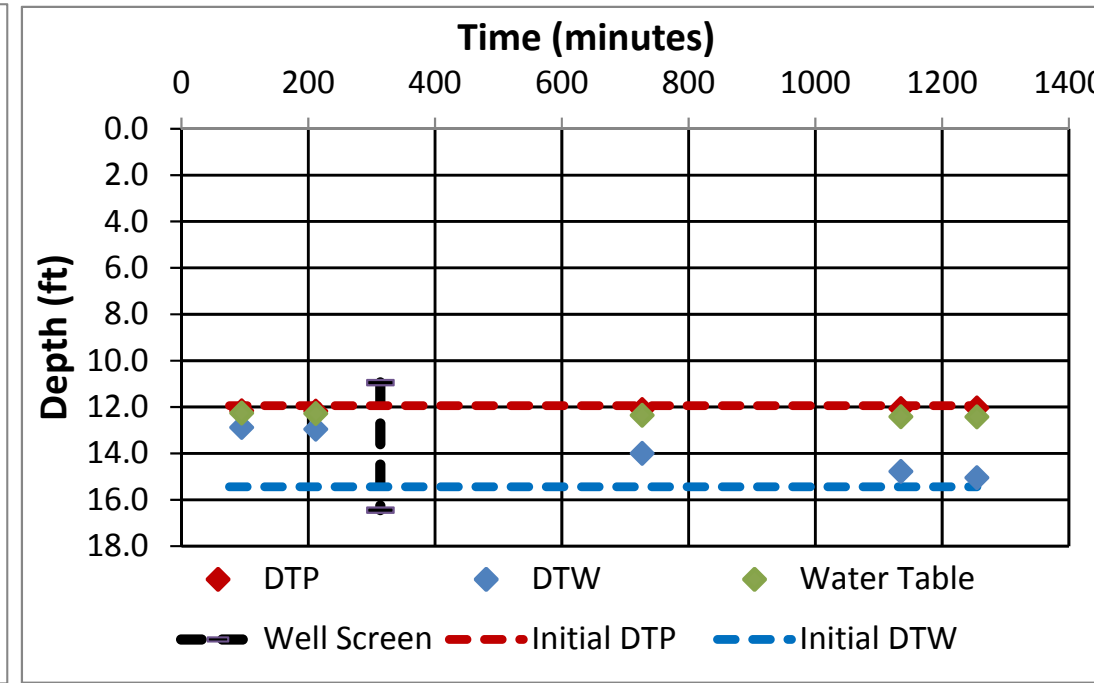
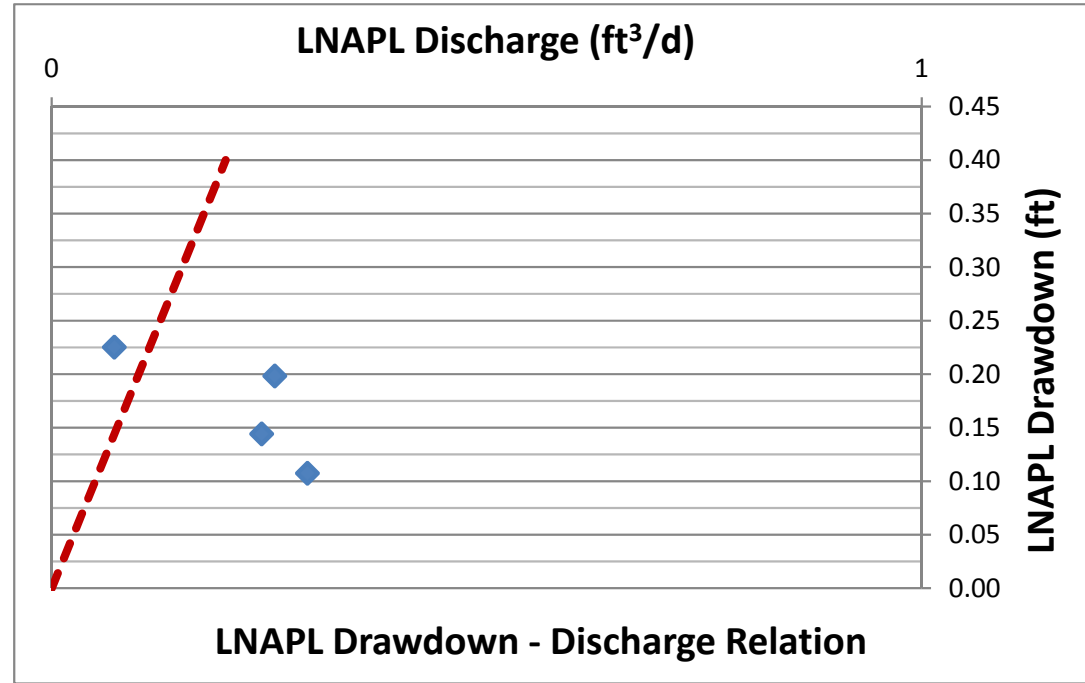


Abbreviations:

- d = day
- DTP = depth to product
- DTW = depth to water
- ft = feet
- LNAPL = light non-aqueous phase liquid
- s = drawdown
- T = LNAPL transmissivity

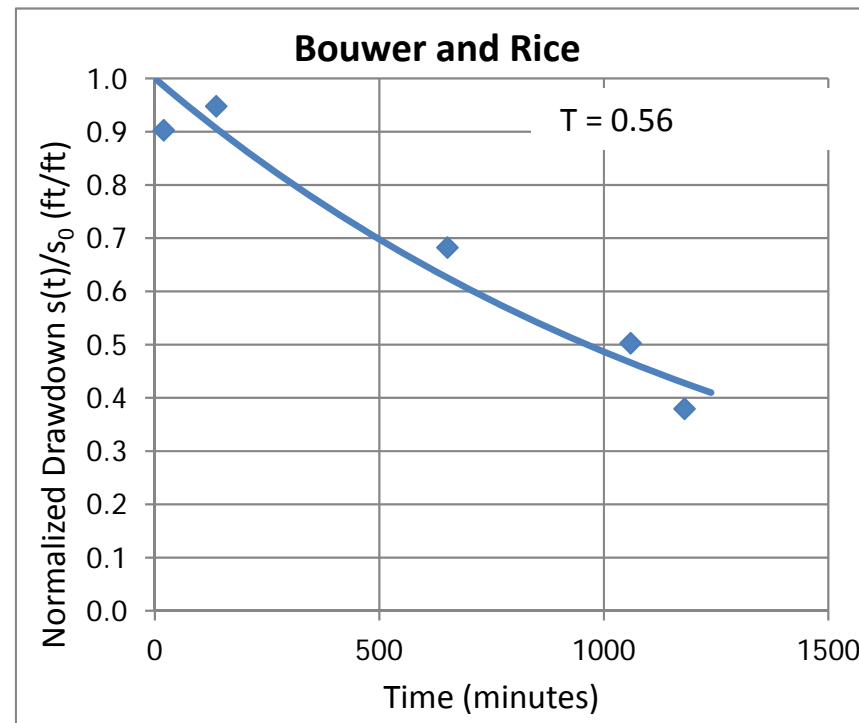


MW-56 01/00/1900



Abbreviations:

- d = day
- DTP = depth to product
- DTW = depth to water
- ft = feet
- LNAPL = light non-aqueous phase liquid
- s = drawdown
- T = LNAPL transmissivity



Thiem Equation Solution for Upper-Bound Estimation of LNAPL Transmissivity (Unconfined Conditions)

Well Designation:	MW-59
Date:	2-Jun-16
Initial LNAPL thickness in well, b_n (ft):	0.64
LNAPL-water density ratio, ρ_r :	0.87
Initial LNAPL thickness observed during test (ft):	0.01
Initial theoretical skimming drawdown, s_n (ft):	0.082
Final LNAPL thickness observed during test (ft):	0.05
Final theoretical skimming drawdown, s_n (ft):	0.077
Geometric mean of theoretical LNAPL drawdowns, s_n (ft):	0.079
Time between initial and final thickness observations (min):	1246
Well casing diameter (in):	2
Observed LNAPL recharge rate, Q_n (ft ³ /d):	1.01E-03
$\ln(R_{oi}/r_w)$ (assumption per ASTM E-2856):	4.6
LNAPL Transmissivity, T_n (ft²/d):	0.009

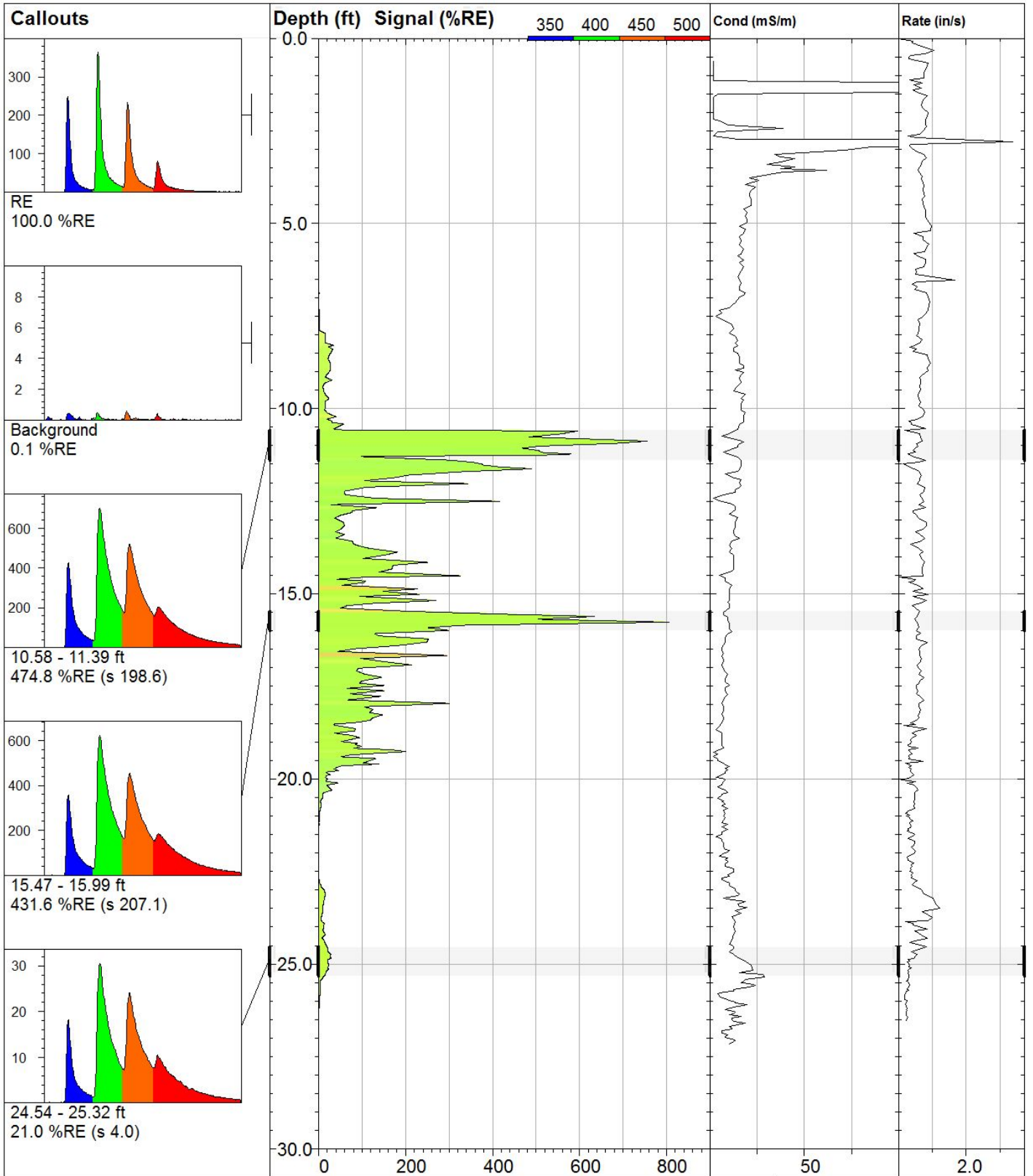
$$T_n = \frac{Q_n \ln\left(\frac{R_{oi}}{r_w}\right)}{2\pi s_n}$$

$$s_{n_unconfined} = b_n(1 - \rho_r)$$

APPENDIX B

LIF Boring Logs and HPT Reports





LIF01

UVOST® By Dakota
www.DakotaTechnologies.com

Site:
CSX Brunswick

Y Coord.(Lat-N) / System:
Unavailable / NA

Final depth:
26.53 ft

Client / Job:
Arcadis /

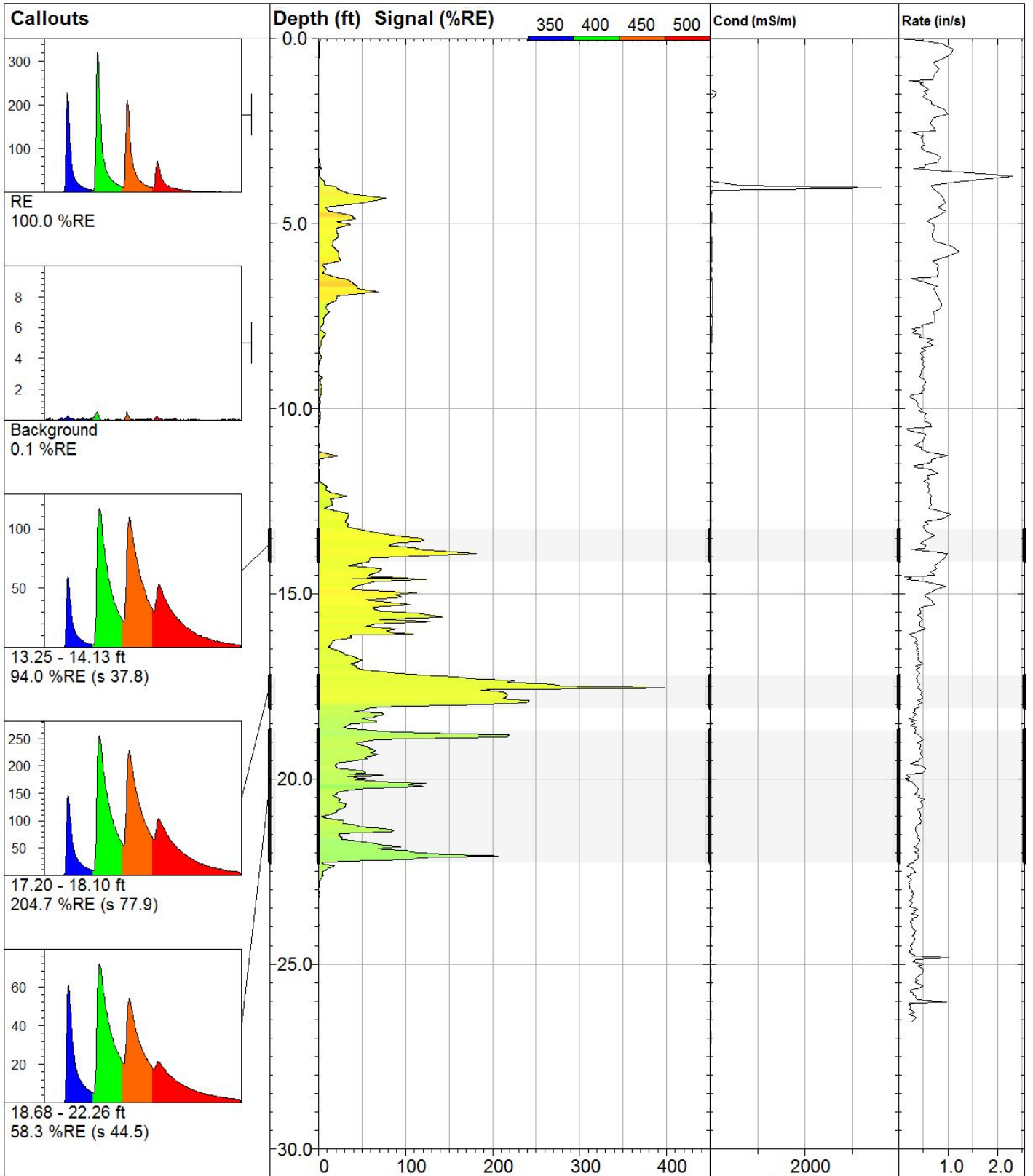
X Coord.(Lng-E) / Fix:
Unavailable / NA

Max signal:
806.6 %RE @ 15.77 ft

Operator / Unit:
Heicher / UVOST1015

Elevation:
Unavailable

Date & Time:
2016-05-10 08:13 EDT



LIF02

UVOST® By Dakota
www.DakotaTechnologies.com

Site:
CSX Brunswick

Y Coord.(Lat-N) / System:
Unavailable / NA

Final depth:
26.55 ft

Client / Job:
Arcadis /

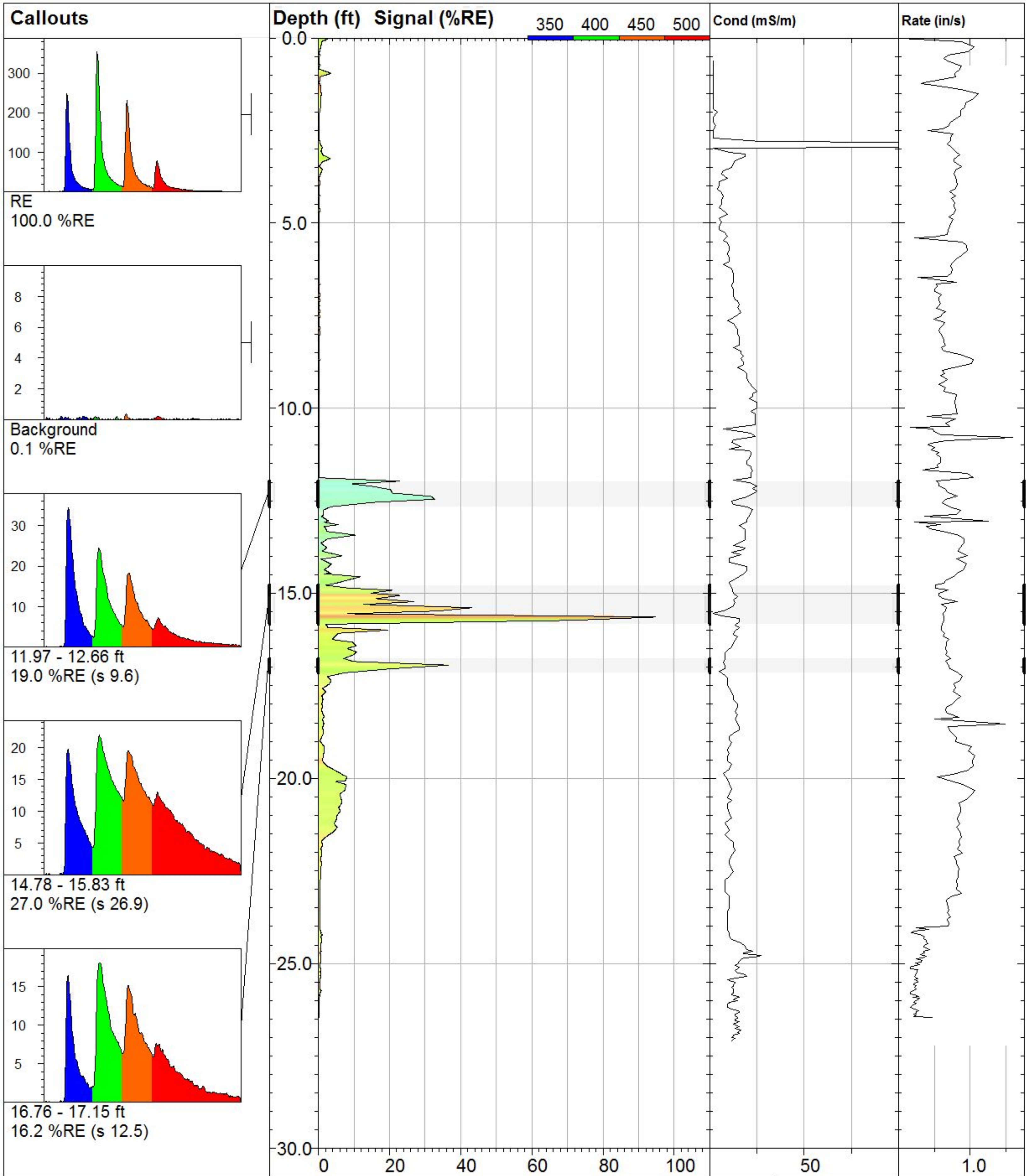
X Coord.(Lng-E) / Fix:
Unavailable / NA

Max signal:
404.3 %RE @ 17.54 ft

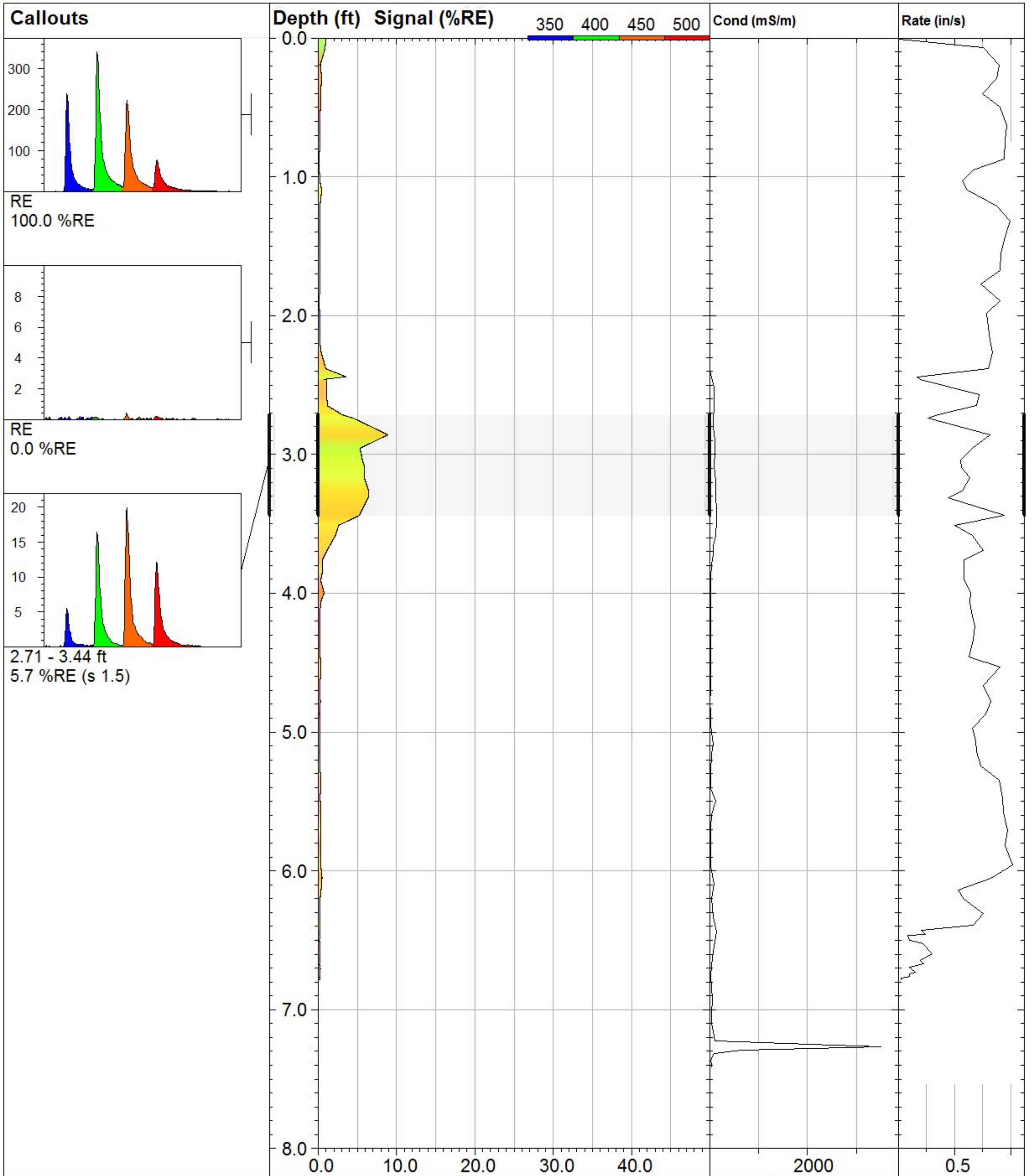
Operator / Unit:
Heicher / UVOST1015

Elevation:
Unavailable

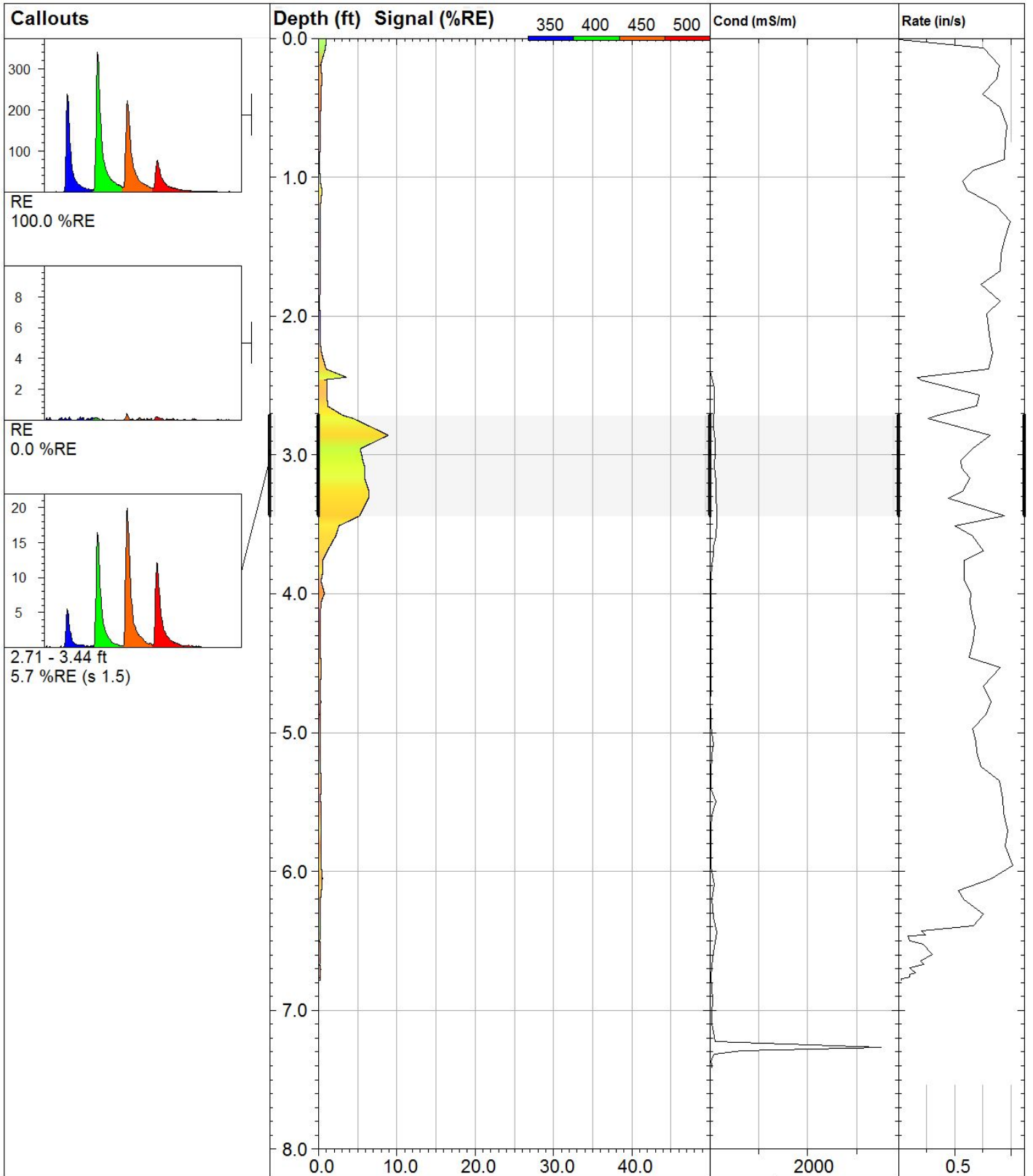
Date & Time:
2016-05-10 09:05 EDT



LIF03		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 26.47 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 95.3 %RE @ 15.64 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 09:58 EDT



LIF04		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 6.78 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 8.9 %RE @ 2.86 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 10:43 EDT



LIF04

UVOST® By Dakota
www.DakotaTechnologies.com

Site:
CSX Brunswick

Y Coord.(Lat-N) / System:
Unavailable / NA

Final depth:
6.78 ft

Client / Job:
Arcadis /

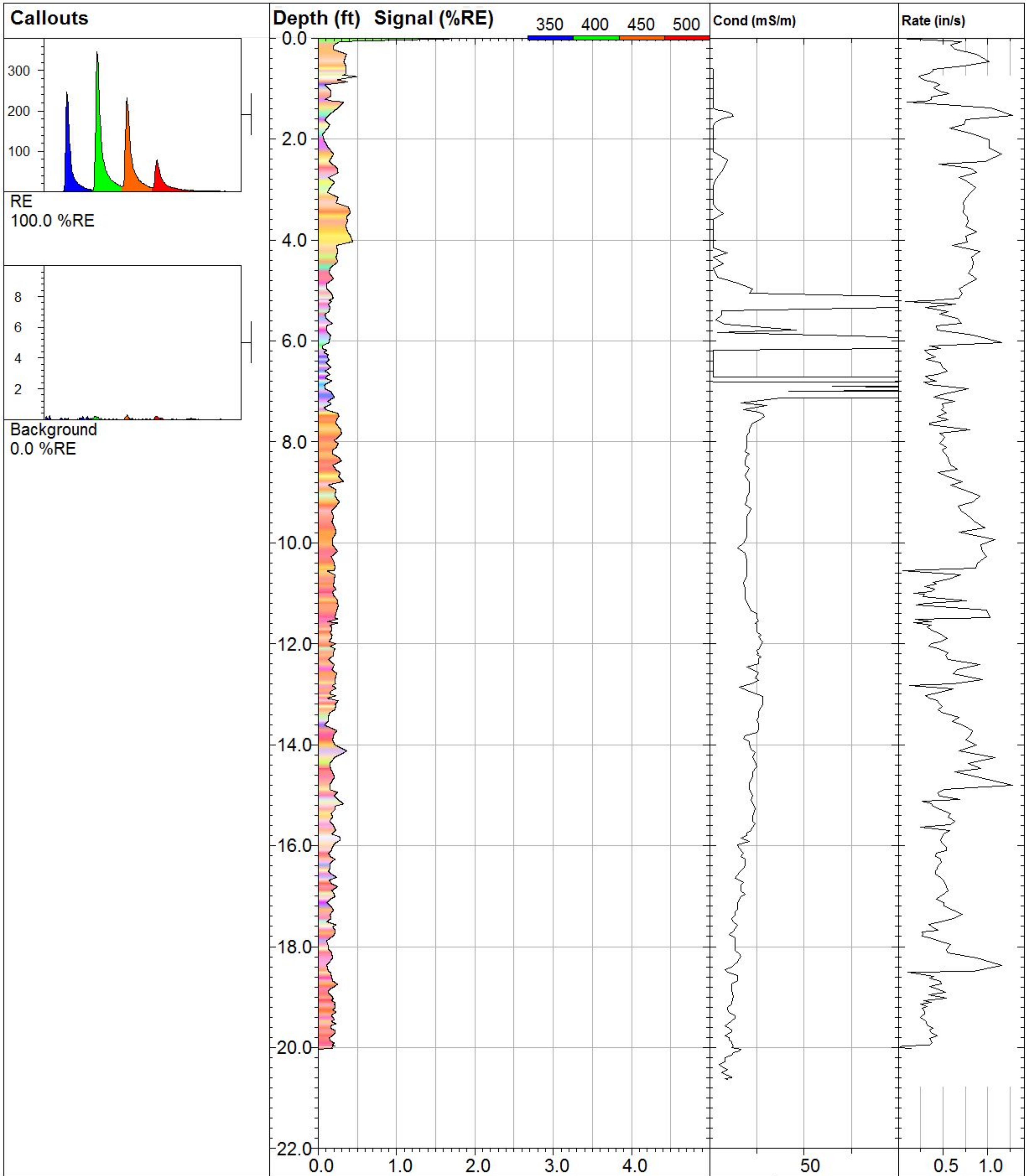
X Coord.(Lng-E) / Fix:
Unavailable / NA

Max signal:
8.9 %RE @ 2.86 ft

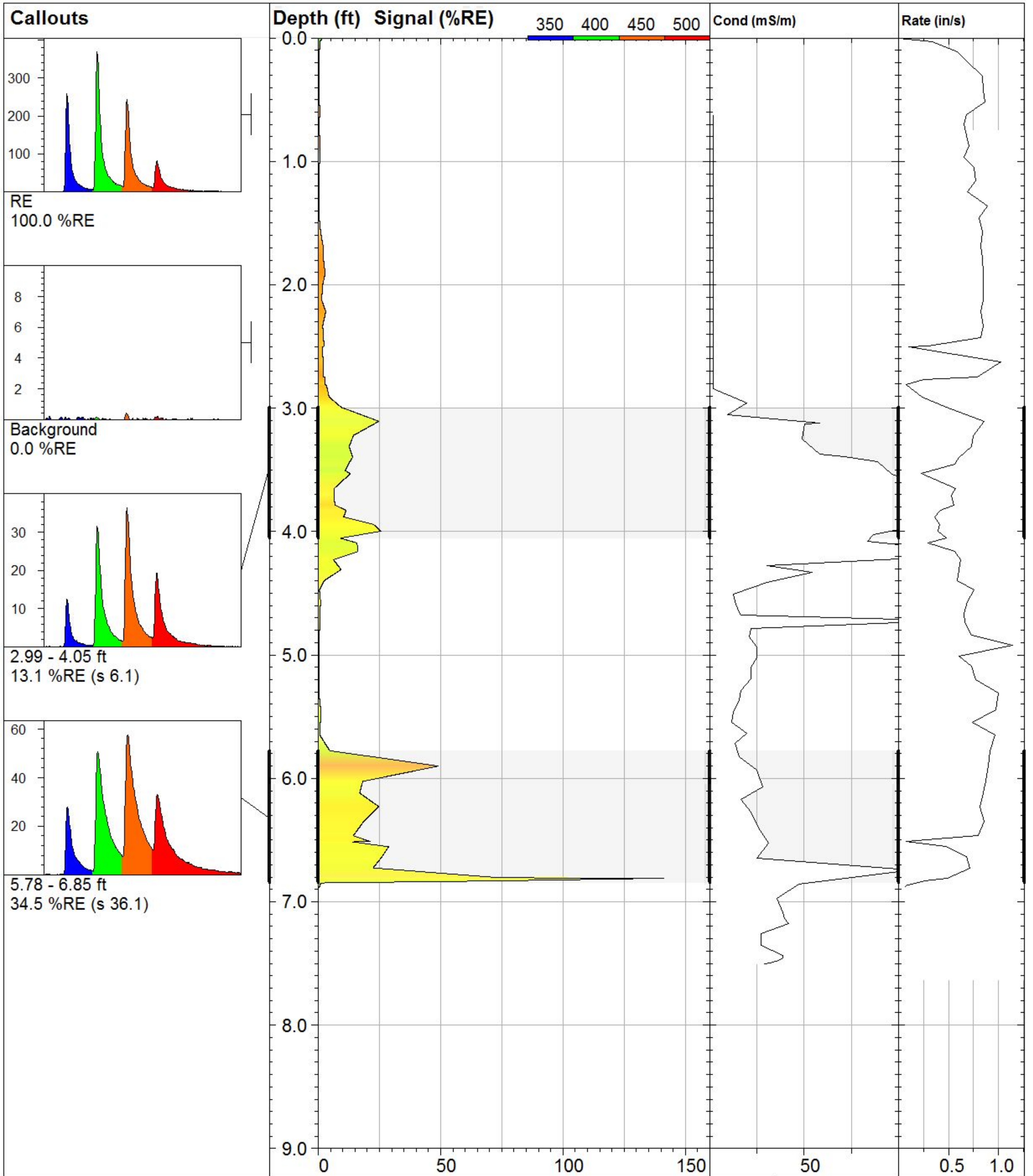
Operator / Unit:
Heicher / UVOST1015

Elevation:
Unavailable

Date & Time:
2016-05-10 10:43 EDT



LIF05		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.03 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 2.1 %RE @ 0.00 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 11:18 EDT



LIF06

UVOST® By Dakota
www.DakotaTechnologies.com

Site:
CSX Brunswick

Y Coord.(Lat-N) / System:
Unavailable / NA

Final depth:
6.88 ft

Client / Job:
Arcadis /

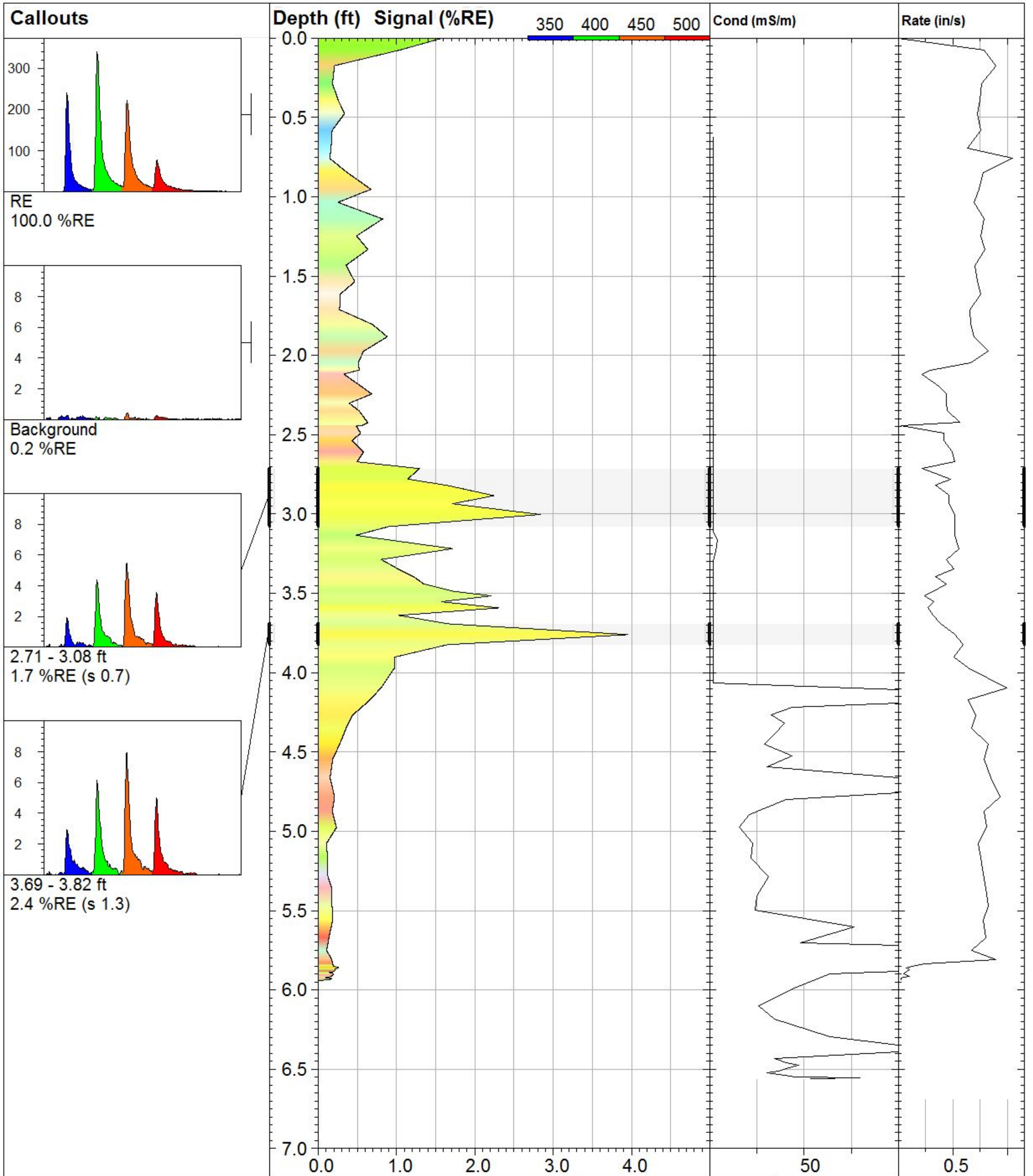
X Coord.(Lng-E) / Fix:
Unavailable / NA

Max signal:
144.3 %RE @ 6.81 ft

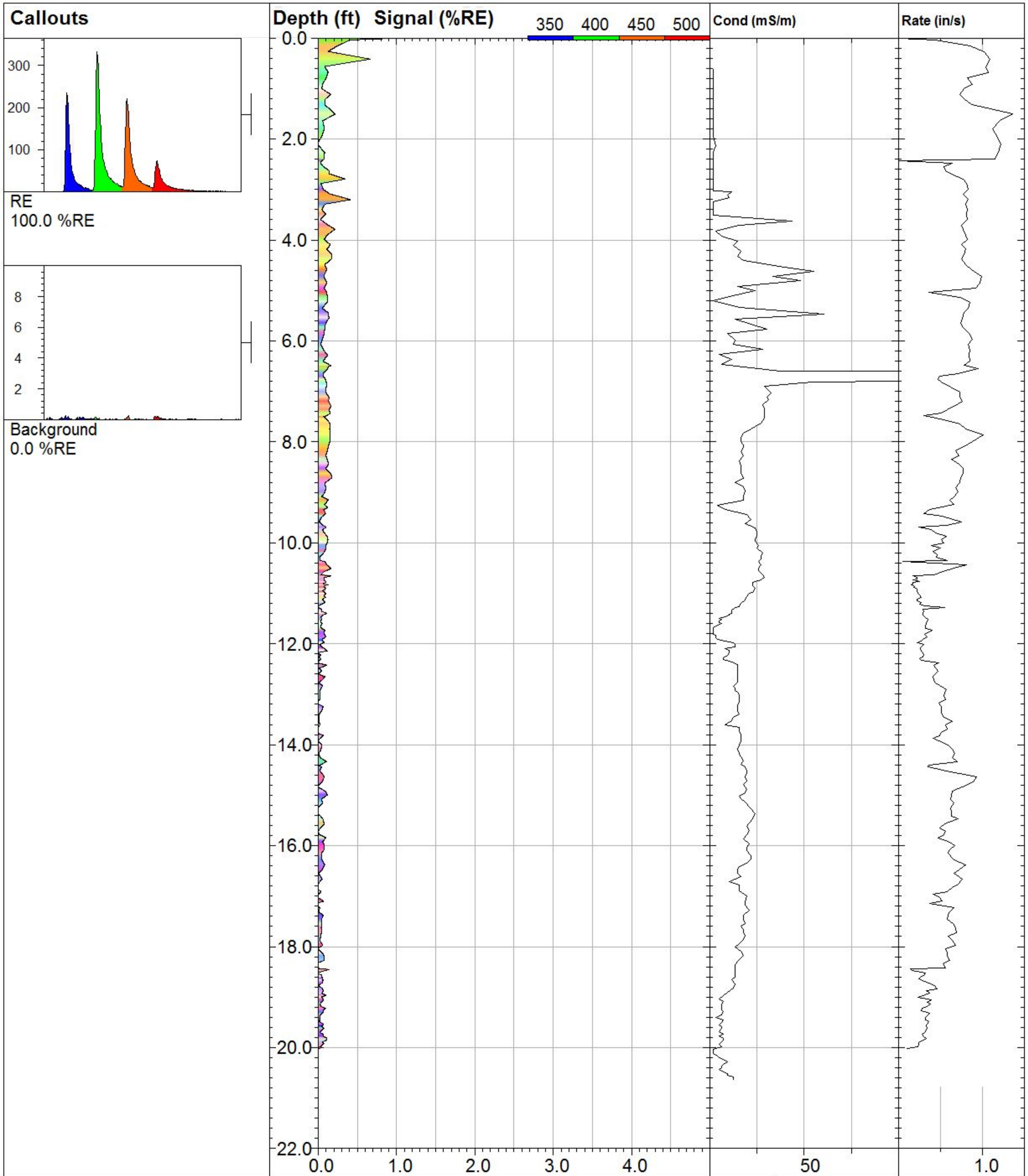
Operator / Unit:
Heicher / UVOST1015

Elevation:
Unavailable

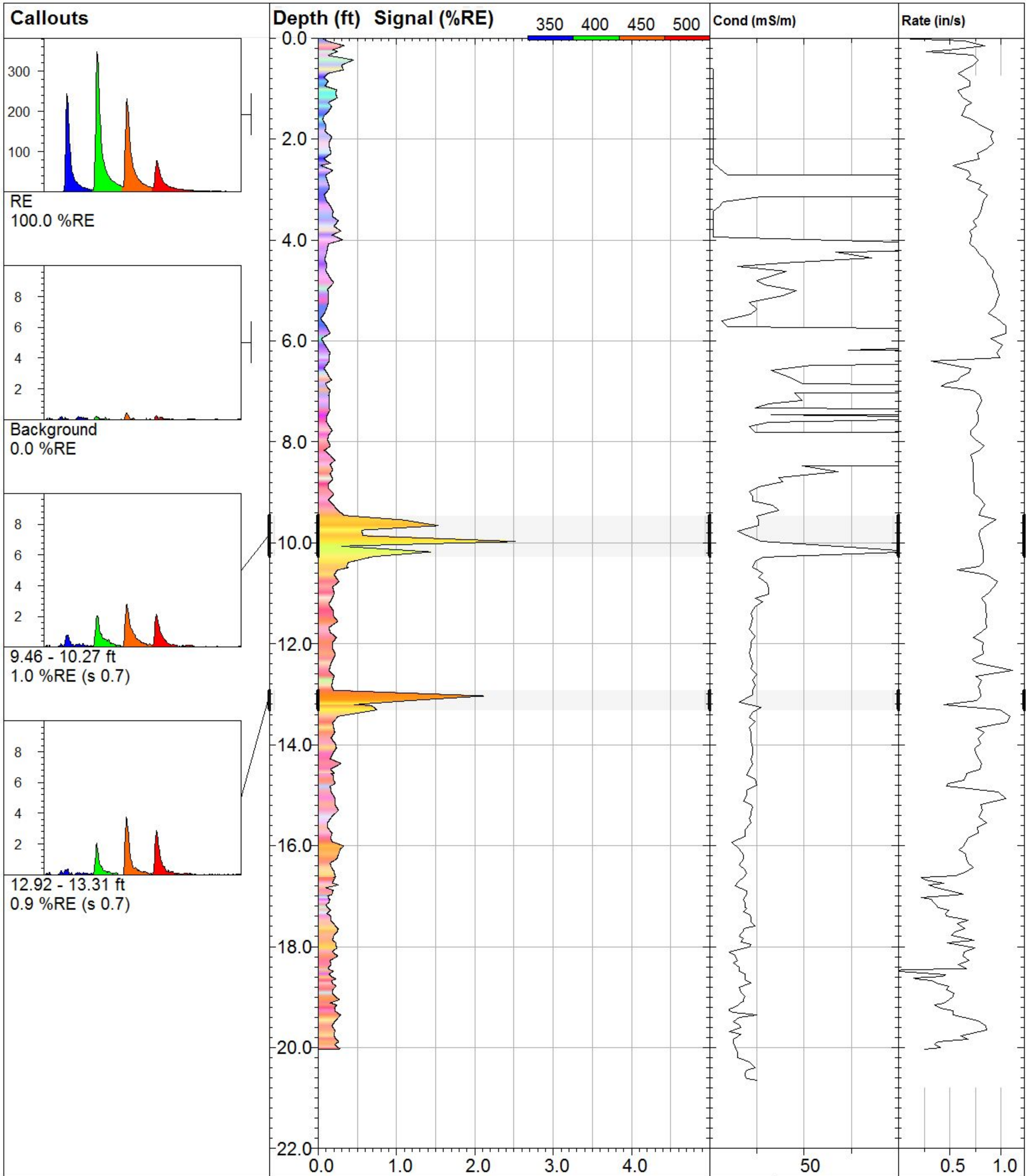
Date & Time:
2016-05-10 12:08 EDT



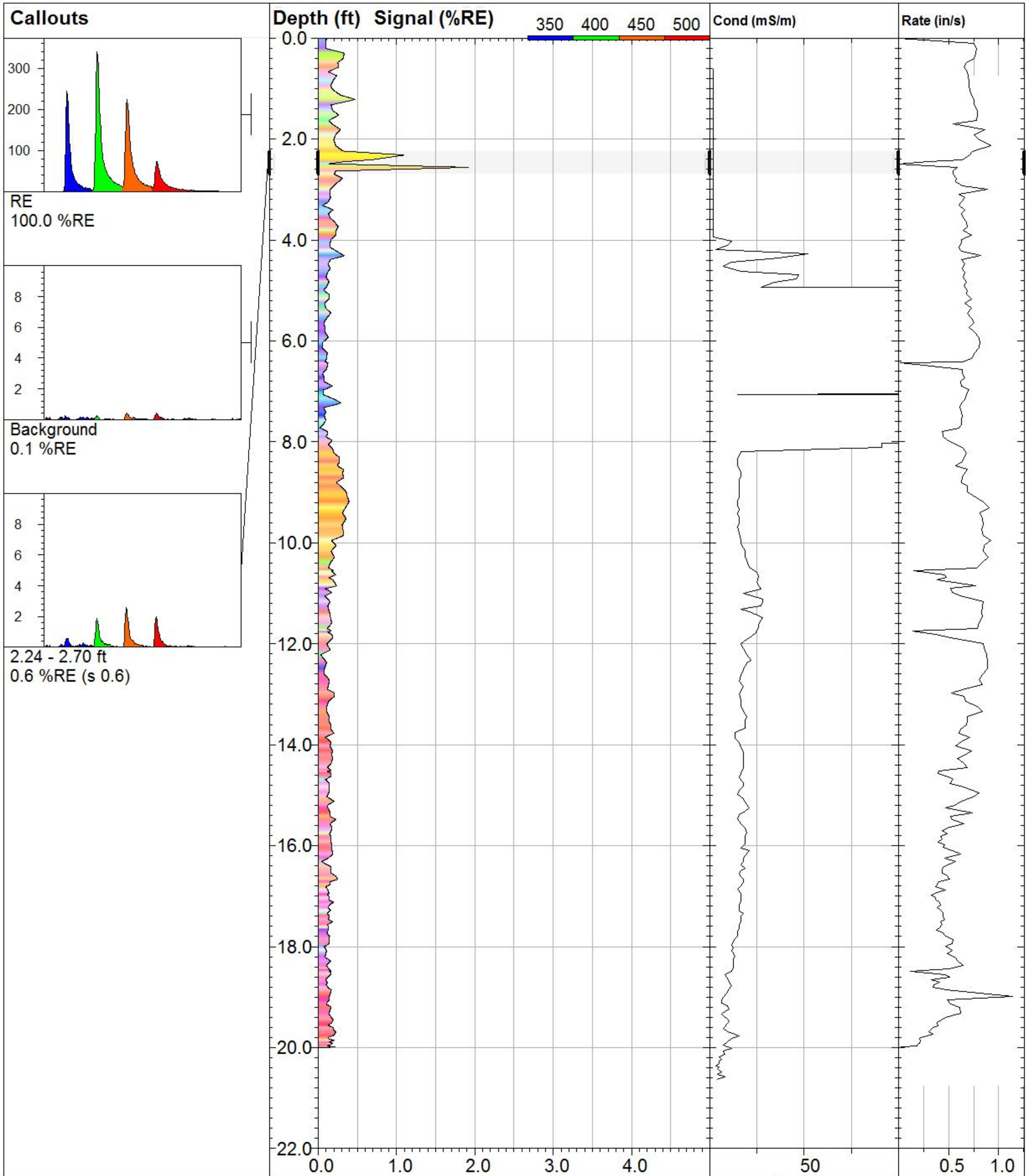
LIF07		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 5.94 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 4.0 %RE @ 3.76 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 12:33 EDT



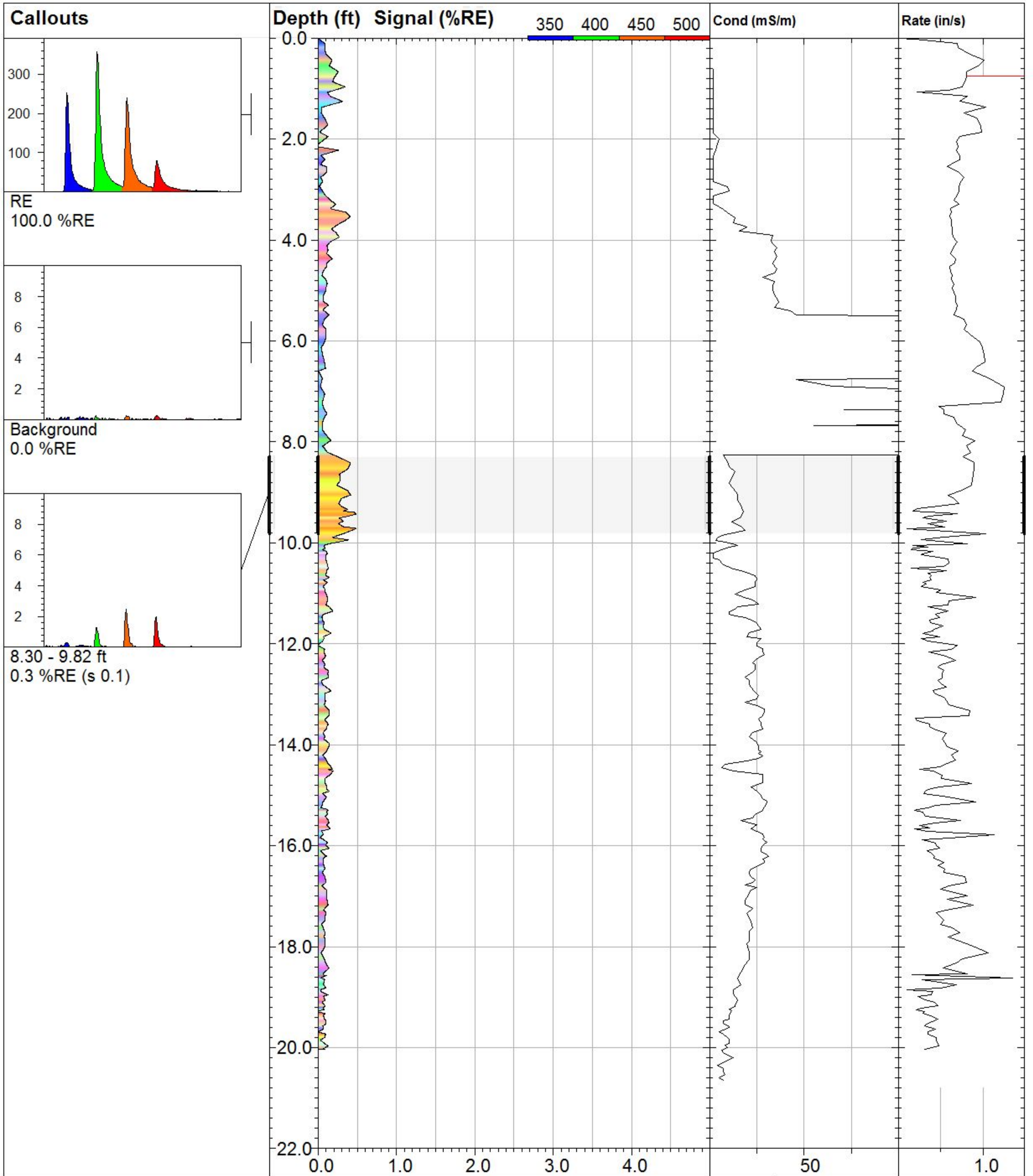
LIF08		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.01 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 1.1 %RE @ 0.00 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 13:00 EDT



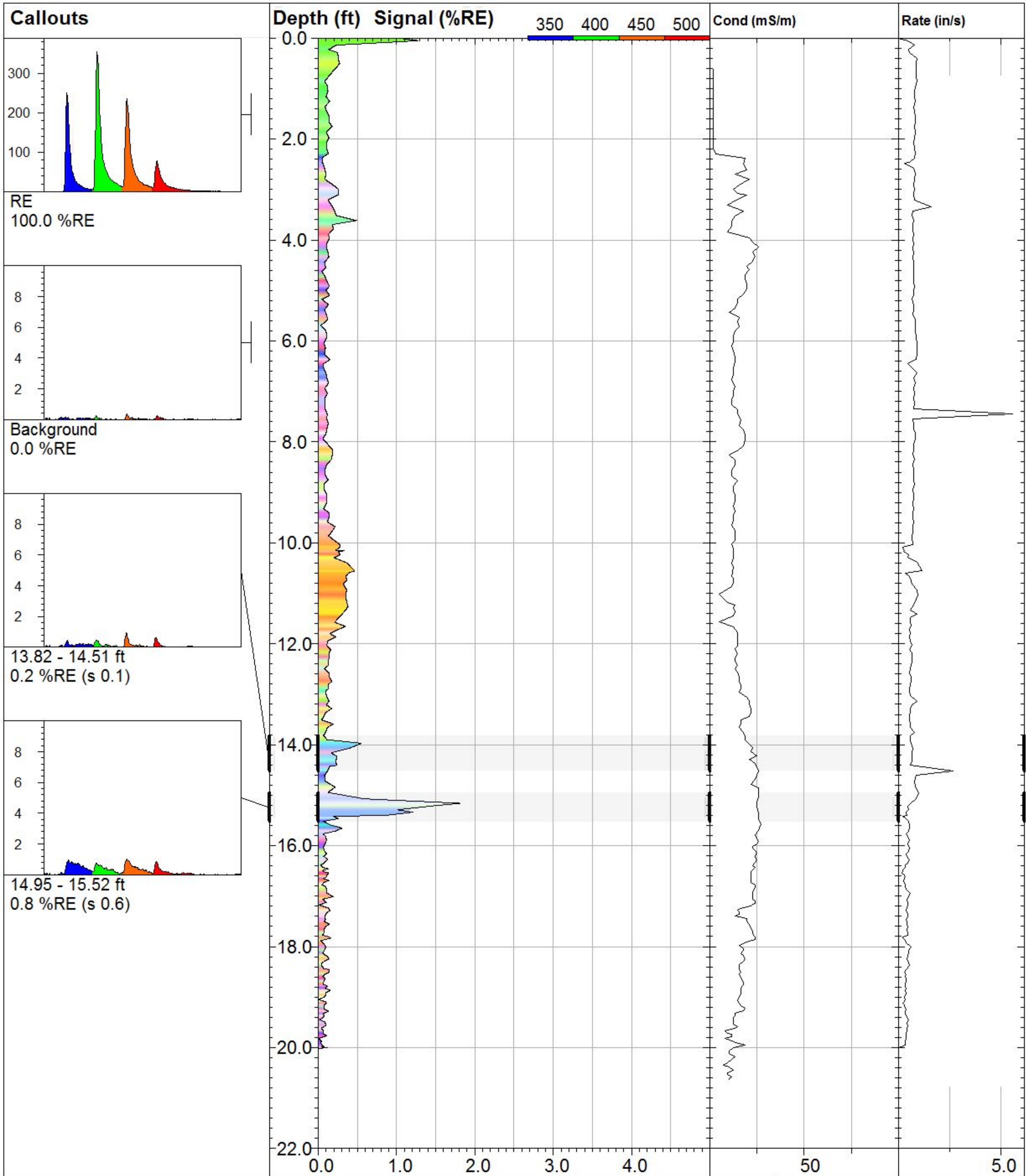
LIF09		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.03 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 2.5 %RE @ 9.97 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 13:45 EDT



LIF10		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.00 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 1.9 %RE @ 2.56 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 14:21 EDT

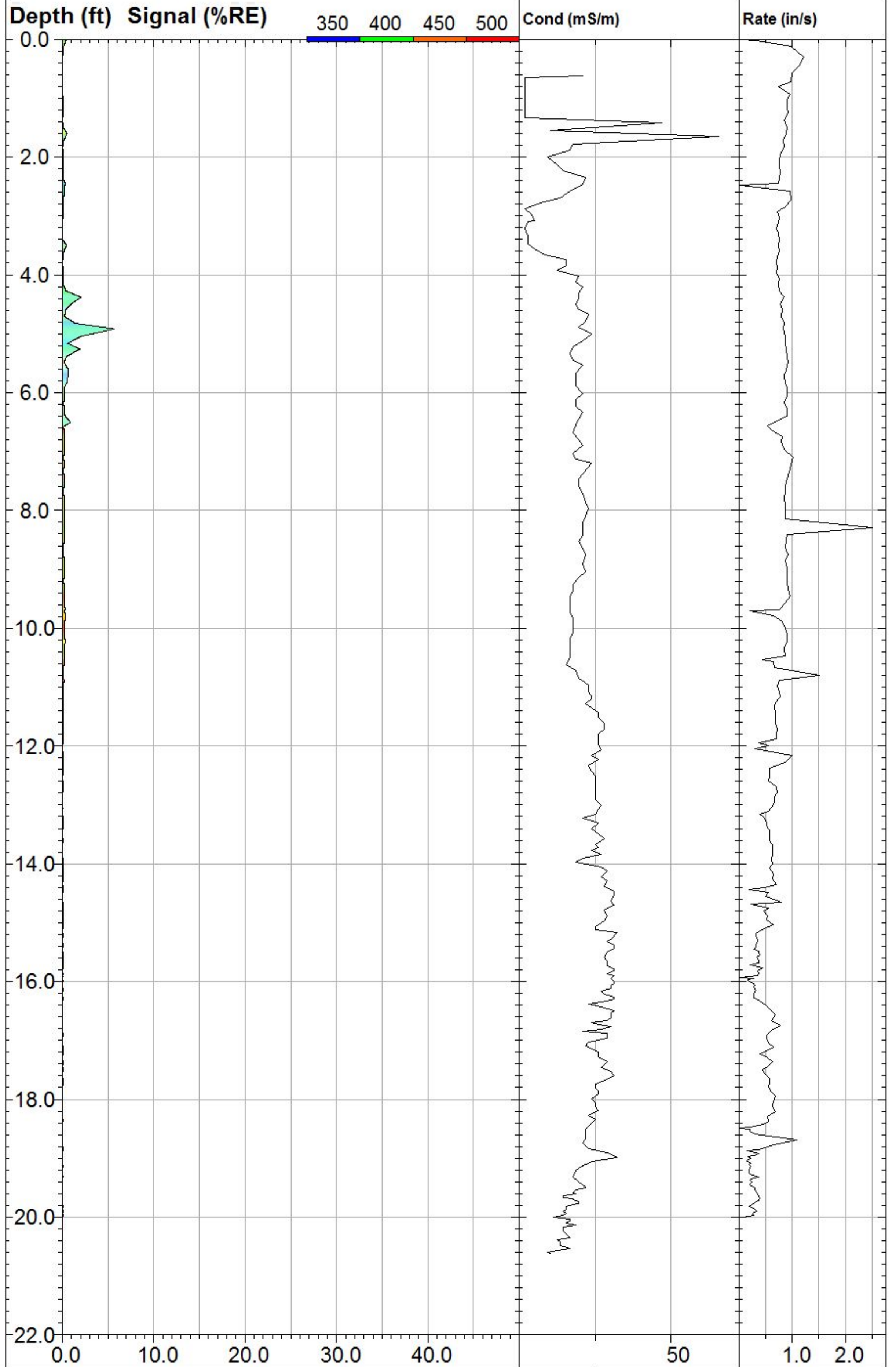


LIF11		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.03 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 0.5 %RE @ 9.71 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 14:57 EDT

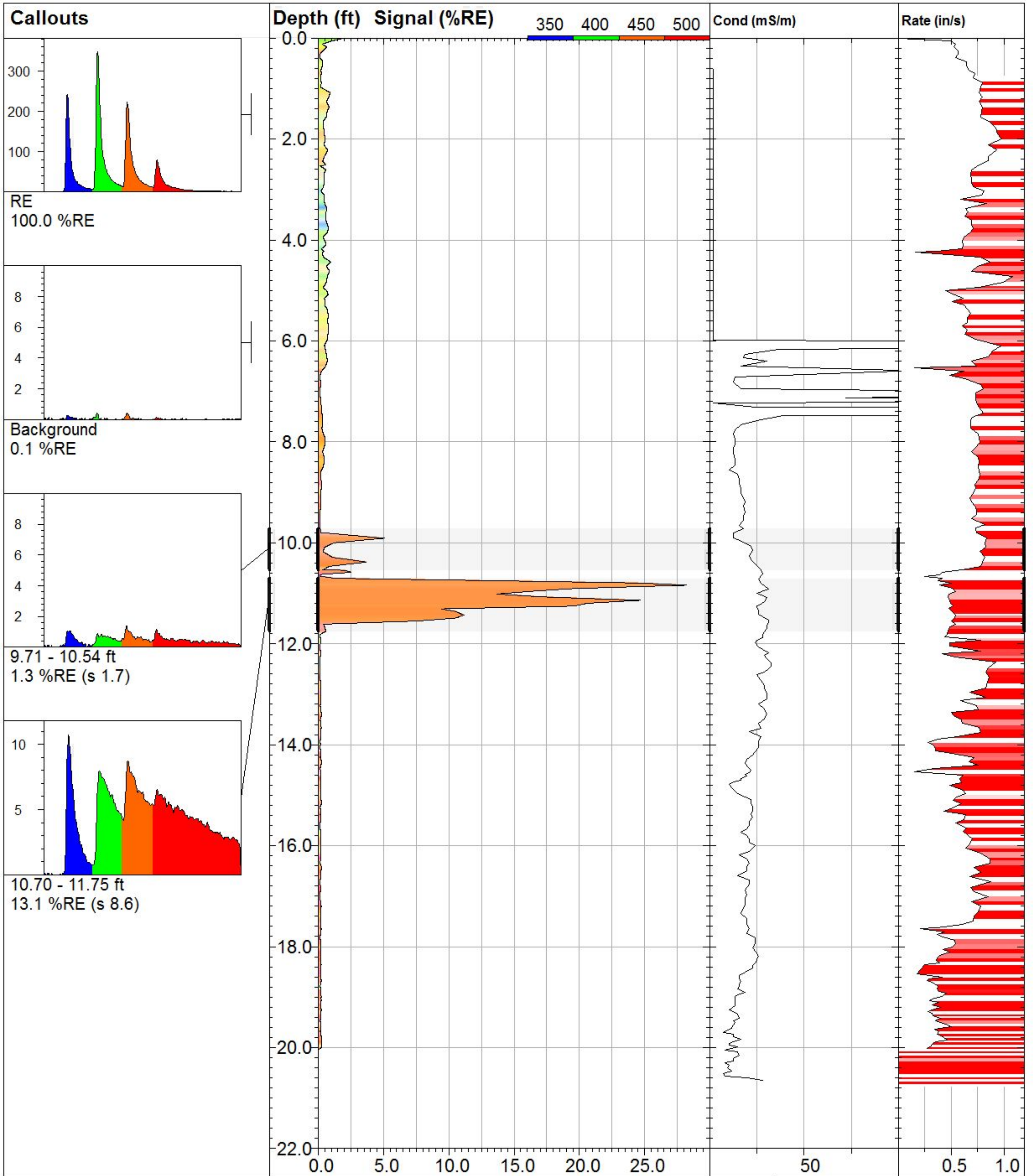


LIF12		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.01 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 1.8 %RE @ 15.16 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 15:33 EDT

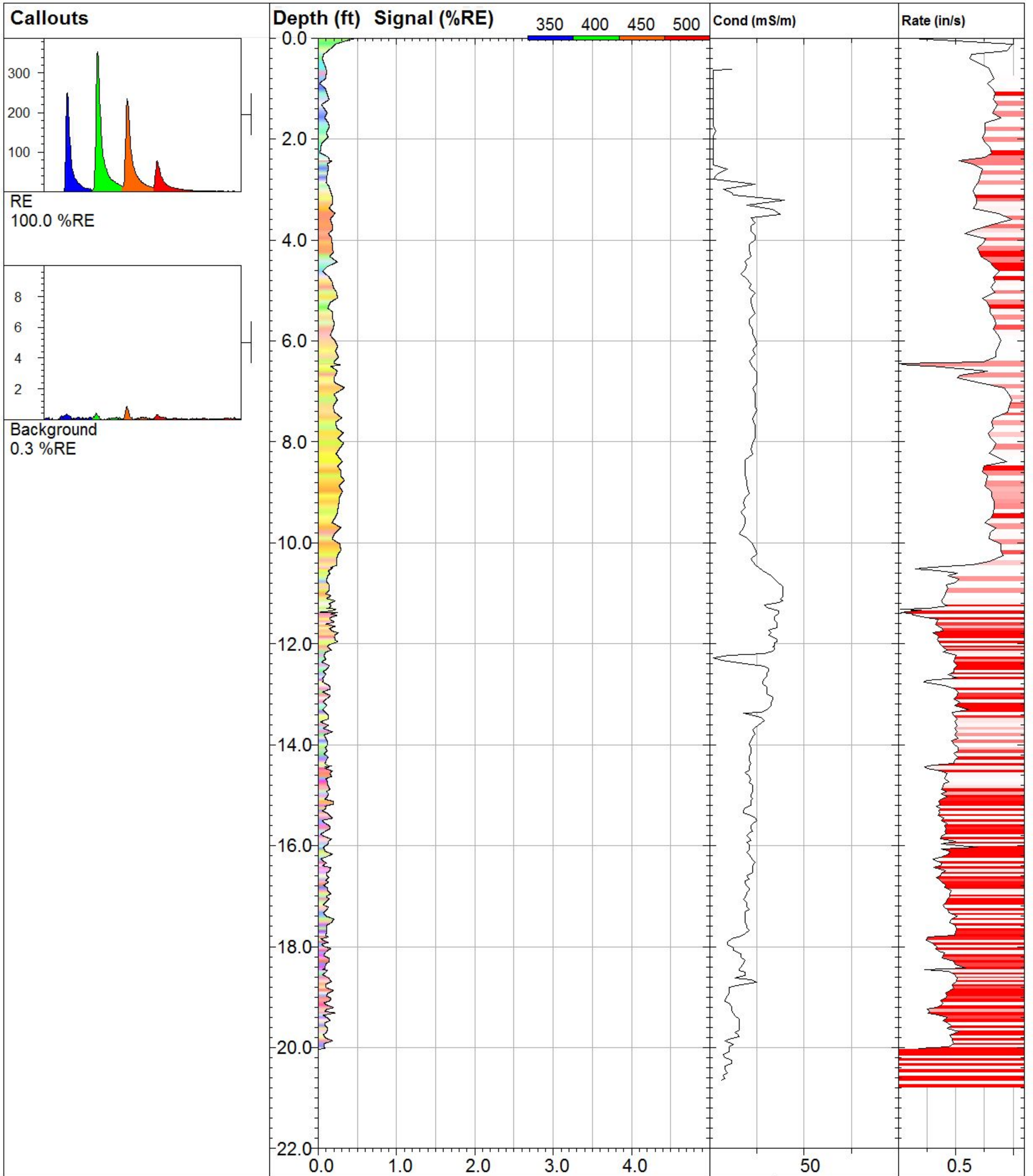
Callouts



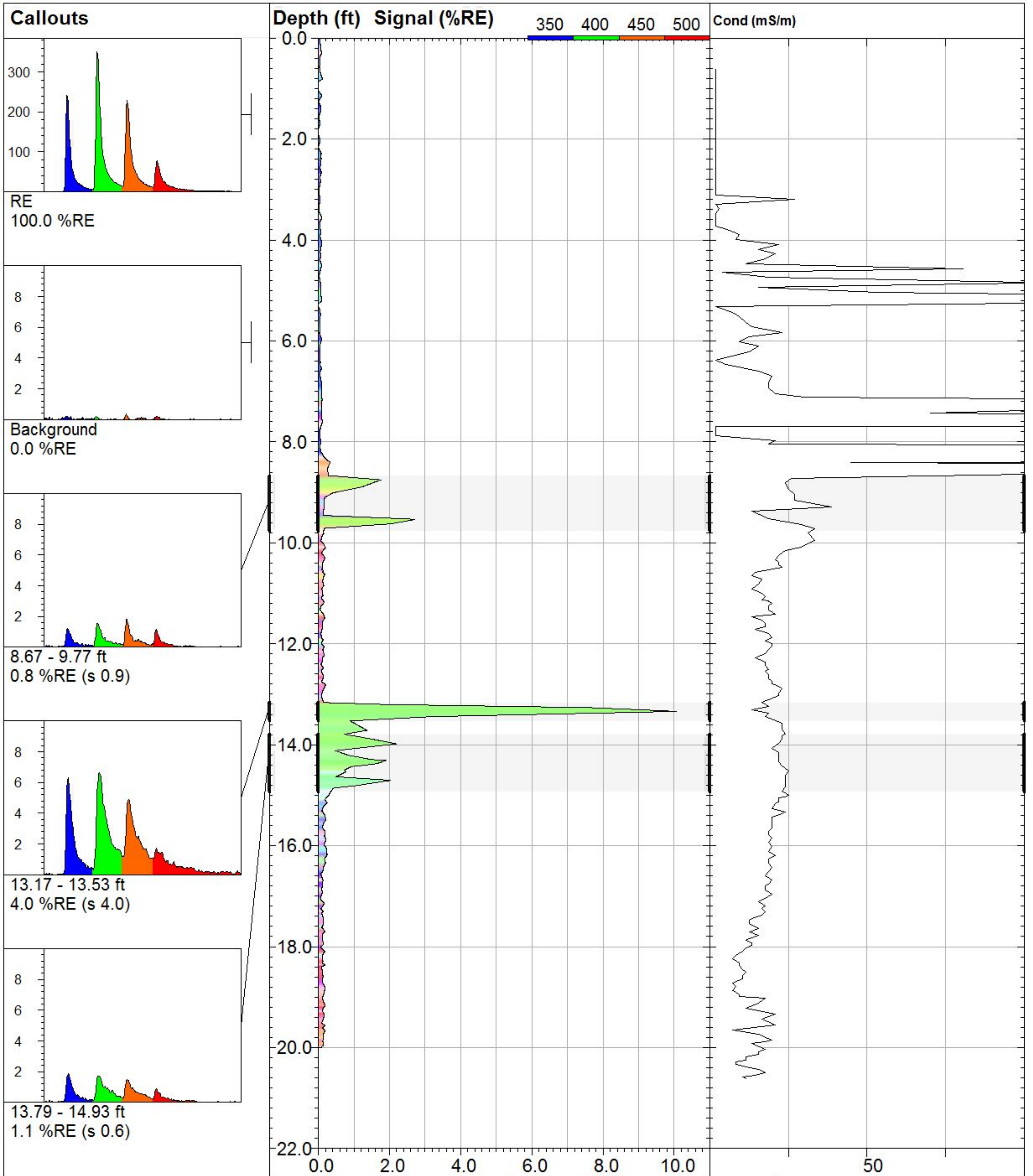
LIF13		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.00 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 5.7 %RE @ 4.92 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-10 16:11 EDT



LIF14		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.03 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 28.3 %RE @ 10.84 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-11 08:07 EDT



LIF15		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 20.02 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 0.5 %RE @ 0.01 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-11 08:42 EDT



LIF16

UVOST® By Dakota
www.DakotaTechnologies.com

Site:
CSX Brunswick

Y Coord.(Lat-N) / System:
Unavailable / NA

Final depth:
20.00 ft

Client / Job:
Arcadis /

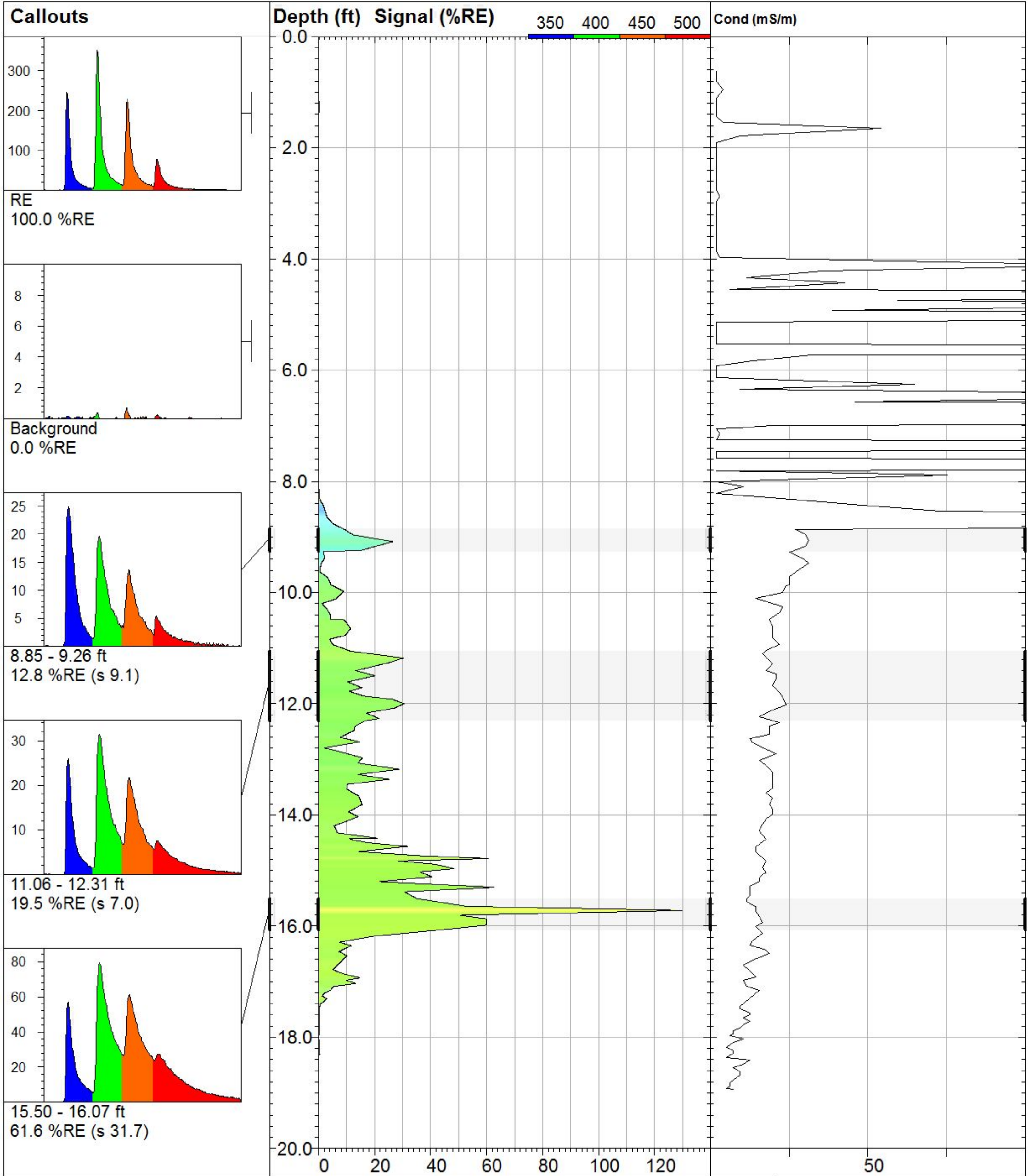
X Coord.(Lng-E) / Fix:
Unavailable / NA

Max signal:
10.1 %RE @ 13.34 ft

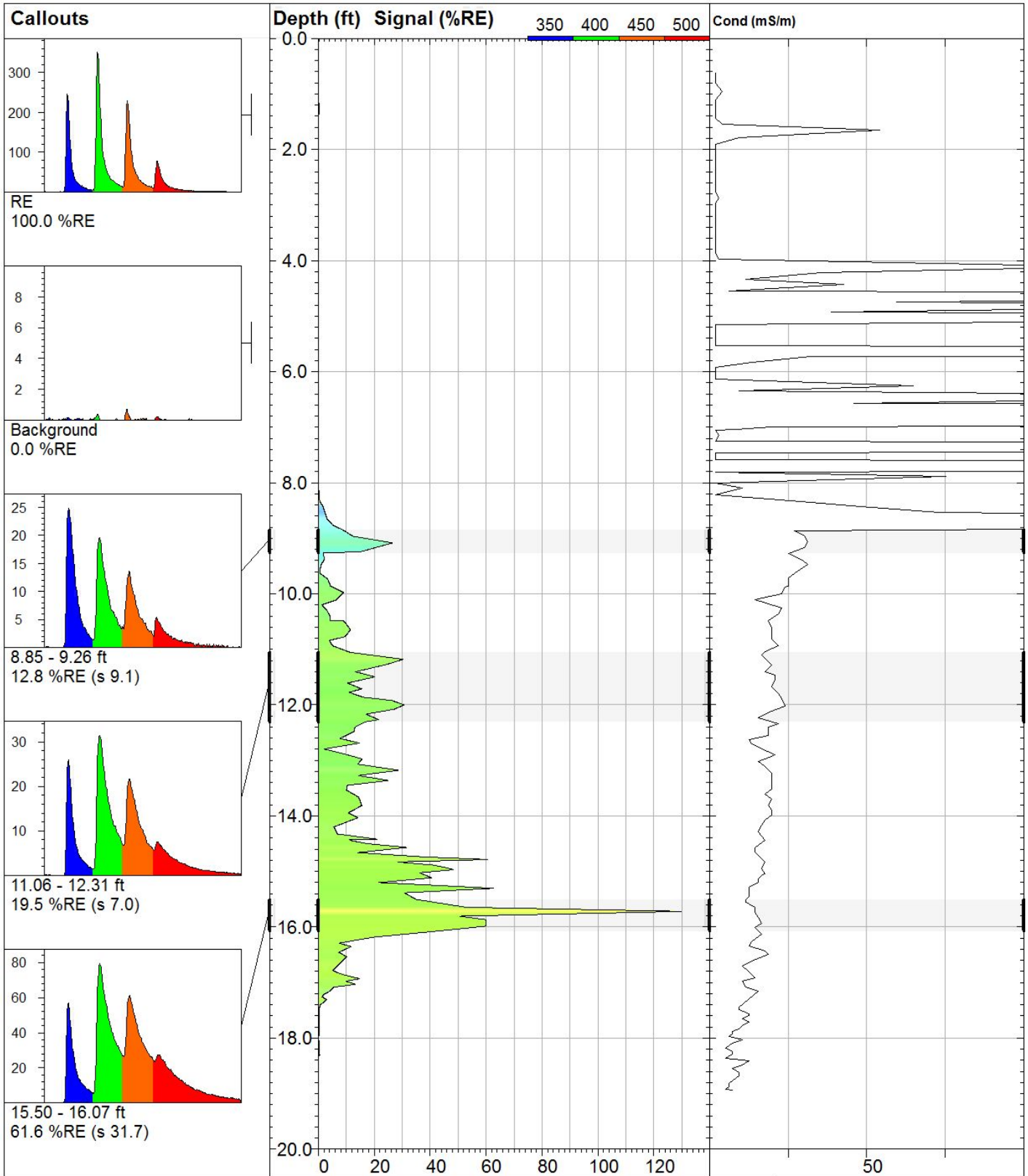
Operator / Unit:
Heicher / UVOST1015

Elevation:
Unavailable

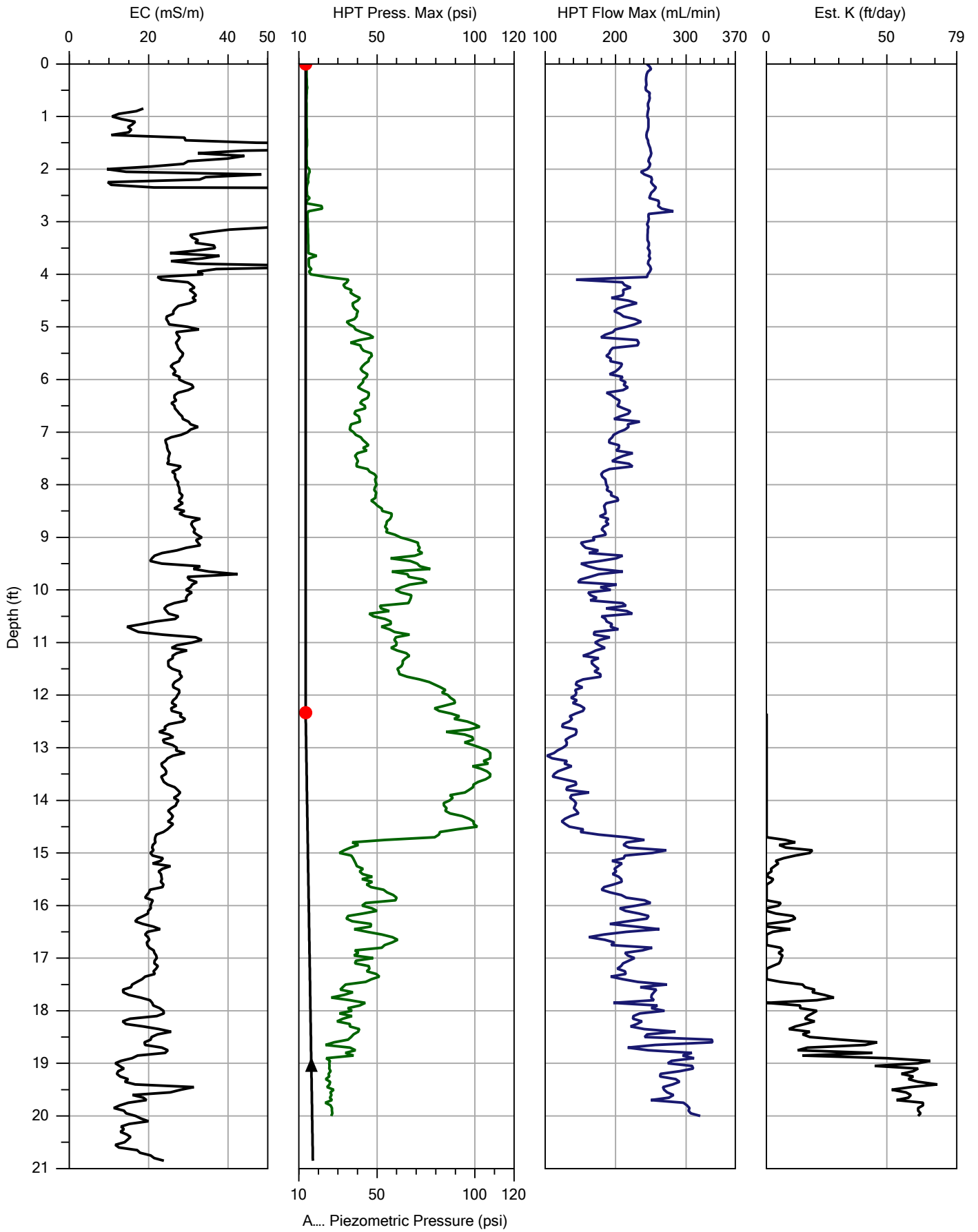
Date & Time:
2016-05-11 09:23 EDT



LIF17		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 18.32 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 130.5 %RE @ 15.72 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-11 09:59 EDT



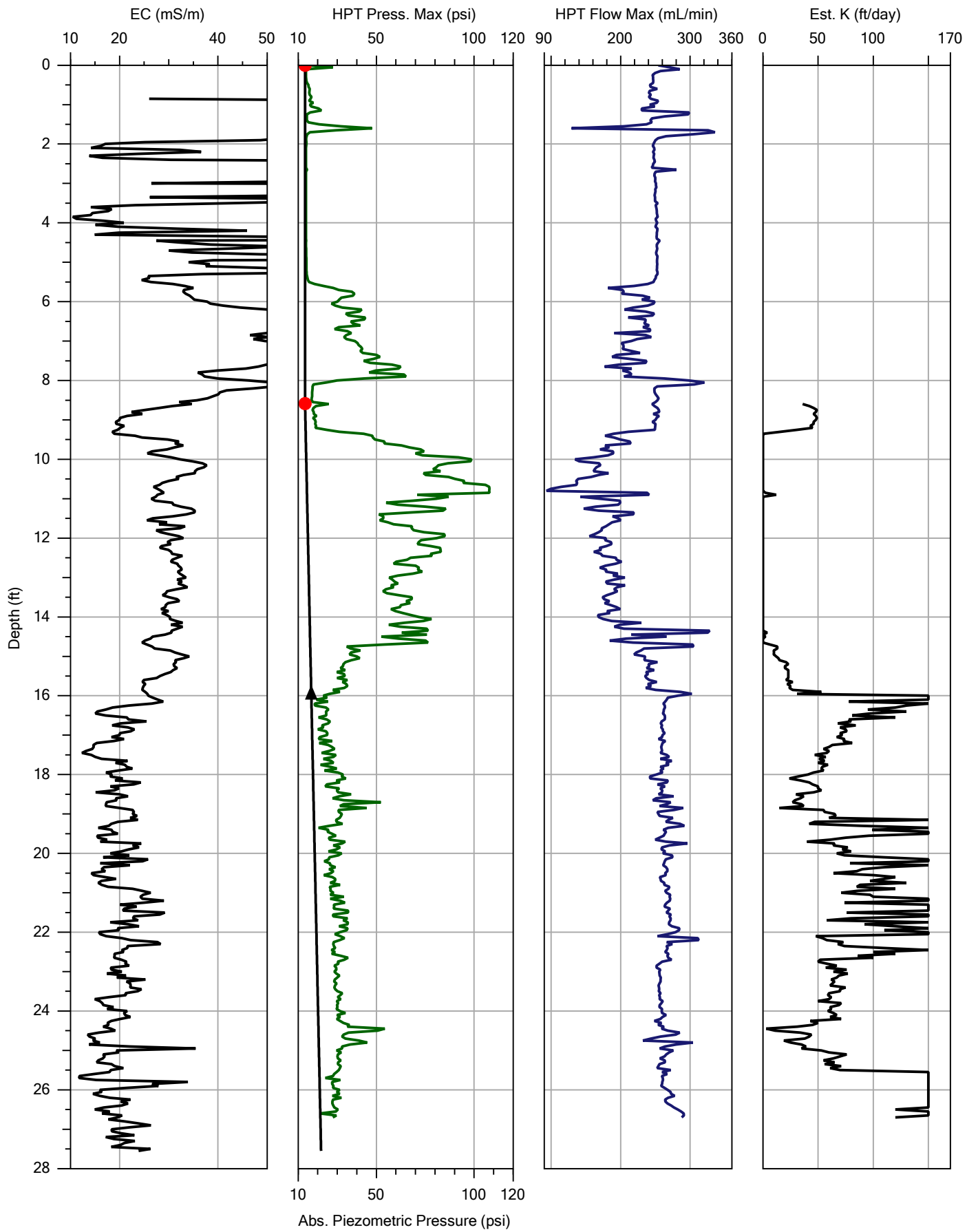
LIF17		UVOST® By Dakota www.DakotaTechnologies.com
Site: CSX Brunswick	Y Coord.(Lat-N) / System: Unavailable / NA	Final depth: 18.32 ft
Client / Job: Arcadis /	X Coord.(Lng-E) / Fix: Unavailable / NA	Max signal: 130.5 %RE @ 15.72 ft
Operator / Unit: Heicher / UVOST1015	Elevation: Unavailable	Date & Time: 2016-05-11 09:59 EDT



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

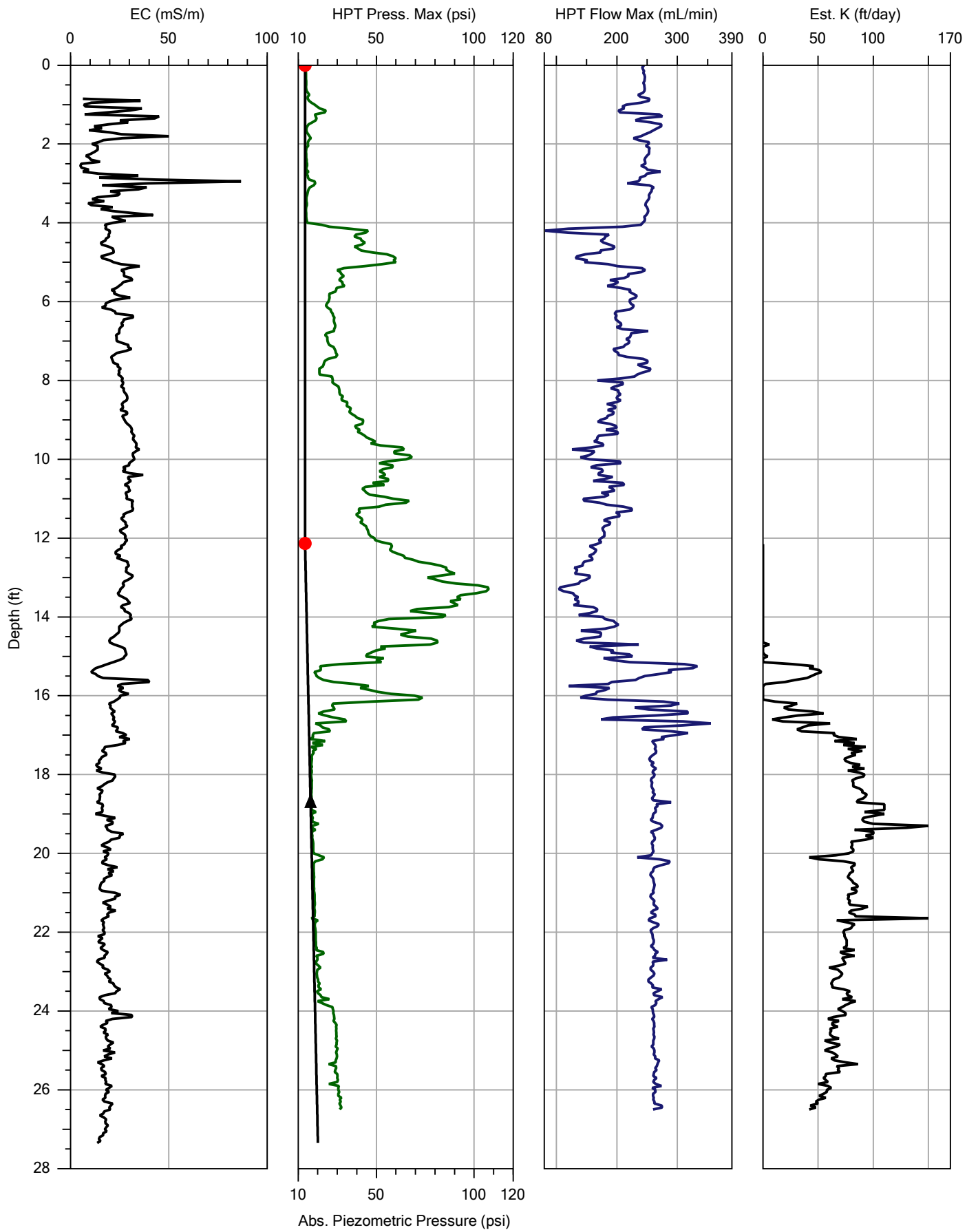
File:	HPT01.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

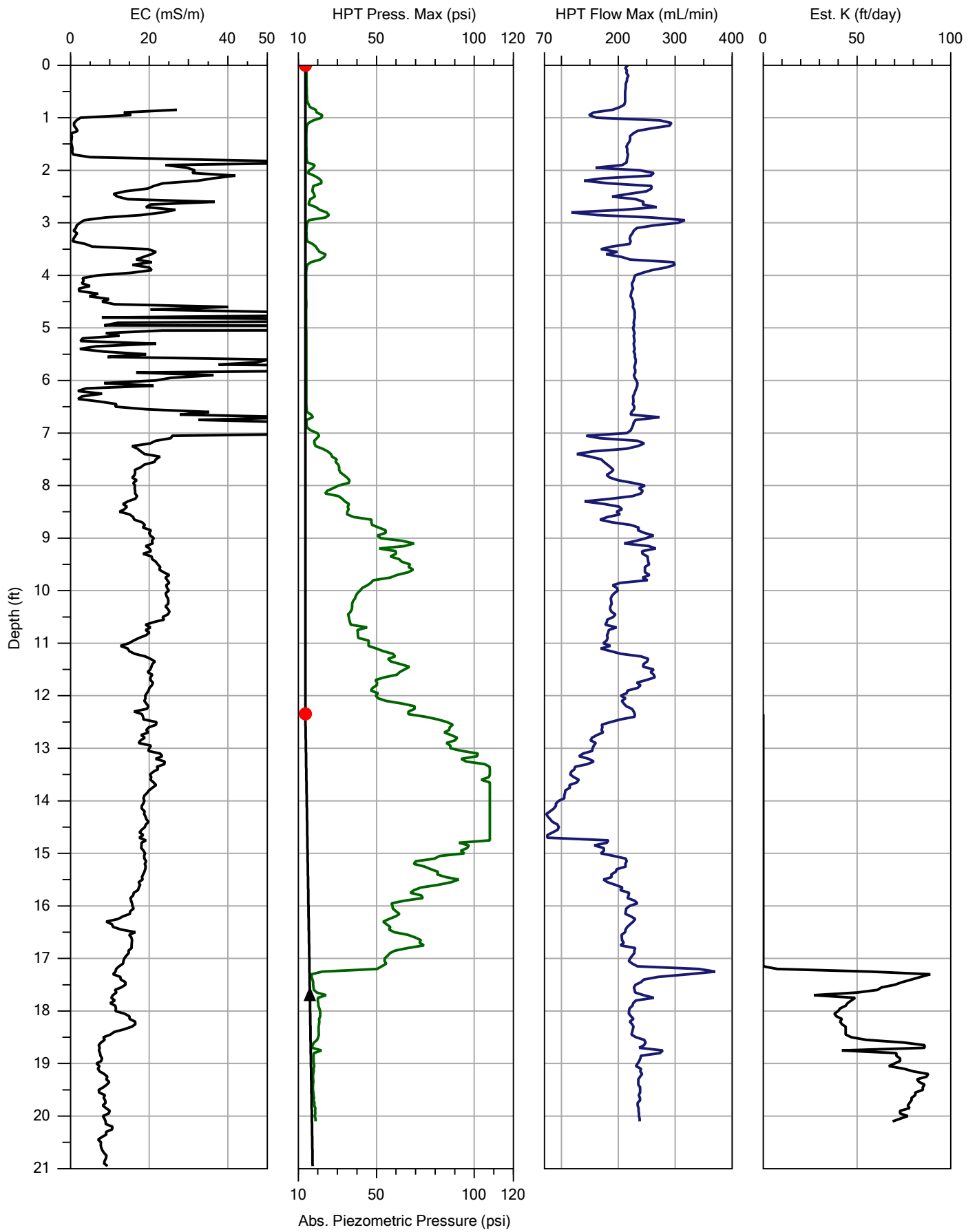
File:	HPT02.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

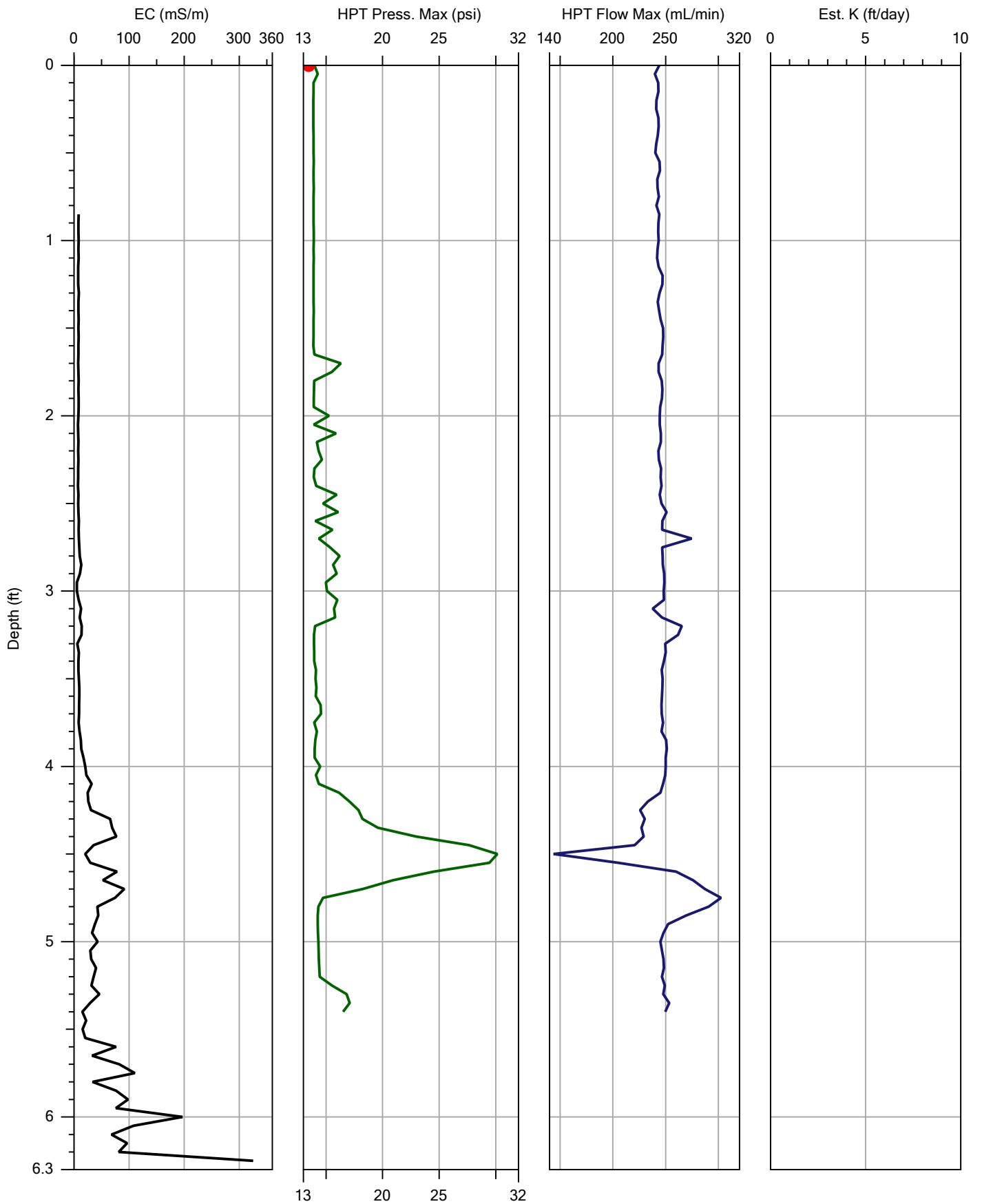
File:	HPT03.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

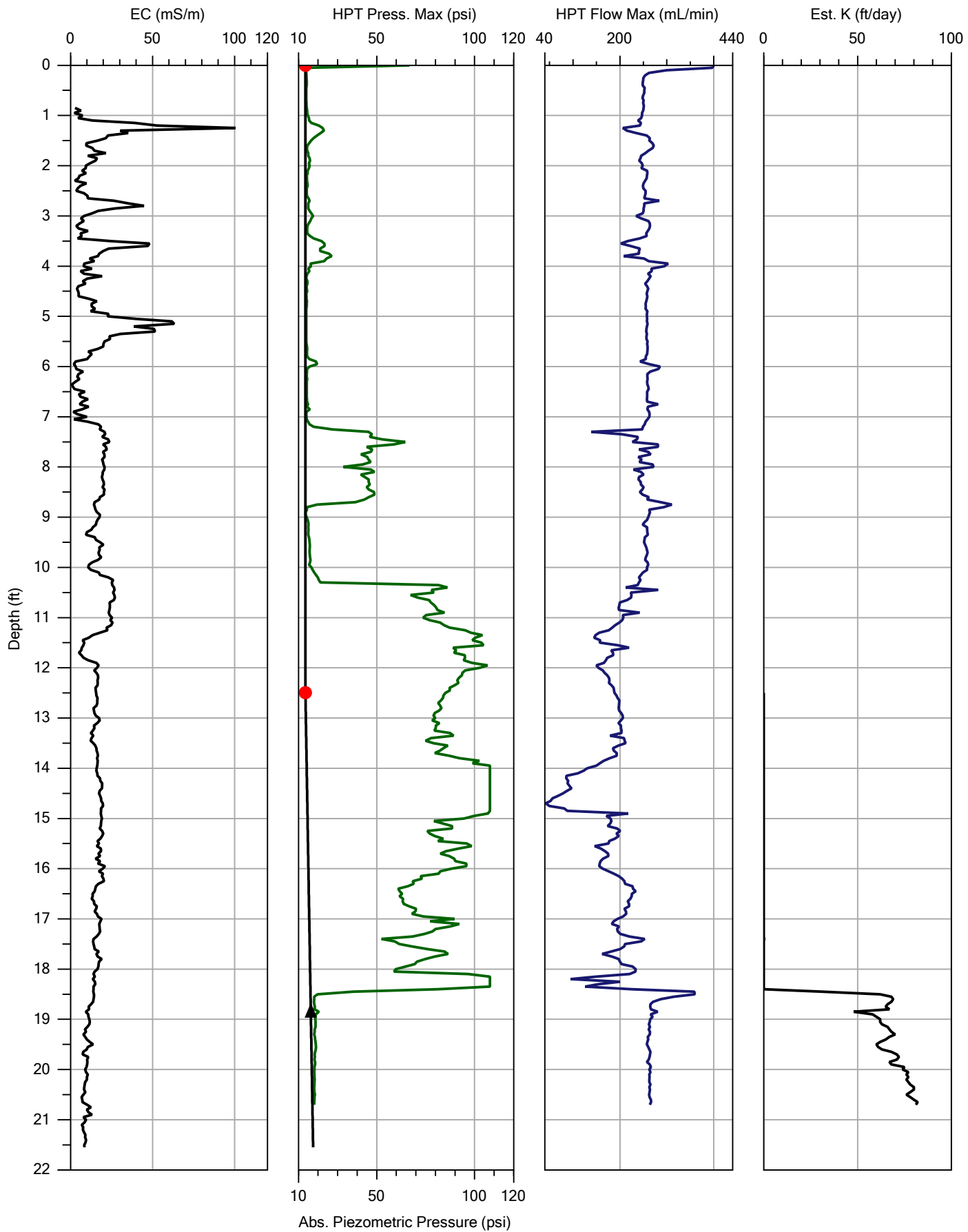
File:	HPT05.HPT
Date:	5/11/2016
Location:	



A.... Piezometric Pressure (psi)



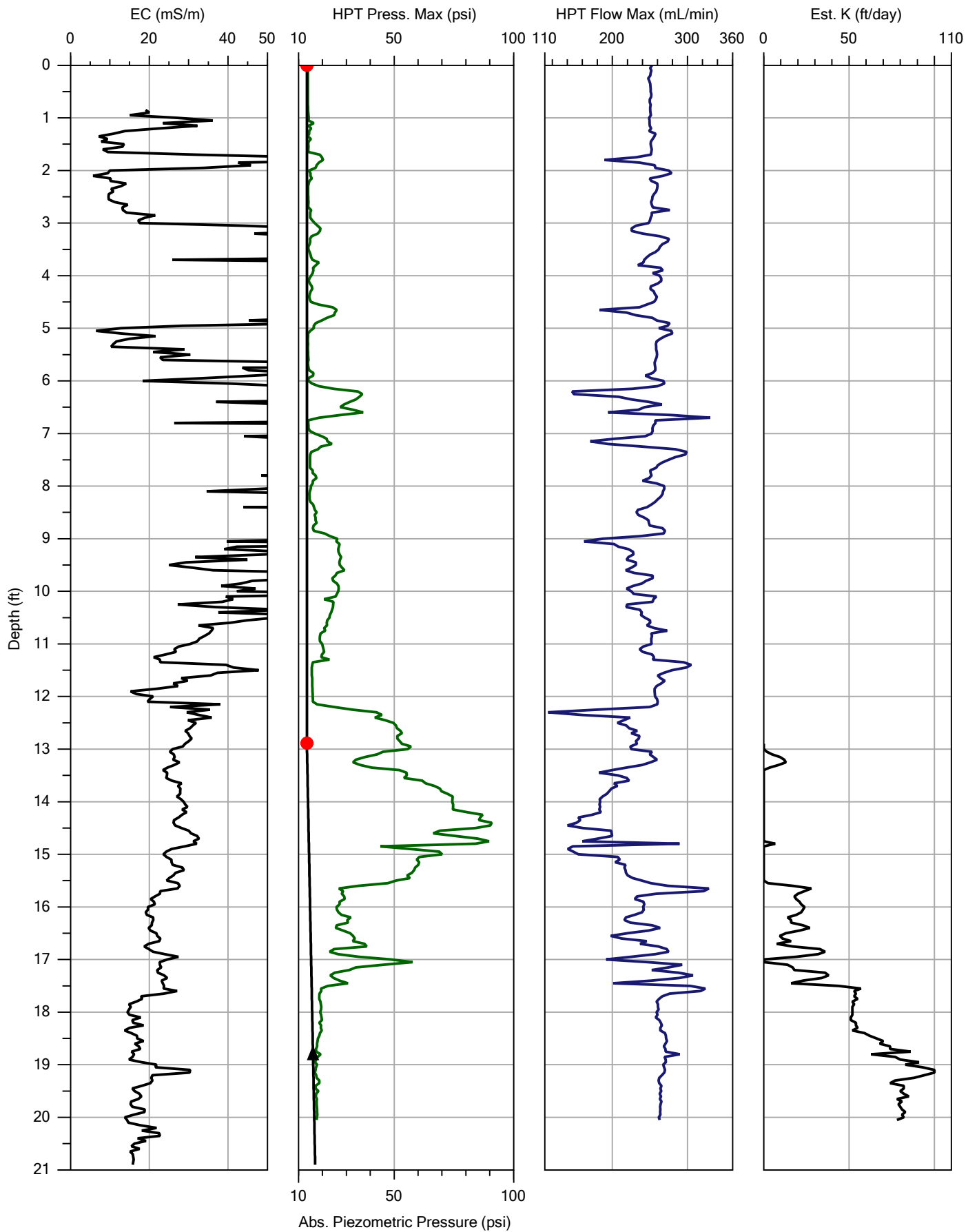
Company:	Dakota Technologies	Operator:	Heicher	File:	HPT07.HPT
Project ID:	CSX Brunswick	Client:	Arcadis	Date:	5/12/2016
				Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

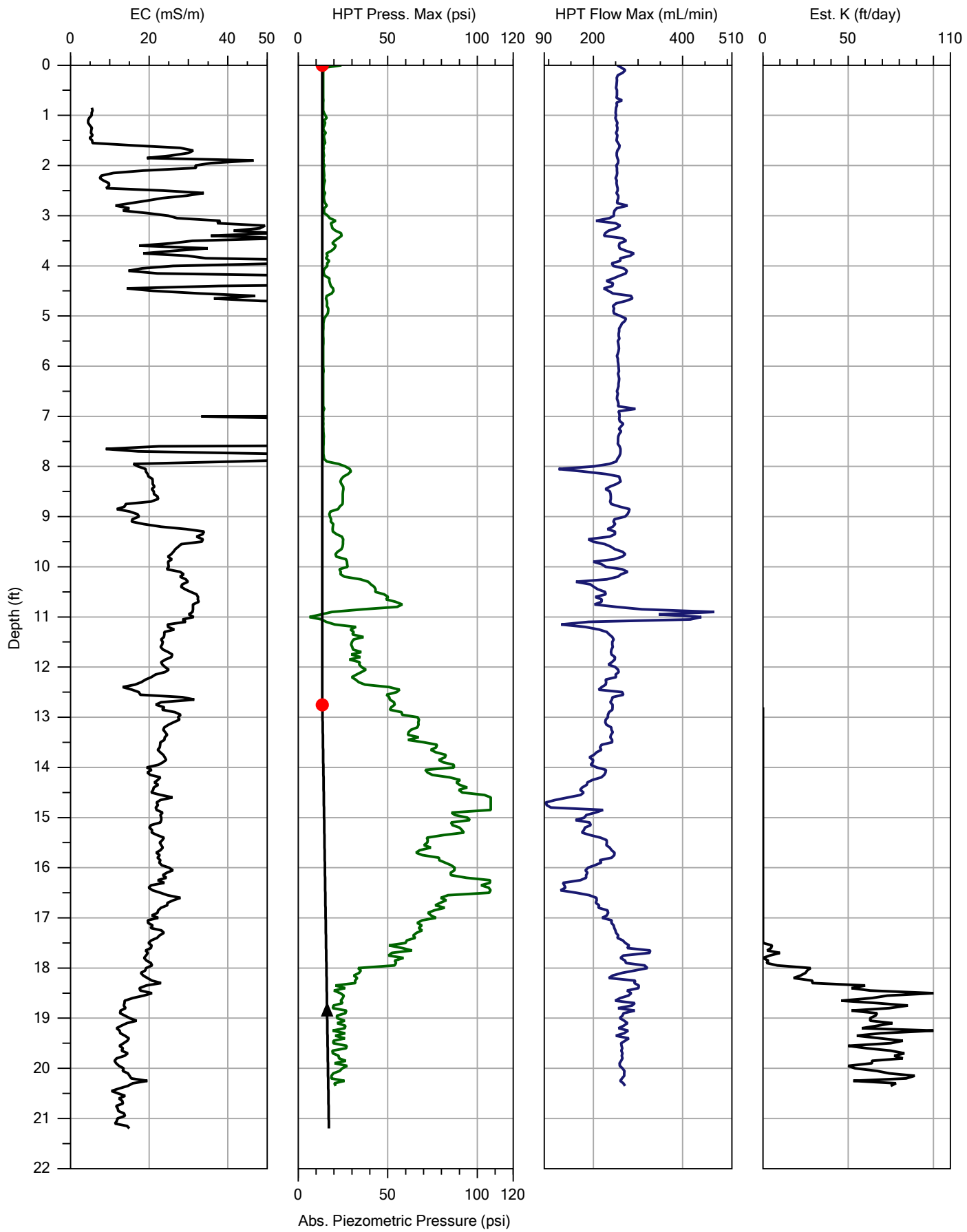
File:	HPT08.HPT
Date:	5/11/2016
Location:	



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

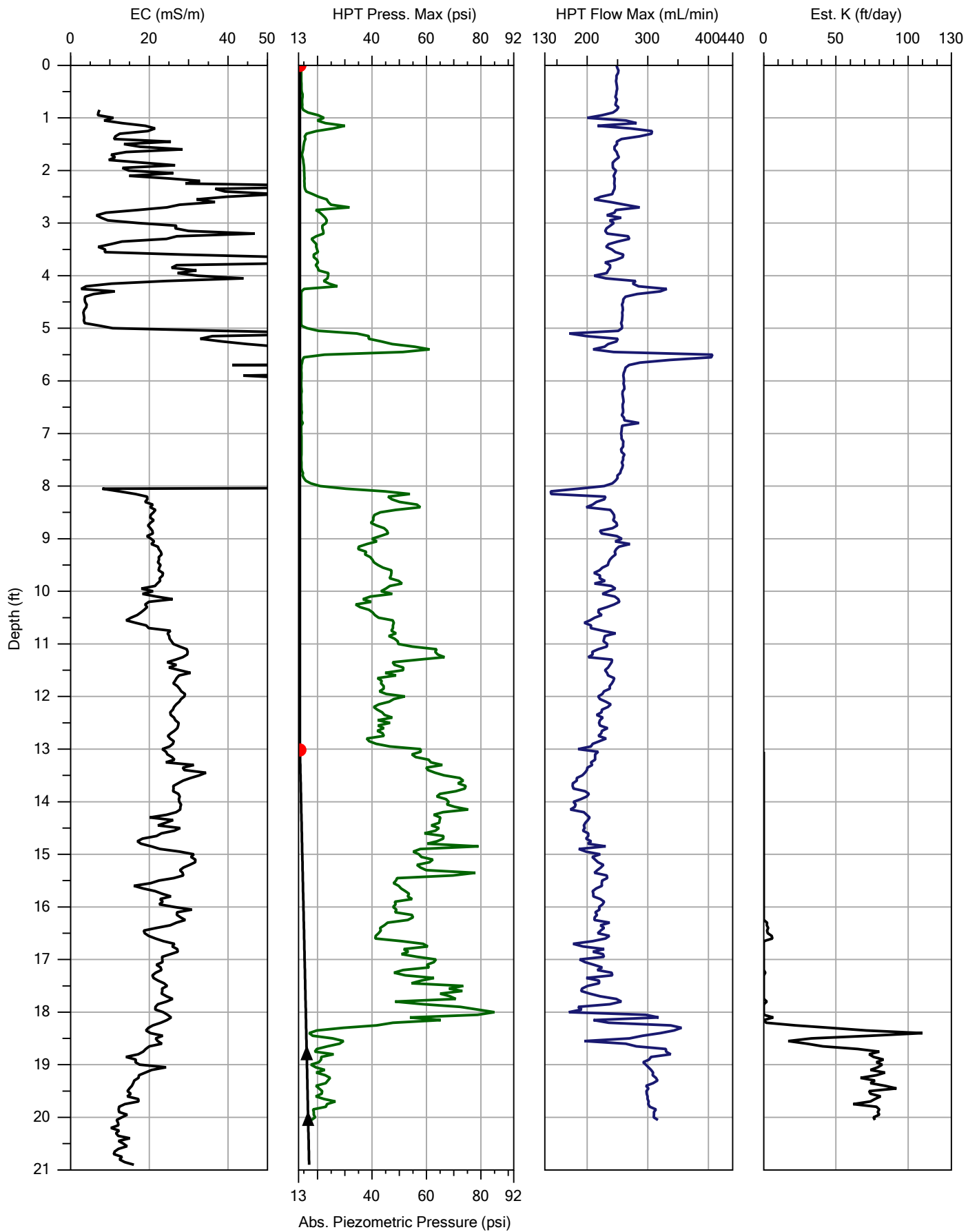
File:	HPT09.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

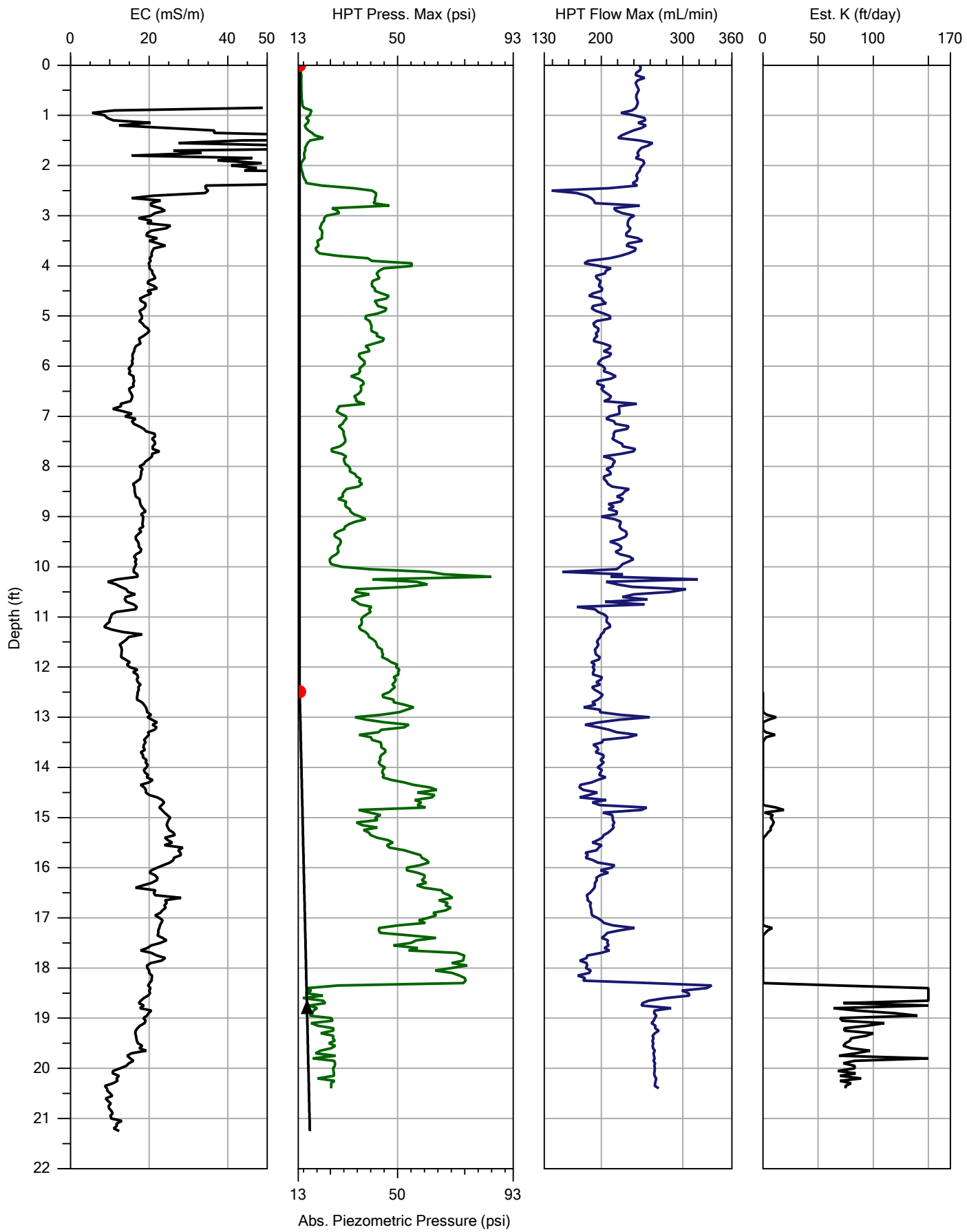
File:	HPT10.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

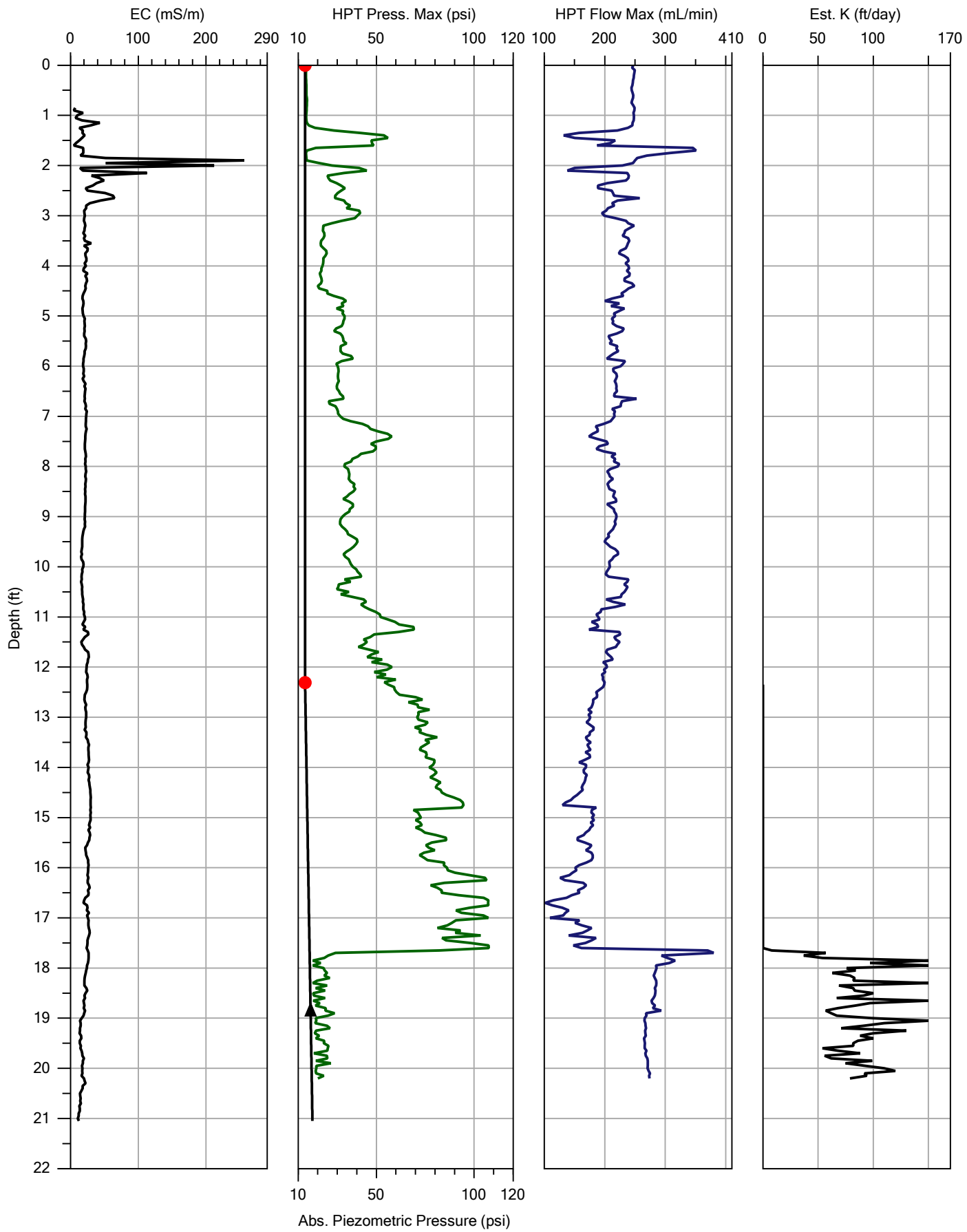
File:	HPT11.HPT
Date:	5/12/2016
Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

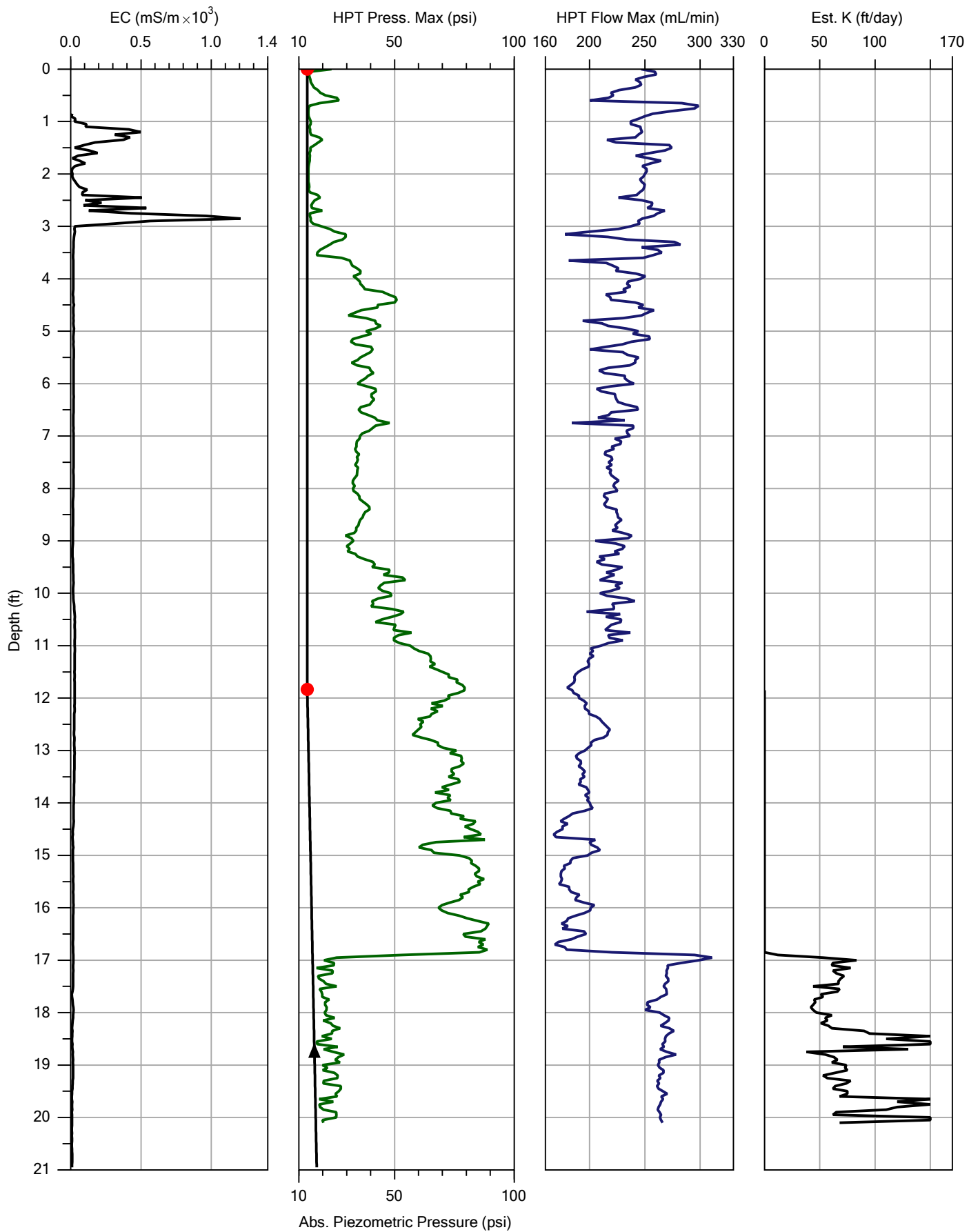
File:	HPT12.HPT
Date:	5/11/2016
Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

File:	HPT13.HPT
Date:	5/11/2016
Location:	



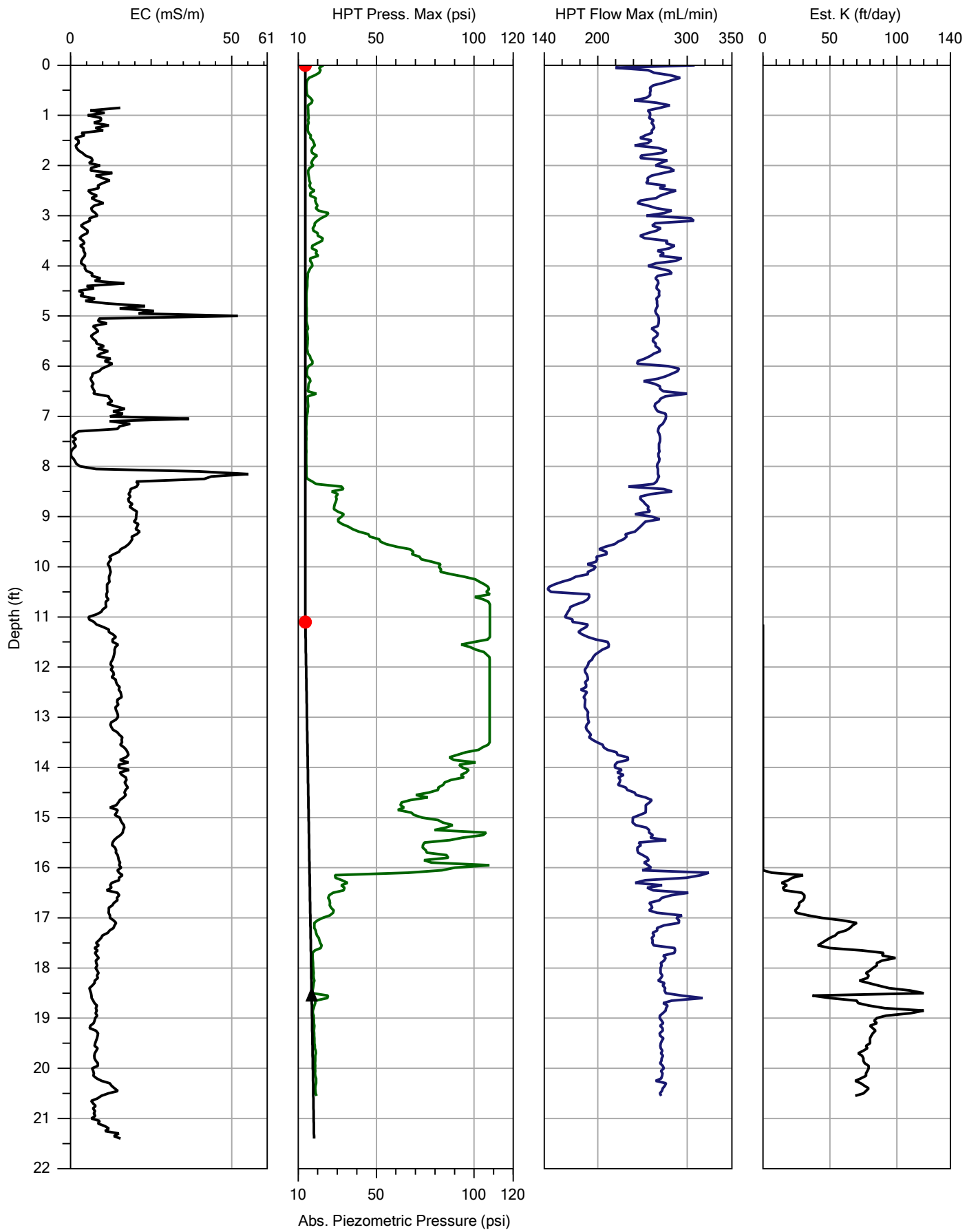
Abs. Piezometric Pressure (psi)



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

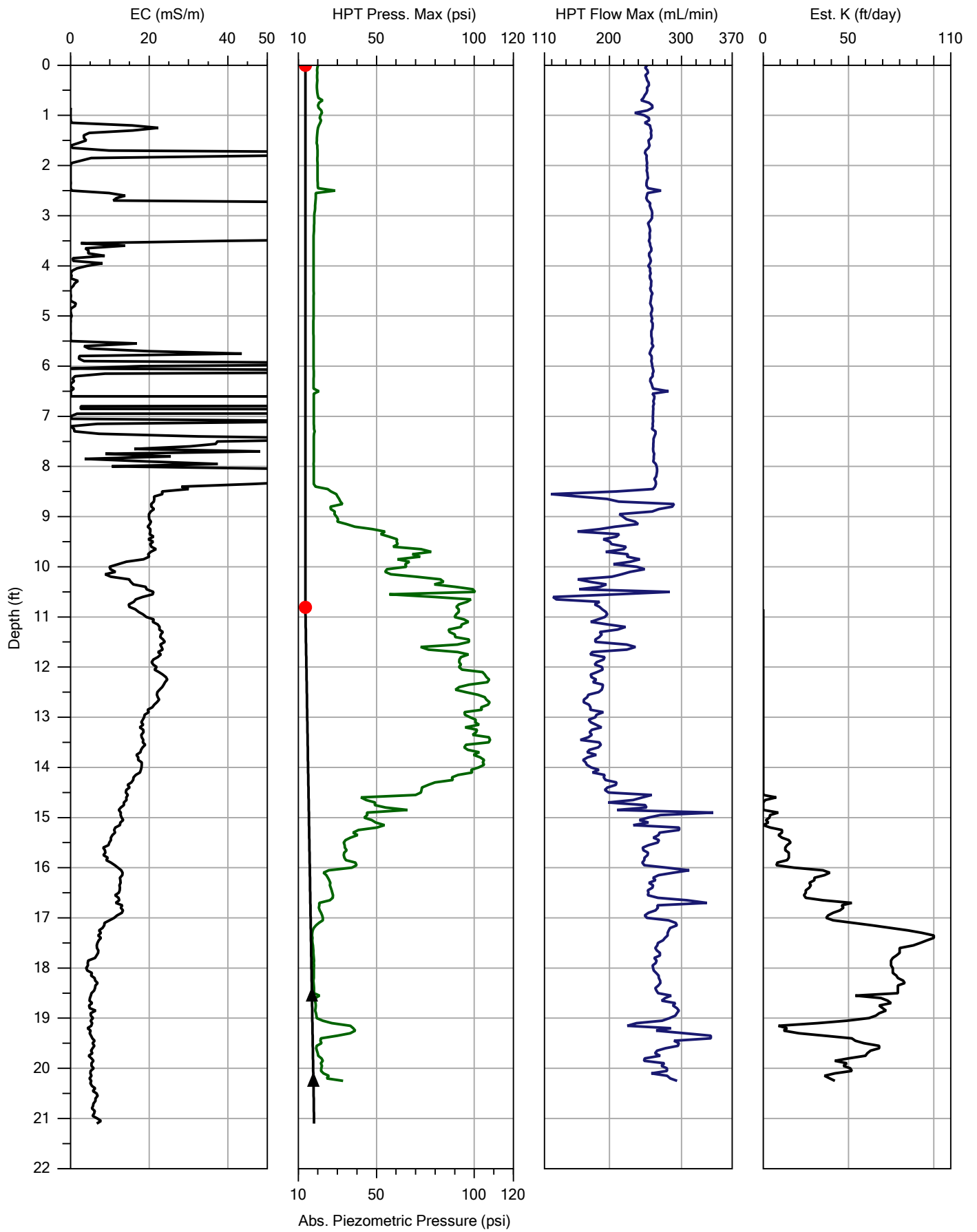
File:	HPT15.HPT
Date:	5/11/2016
Location:	



Company: Dakota Technologies
 Project ID: CSX Brunswick

Operator: Heicher
 Client: Arcadis

File:	HPT16.HPT
Date:	5/11/2016
Location:	



Company: Dakota Technologies
Project ID: CSX Brunswick

Operator: Heicher
Client: Arcadis

File:	HPT17.HPT
Date:	5/11/2016
Location:	

APPENDIX C

NSZD Laboratory Report



E-Flux, LLC

Project: Brunswick, MD
 Customer: Arcadis
 Customer Contact: Lauren Lamp

Report Date: August 15, 2016

Basis for Analysis:

This report is based on E-Flux proprietary technology and equipment to measure soil gas efflux. Chemical analysis is based on methods ASTM 4373-02 (Rapid Determination for Carbonate Content in Soils), and ASTM D6686-12 (Determining the Biobased Content in Solids, Liquids and Gases Using Radiocarbon Analysis).

This report contains Confidential Information and is to be delivered only to the Customer indicated above.

Sample	Deployment Dates			Raw Results (not blank corrected)					Blank Corrected Results ^a		¹⁴ C Analysis (Fossil Fuel)							
									Carbon Content ^d	CO ₂ Flux ^e	Modern Carbon, As Reported ^g	Std. Dev. Modern	Modern CO ₂ Flux	Contemporary Fossil Fuel Carbon %	Grams Of Fossil Fuel CO ₂	Fossil Fuel CO ₂ Flux	Equivalent Fossil Fuel NAPL Loss Rate	
	Deployed	Retrieved	Days	Moisture %	Dry Sorbent Mass, g	Number of Replicates	avg % CO ₂ ^b	CV % CO ₂ ^c	%CO ₂	g CO ₂	microM/m ² .sec	% Mod	%	microM/m ² .sec	%f.f.	g CO ₂ f.f.	microM/m ² .sec	gallons/acre .yr
BYMD-R1B-CO2-TB	NA	NA	-	13.1%	44.710	2	1.13%	0.18%	NA	NA	NA	75.2%	0.31%	NA	28.4%	0.00	NA	NA
BYMD-R1B-CO2-01	6/28/16 12:45	7/14/16 9:40	15.87	19.6%	47.730	2	5.19%	0.61%	4.1%	1.94	3.96	56.4%	0.19%	1.93	46.3%	0.99	2.03	1,269
BYMD-R1B-CO2-02	6/28/16 12:00	7/14/16 9:29	15.90	16.0%	45.914	2	6.62%	0.55%	5.5%	2.52	5.15	22.7%	0.11%	0.59	78.4%	2.24	4.57	2,855
BYMD-R1B-CO2-03	6/28/16 12:23	7/14/16 9:35	15.88	19.7%	46.994	2	2.67%	1.47%	1.5%	0.72	1.48	47.8%	0.15%	0.39	54.4%	0.53	1.09	680
BYMD-R1B-CO2-04	6/28/16 13:18	7/14/16 9:18	15.83	16.2%	44.678	2	3.05%	1.42%	1.9%	0.86	1.76	52.1%	0.15%	0.65	50.4%	0.54	1.11	695
BYMD-R1B-CO2-05	6/28/16 13:05	7/14/16 9:50	15.86	16.9%	46.773	2	6.83%	0.73%	5.7%	2.67	5.46	92.4%	0.21%	4.98	12.0%	0.23	0.48	300

Assumptions and General Notes:

- a. Results are travel blank corrected but not background location corrected. Blank Corrected Results = Raw Results - Travel Blank
- b. Carbon analysis was conducted in duplicate if CV ≤ 5%. If CV > 5%, carbon analysis was conducted with triplicates. Avg % refers to the percent of CO₂ in the dry sorbent mass before blank corrected.
- c. CV is coefficient of variation, equal to the ratio of the standard deviation over the average.
- d. If trap carbon content is not larger than travel blank, results are reported as ND.
- e. Trap cross sectional area is 8.11 e-03 m²
- f. The flux equivalence is 1 microMole/(m².sec) equals 625 gallons/(acre.yr). This assumes a hydrocarbon density of 0.77 g/mL and a formula of C₈H₁₈.
- g. "As reported" refers to % modern carbon at the time of development of the test (1950).

NA: Not Applicable

Please refer to the supplemental calculation sheet for more information regarding specific conversions and calculations.

Quality Assurance/Quality Control Notes:

Travel blank (TB) concentration was 1.13%. Typical travel blank concentrations are < 2%.

Trap tops were not saturated. Max. measured top concentration was 2.41% (sample BYMD-R1B-CO2-04). Sorbent saturation is 30%.

Modern carbon fluxes represent the contribution of plant and microbial activity to the total carbon flux that the ¹⁴C analysis corrects for. Average modern CO₂ flux was 1.7 microMole/m².s, with a coefficient of variation of 113%.

ASTM 4373-02 QA/QC criteria does not provide acceptable variability (CV) standards. Similar methods (for example for carbonates in water, such as ASTM 513.02) provide typical error ≤ 20%. E-Flux practice is that a CV ≤ 5% is acceptable.

For any comments or questions, please contact:

Julio Zimbron, Ph.D.
 E-Flux, LLC
 3185-A Rampart Road, Room 250D
 Fort Collins, CO 80521
 o: (970) 492.4360 c: (970) 219-2401
 jzimbron@soilgasflux.com



CO2 TRAP SHIPMENT AND INSTALLATION LOG
LNAPL NATURAL ATTENUATION STUDY

Date: 7/14/2016

Date Returned to E-Flux: 7/14/16

Deployment Area	Trap Location	Identification on Outside of Trap Box	Trap Placed in Field		Trap Recovered from Field		Comments
			Date	Time	Date	Time	
MW-41, 53, 54, 55 fence		BYMD-RIB-CO2-01	6/28/16	1245	7/14/16	0940	Near MW-59 + MW-32
near MW-63		BYMD-RIB-CO2-02	6/28/16	1200	7/14/16	0929	inside MW-41, 53, 54, 55 fence
		BYMD-RIB-CO2-03	6/28/16	1223	7/14/16	0935	near MW-63
		BYMD-RIB-CO2-04	6/28/16	1318	7/14/16	0918	inside MW-56 fence
		BYMD-RIB-CO2-05	6/28/16	1305	7/14/16	0950	near MW-52
Travel Blanks							
Travel Blank	Travel Blank	BYMD-RIB-CO2-TB	Date Received 6/17/16		Date Returned 7/14/16		

Installation Steps - KEEP TRAPS UPRIGHT - CAUTION, CONTAINS CAUSTIC MATERIAL

- 1- Find the appropriate trap for the location chosen (see map). Remove housing from over Receiver.
- 2- Remove screw-in caps (top and bottom). Add rain cover to top. Keep trap upright.
- 3- Place trap on receiver in ground using 4 in rubber coupler. Tighen hose clamps on rubber coupler.
- 4- At end of monitoring period, reverse steps. Cap both top and bottom of the trap.
- 5- Keep upright while handing and shipping.

Return Traps to:
(970) 219-2401

E-Flux, LLC
3185-A Rampart Road, Room 257D
Fort Collins, CO 80521

Attn: Julio Zimbron



Supplemental Calculations

Understanding Data in the Standard Report

For questions contact:

Julio Zimbron, Ph.D.

E-Flux, LLC

3185-A Rampart Road, Room 250D

Fort Collins, CO 80521

o: (970) 817.1401 c: (970) 219-2401

jzimbron@soilgasflux.com

Last modified: June 24, 2015.

Proprietary and Confidential Information

© 2015 All Rights Reserved.

Supplemental Calculations: Understanding Data and in the Standard Report

1.0 Introduction

The purpose of this document is to provide sample calculations related to the E-Flux standard report. The following calculations are addressed:

- conversion of g CO₂ to CO₂ flux
- conversion from modern C to fossil fuel C
- computation of fossil fuel CO₂
- calculation to convert carbon flux into NAPL loss rate

2.0 g CO₂ to CO₂ Flux

Finding CO₂ flux from grams of CO₂ involves the cross-sectional area of the trap as well as the number of days that the trap was deployed in the field. The cross-sectional area of the trap is 8.11*10⁻³ m². The molecular weight of CO₂ is 44 g/mol. Converting g of CO₂ to CO₂ flux is as follows:

$$\frac{\left(g \text{ CO}_2 * \left(\frac{1 \text{ mol CO}_2}{44 \text{ g CO}_2} \right) * \left(\frac{1,000,000 \text{ micro mol CO}_2}{\text{mol CO}_2} \right) * \left(\frac{1}{8.11 * 10^{-3} \text{ m}^2} \right) \right)}{\text{days in the field} * 24 \frac{\text{hr}}{\text{day}} * 3600 \frac{\text{sec}}{\text{hr}}} = \frac{\text{micro mol CO}_2}{\text{m}^2 * \text{sec}}$$

3.0 Modern C to Fossil Fuel C

Reported modern carbon content (from carbon dating or ¹⁴C analysis) is by convention at the ¹⁴C levels as of the time of development of the test (1950). Due to higher current levels of ¹⁴C in the environment resulting from atomic testing, current (contemporary) levels are approximately 5% higher than in 1950 (Hua et al., 2013). Thus, fossil fuel C can be found with the following conversions:

$$\% \text{ Modern } C_{\text{contemporary}} = \frac{\% \text{ Modern } C_{1950}}{1.05}$$

$$\text{Contemporary fossil fuel C \%} = 1 - \% \text{ Modern } C_{\text{contemporary}} = 1 - \frac{\% \text{ Modern } C_{1950}}{1.05}$$

Supplemental Calculations: Understanding Data and in the Standard Report

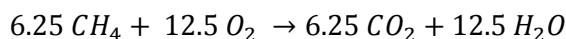
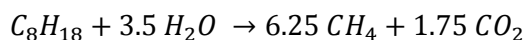
4.0 Calculating Grams of Fossil Fuel CO₂

Calculating grams of fossil fuel (f.f.) CO₂ is based on the travel blank corrected percent fossil fuel carbon in the sample (the difference between total fossil fuel CO₂ in the sample and that of the travel blank). This is done as follows:

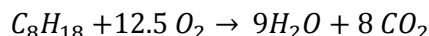
$$g \text{ sorbent dry mass} * ((\text{Avg sample \% CO}_2 * f.f. \text{ sample \% C}) - (\text{Avg TB \% CO}_2 * f.f. \text{ TB \% C})) = g f.f. \text{ CO}_2$$

5.0 Carbon Flux to Equivalent NAPL Loss Rate

The intermediate reactions for LNAPL mineralization include methanogenesis (production of methane and CO₂) and the subsequent aerobic oxidation of methane (into CO₂):



The overall reaction (the summation of both reactions), is:



The formula weight of C₈H₁₈ is 114.23 g/mole. Assuming an LNAPL density of 0.77 g/L (in the upper range of gasoline, for a conservative estimate), the following unit conversion follows:

$$\begin{aligned} & 1 \frac{\mu\text{Mole } CO_2}{m^2 s} \\ &= \frac{\mu\text{Mole } CO_2}{m^2 s} \times \left(\frac{1 \mu\text{mole } C_8H_{18}}{8 \mu\text{mole } CO_2} \right) \times \left(\frac{\text{Mole}}{1 \times 10^6 \mu\text{Mole}} \right) \times \left(\frac{4,046 m^2}{1 \text{ acre}} \right) \times \left(\frac{3600 s}{1 h} \right) \times \left(\frac{24 h}{1 d} \right) \\ & \times \left(\frac{365 d}{1 yr} \right) \times \left(\frac{114 g C_8H_{18}}{1 \text{ Mole } C_8H_{18}} \right) \times \left(\frac{1 mL C_8H_{18}}{0.77 g C_8H_{18}} \right) \times \left(\frac{1 L}{1000 mL} \right) \times \left(\frac{1 \text{ gallon}}{3.785 L} \right) \\ &= 625 \frac{\text{gallon } C_8H_{18}}{\text{acre} \cdot \text{yr}} \end{aligned}$$

Note that both the LNAPL formula and its density are assumed, and thus subject to uncertainty. If available, site specific data can be used.

Alternative assumptions on the LNAPL formula and its corresponding density generally result in a larger conversion factor (more gallons per acre per year), within 10-15% of the value shown here. Thus, this value is often a conservative estimate.

[Supplemental Calculations](#): Understanding Data and in the Standard Report

6.0 References

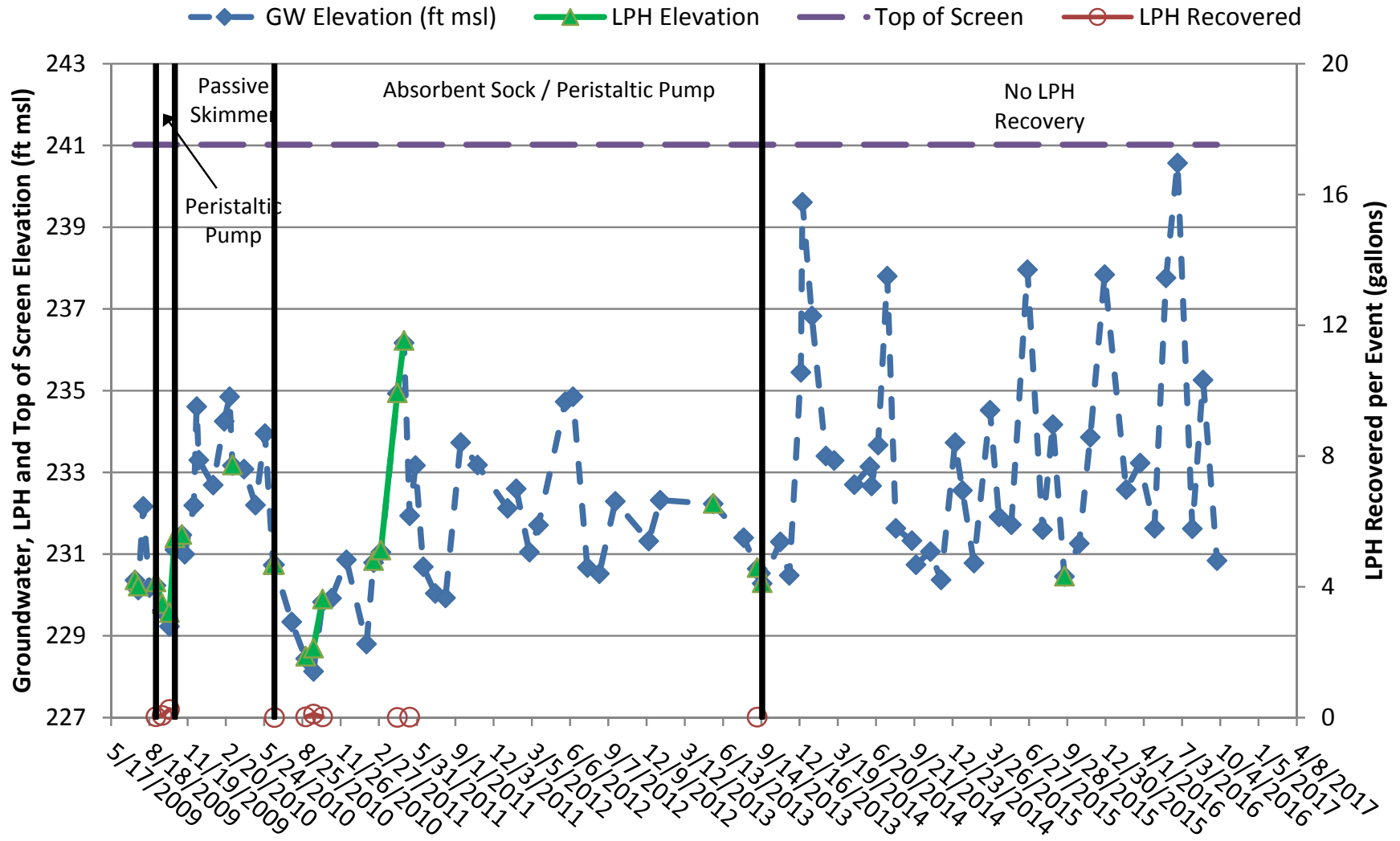
Hua, Q.; Barbetti, M.; and Rakowski, A.Z. (2013). Atmospheric Radiocarbon for the Period 1950-2010. *Radiocarbon*. 55(4), p 2059-2072

APPENDIX D

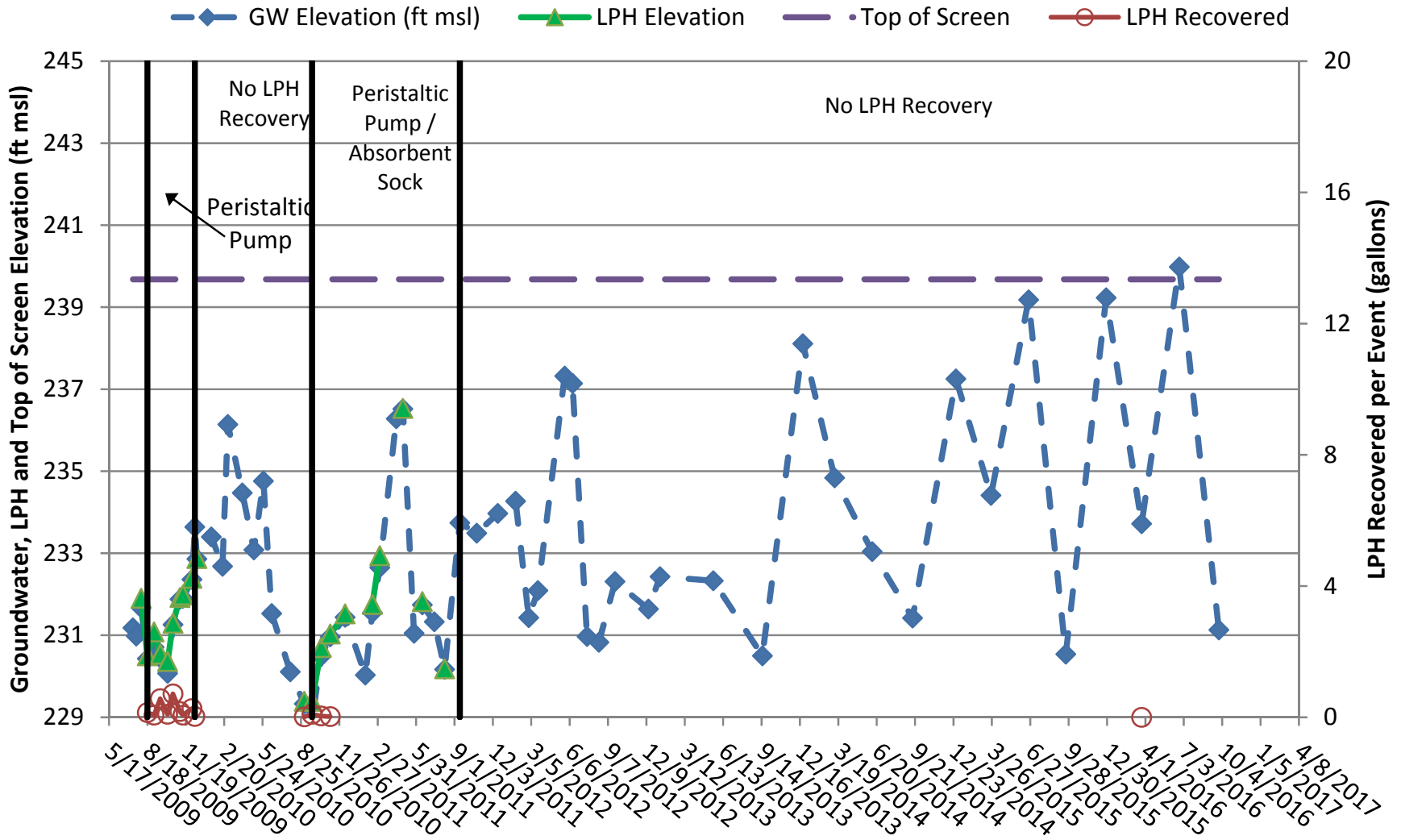
Hydrographs



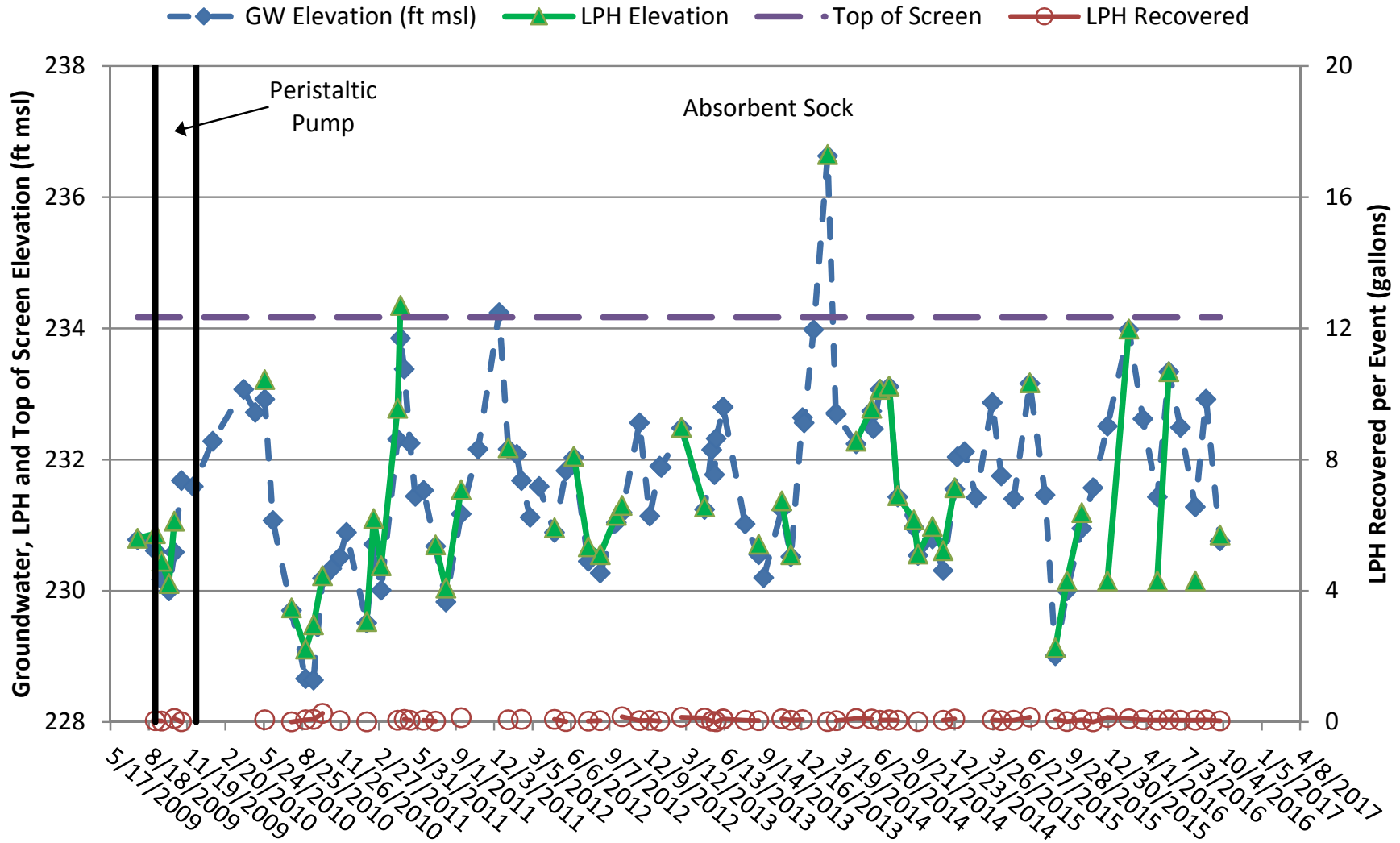
LPH and Groundwater Elevations and LPH Recovery: MW-2
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



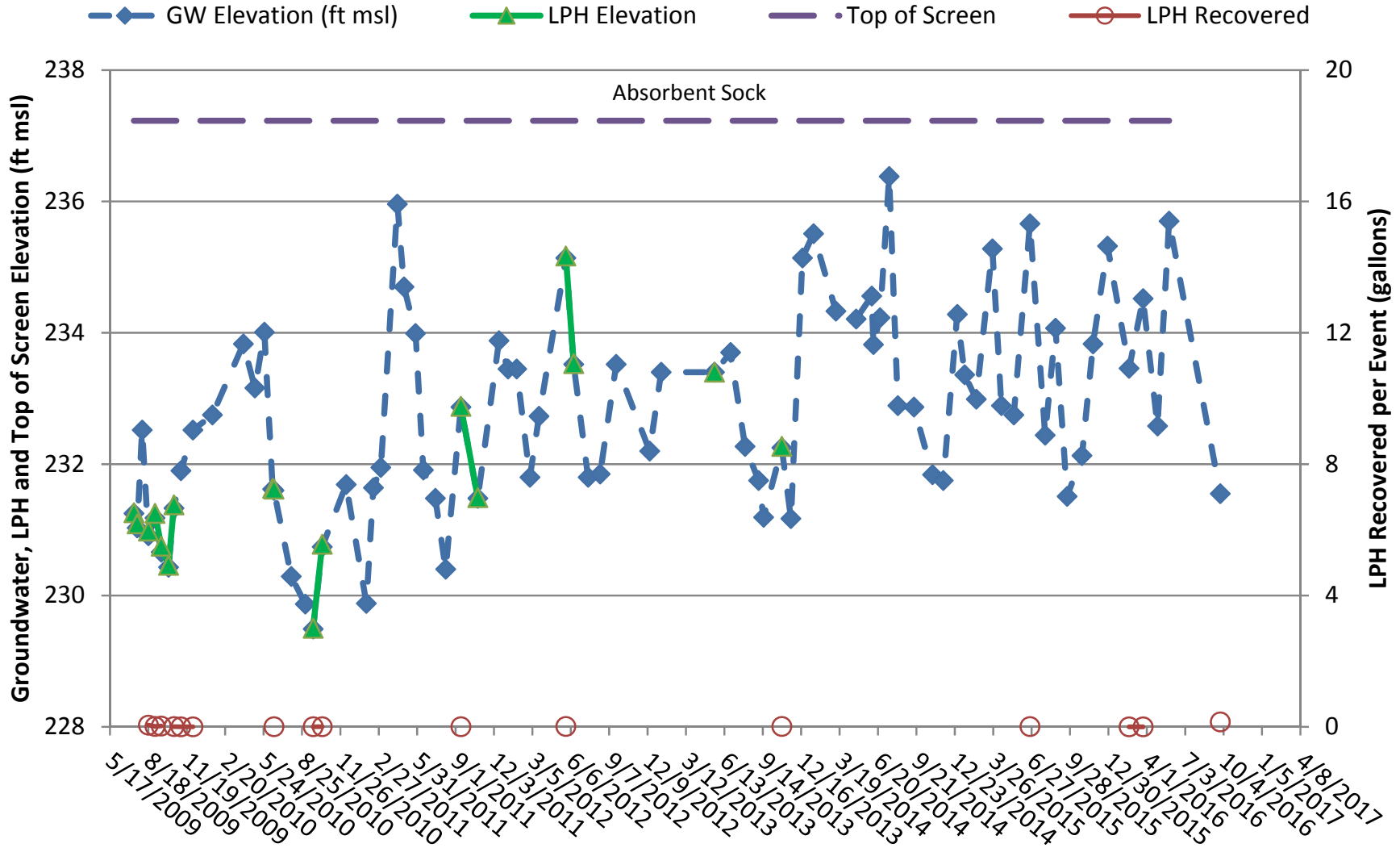
LPH and Groundwater Elevations and LPH Recovery: MW-4R
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



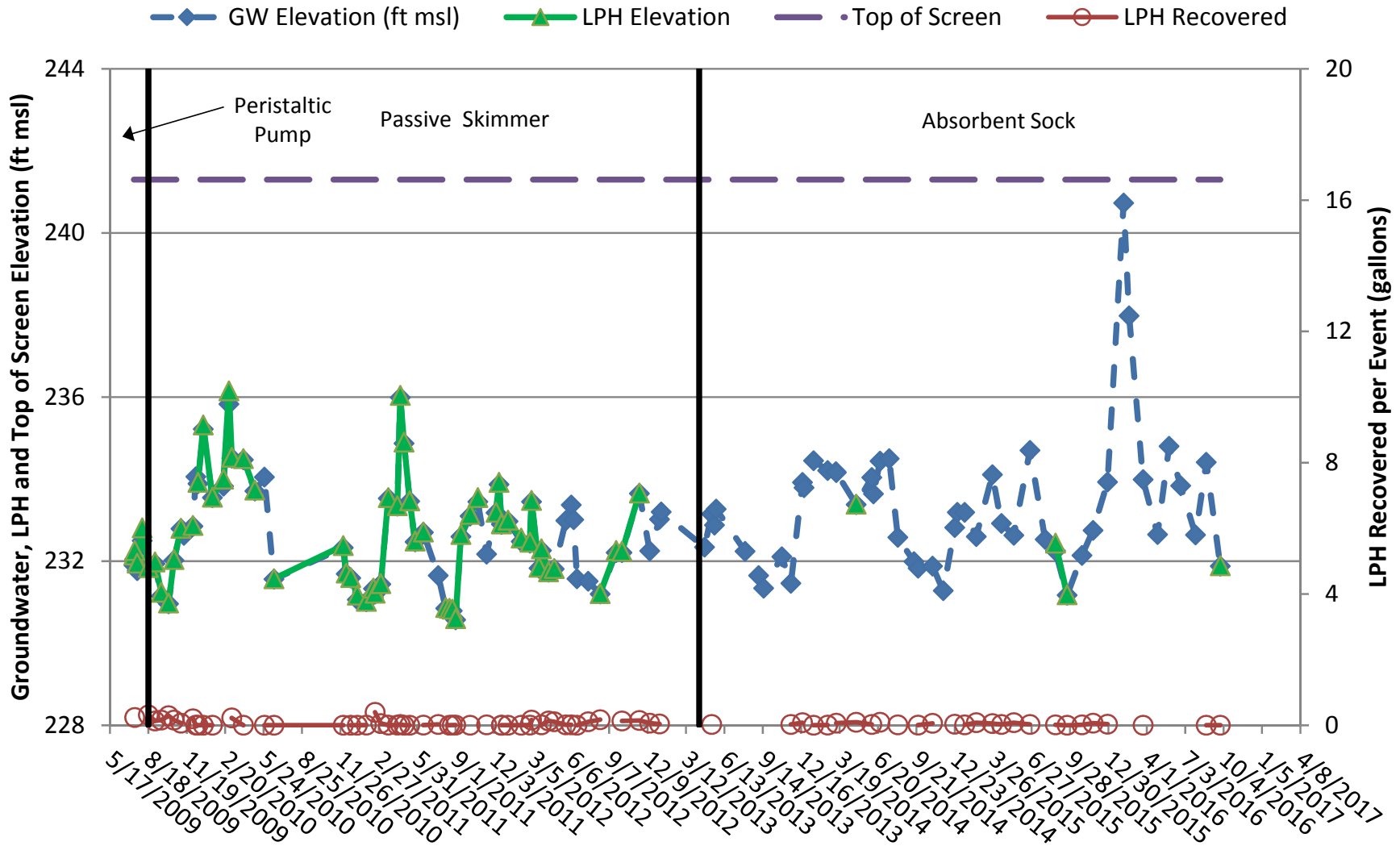
LPH and Groundwater Elevations and LPH Recovery: MW-26
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



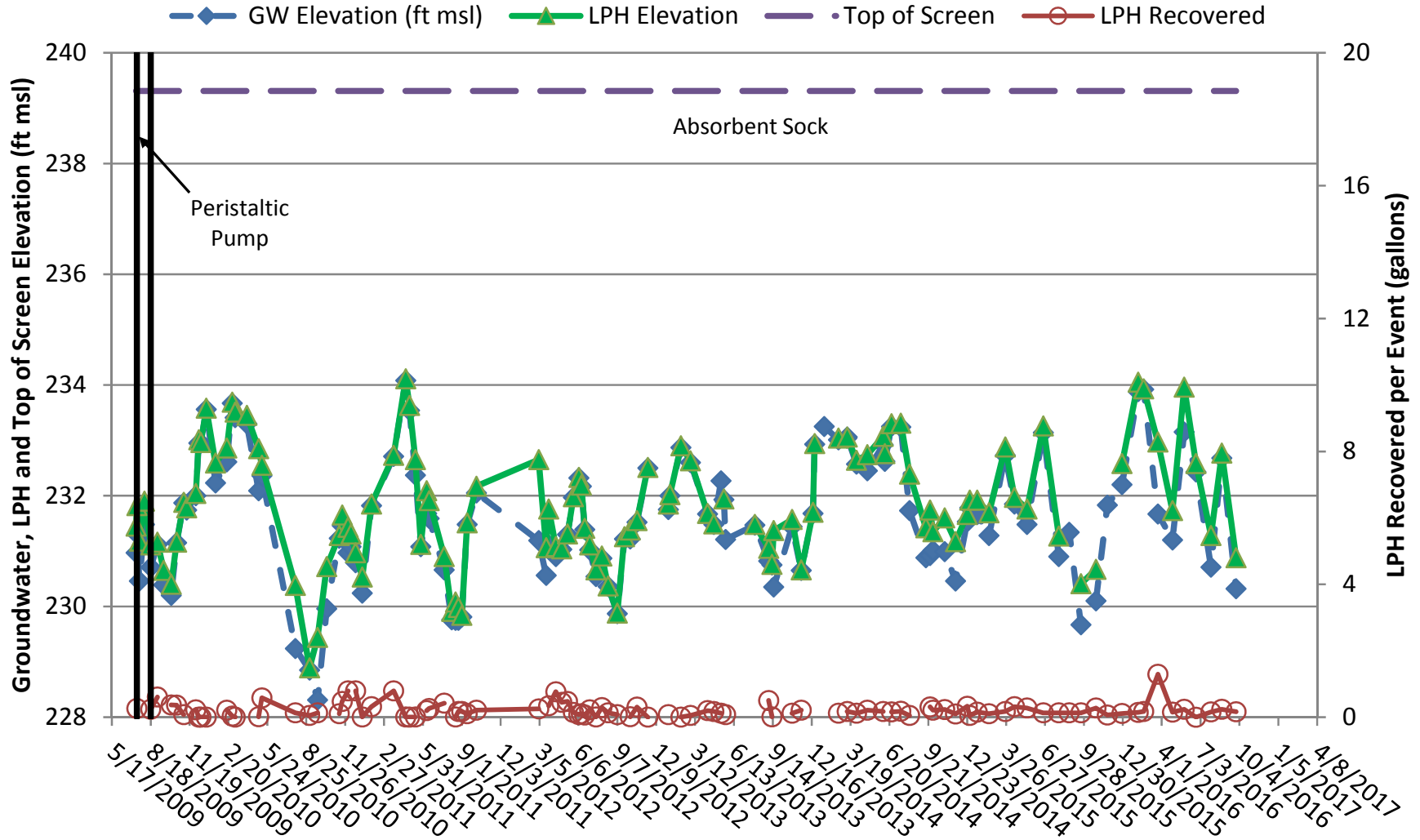
LPH and Groundwater Elevations and LPH Recovery: MW-28
 July 12, 2009 through September 26, 2016
 CSXT Brunswick Yard, Brunswick, Maryland



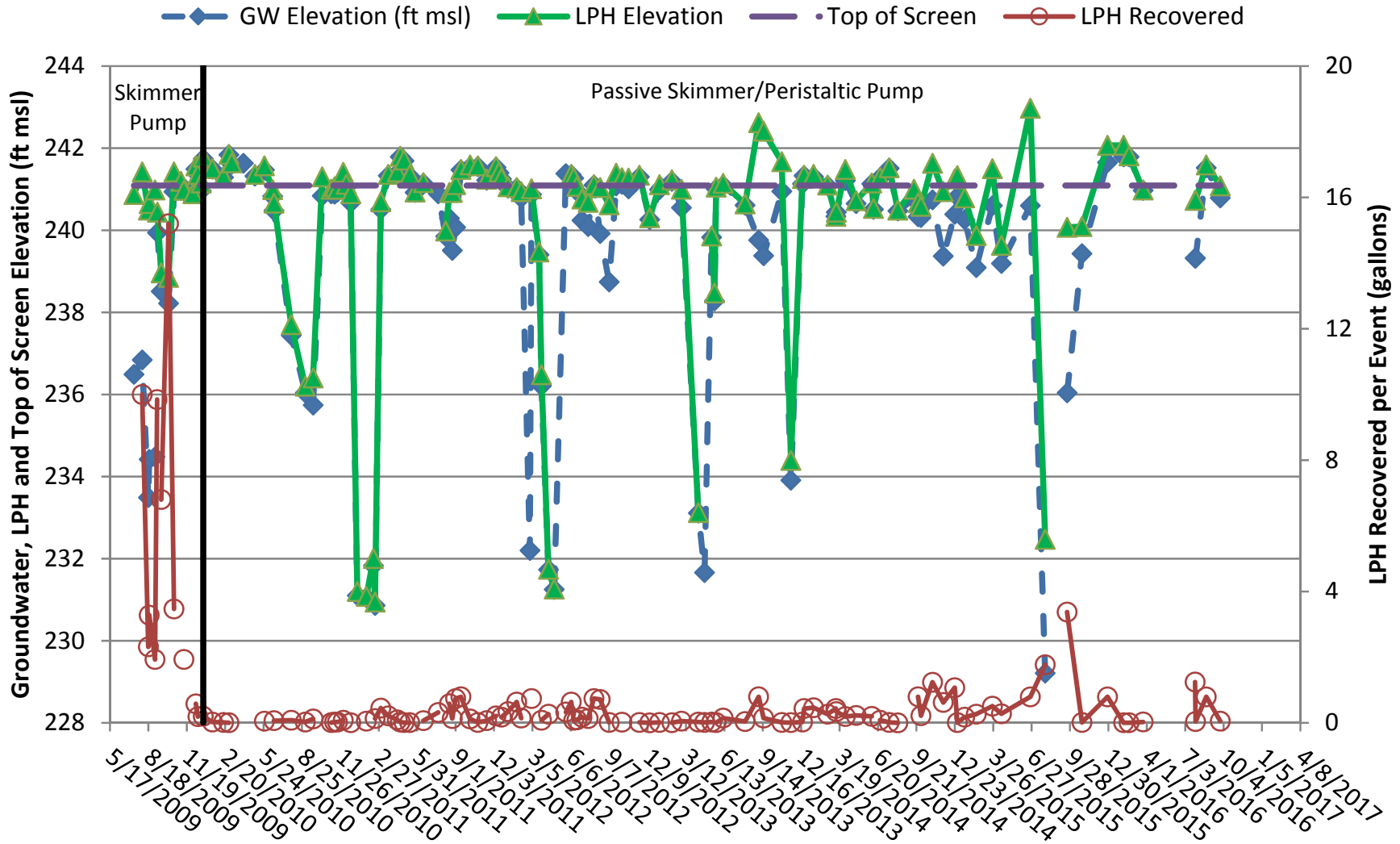
LPH and Groundwater Elevations and LPH Recovery: MW-32
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



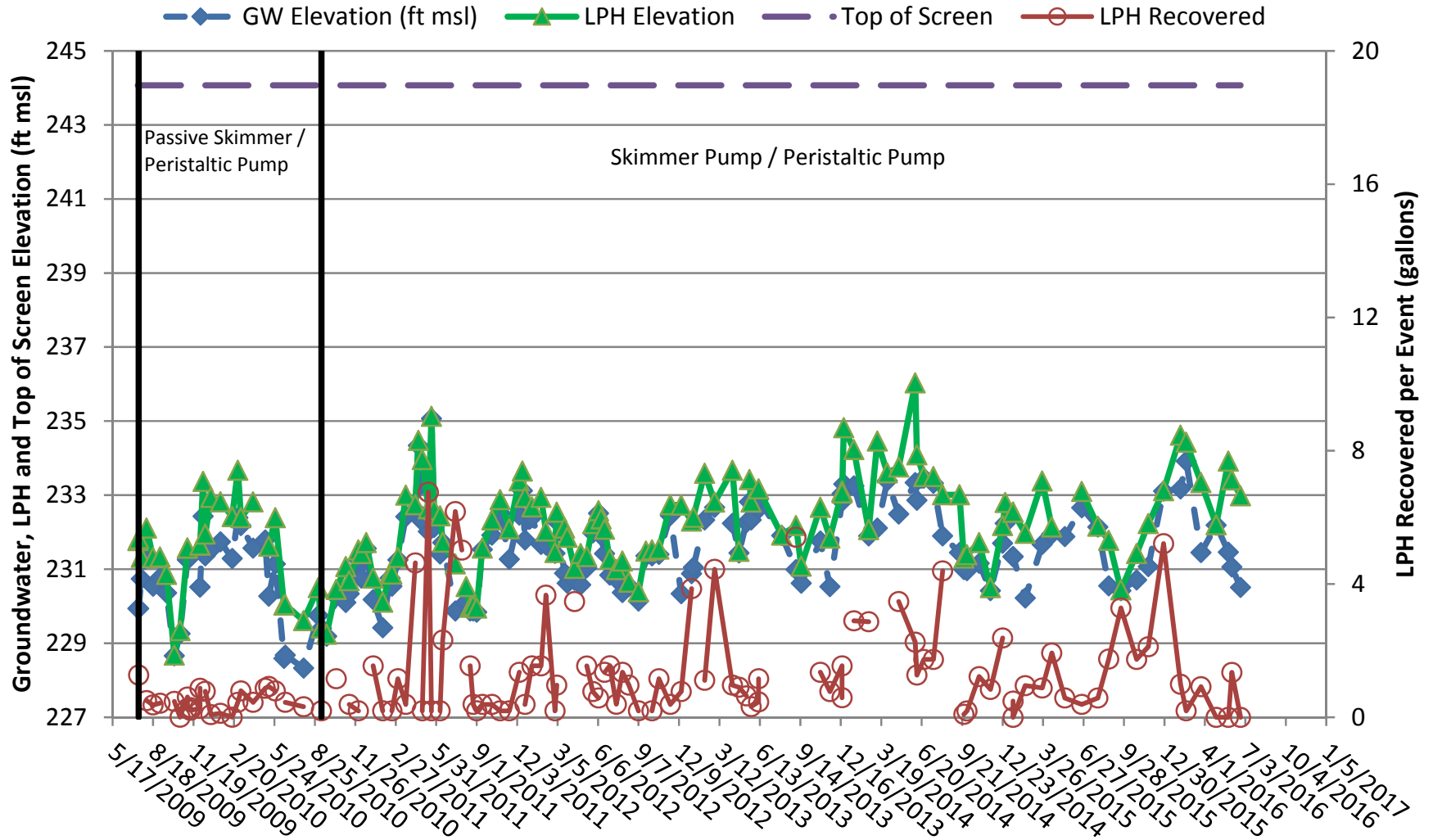
LPH and Groundwater Elevations and LPH Recovery: MW-37
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



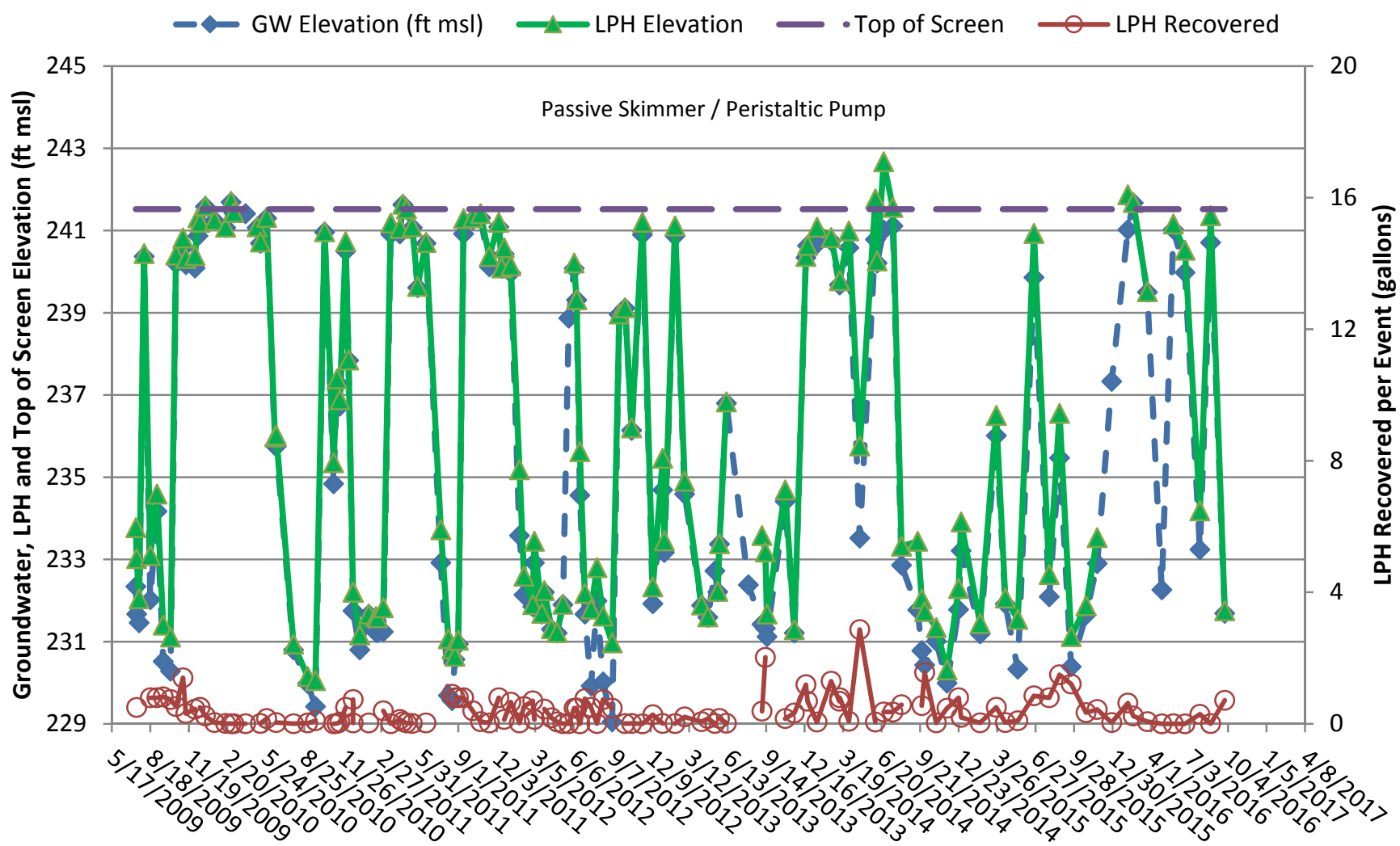
LPH and Groundwater Elevations and LPH Recovery: MW-38
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



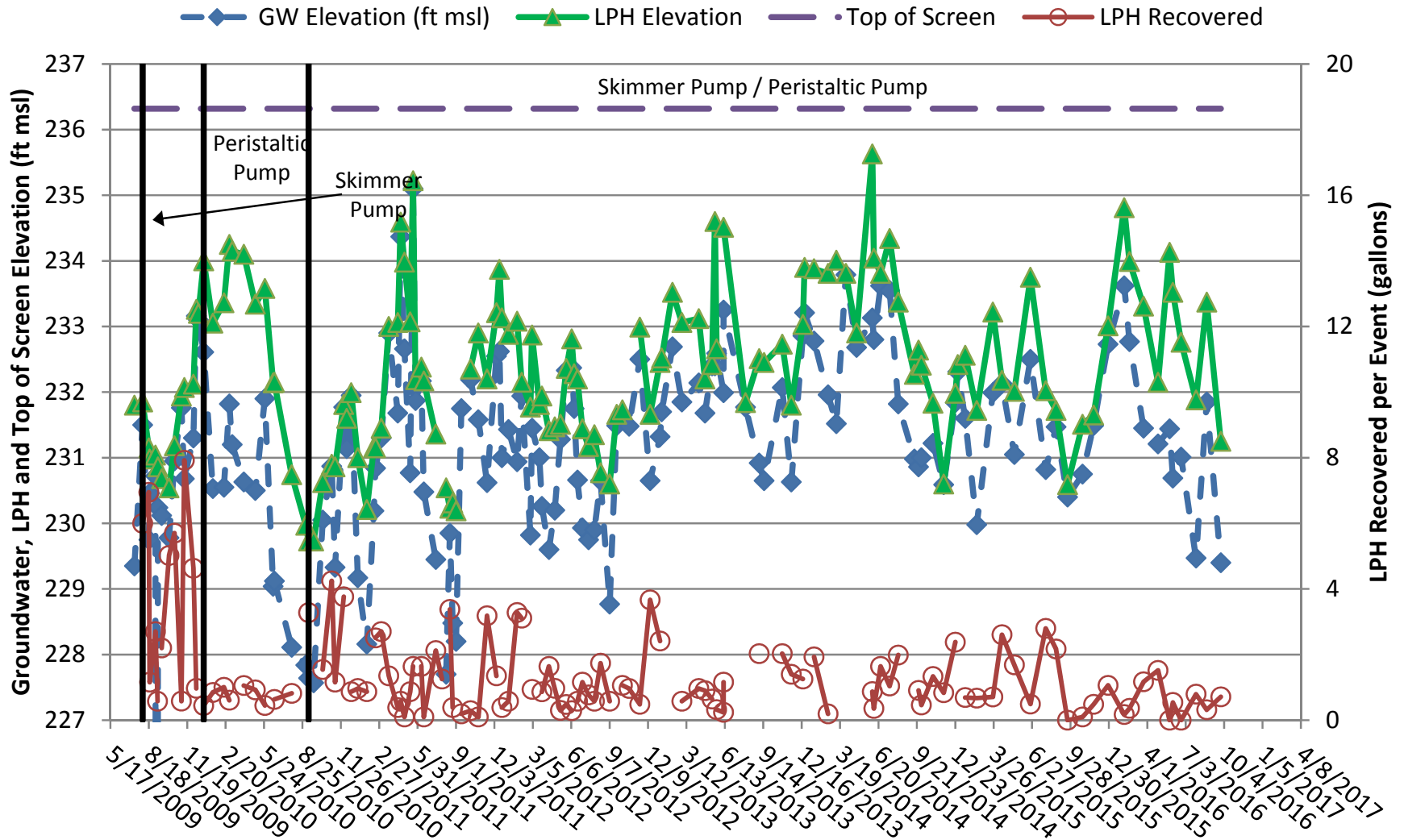
LPH and Groundwater Elevations and LPH Recovery: MW-41
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



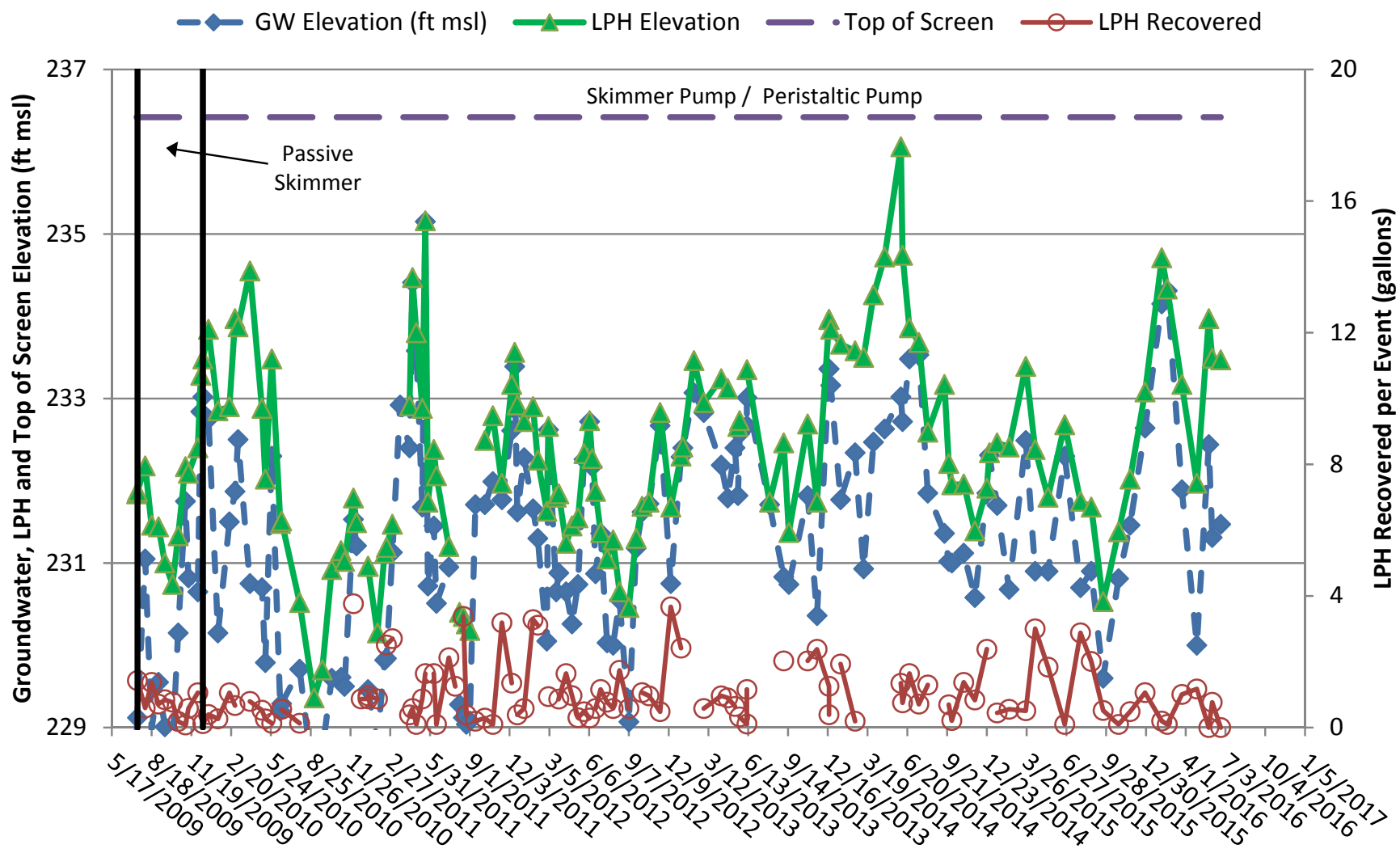
LPH and Groundwater Elevations and LPH Recovery: MW-49
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



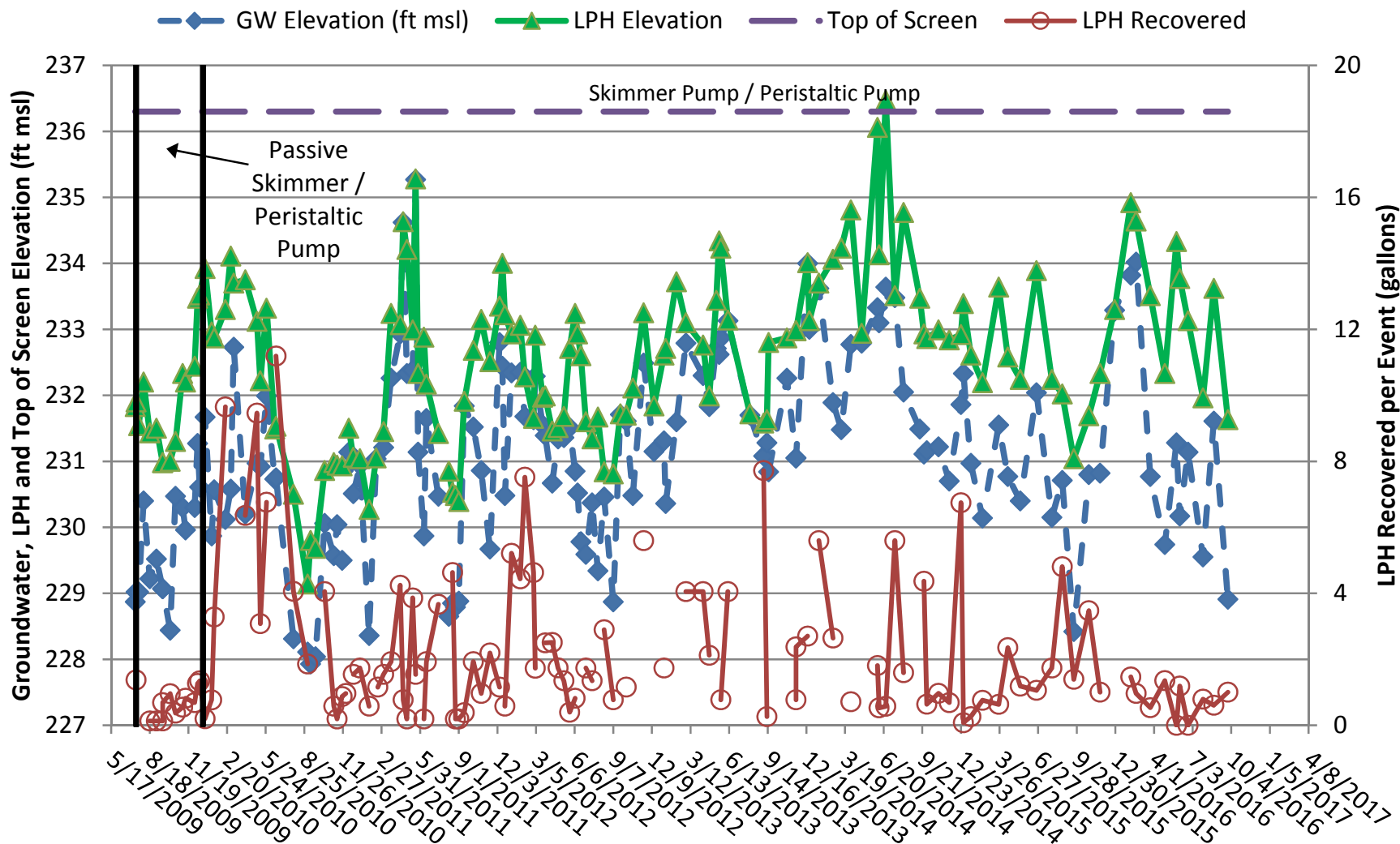
LPH and Groundwater Elevations and LPH Recovery: MW-53
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



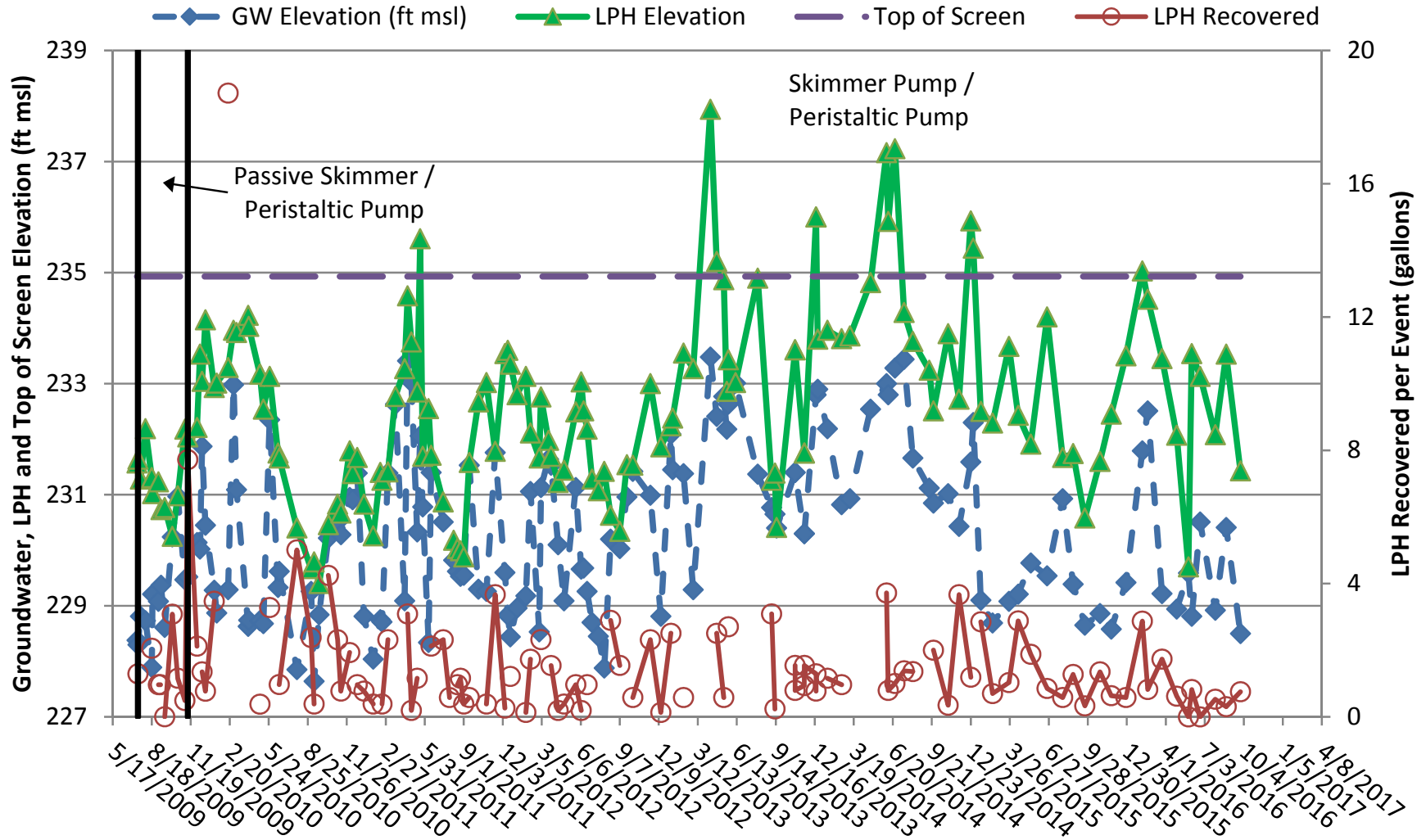
LPH and Groundwater Elevations and LPH Recovery: MW-54
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



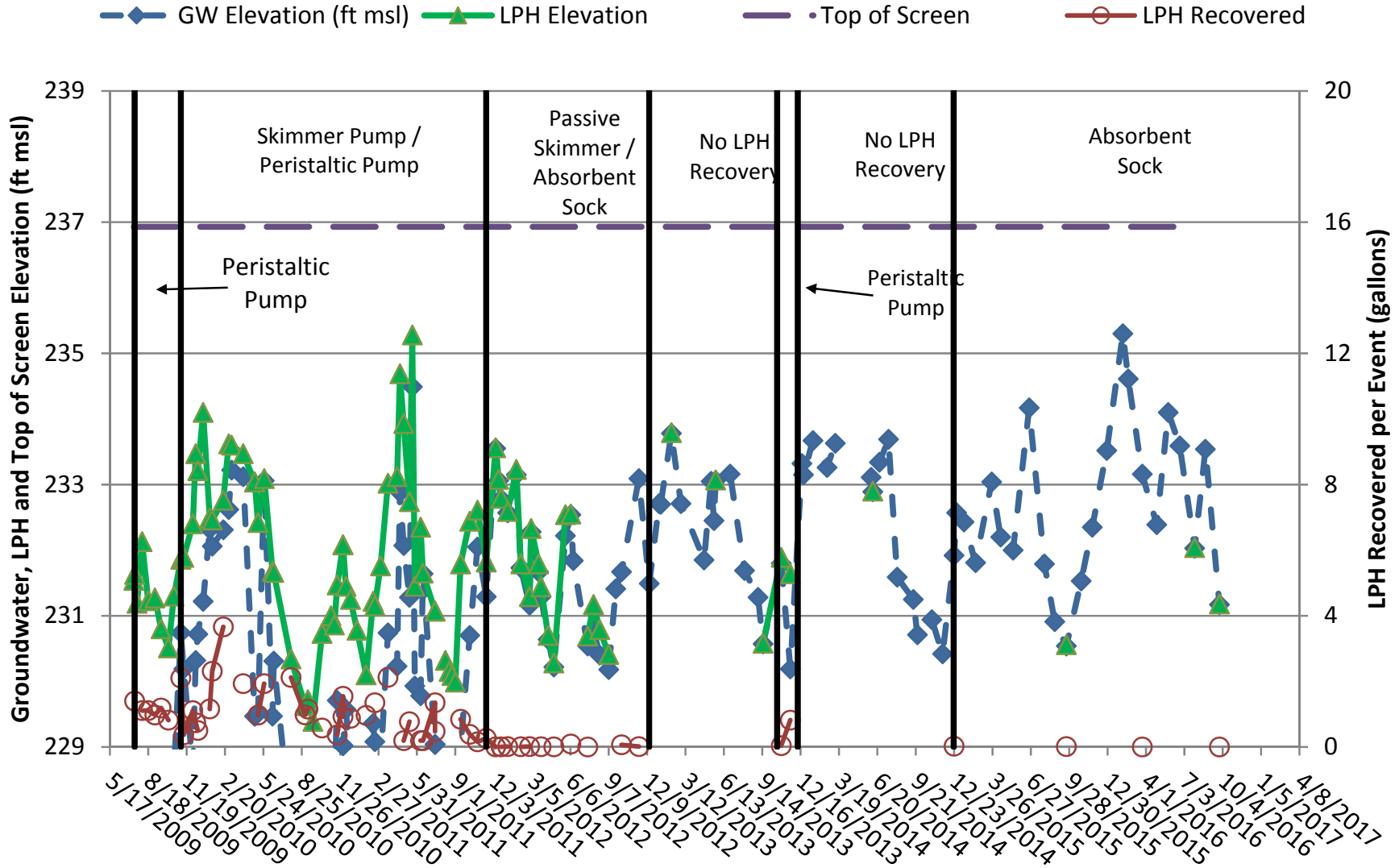
LPH and Groundwater Elevations and LPH Recovery: MW-55
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



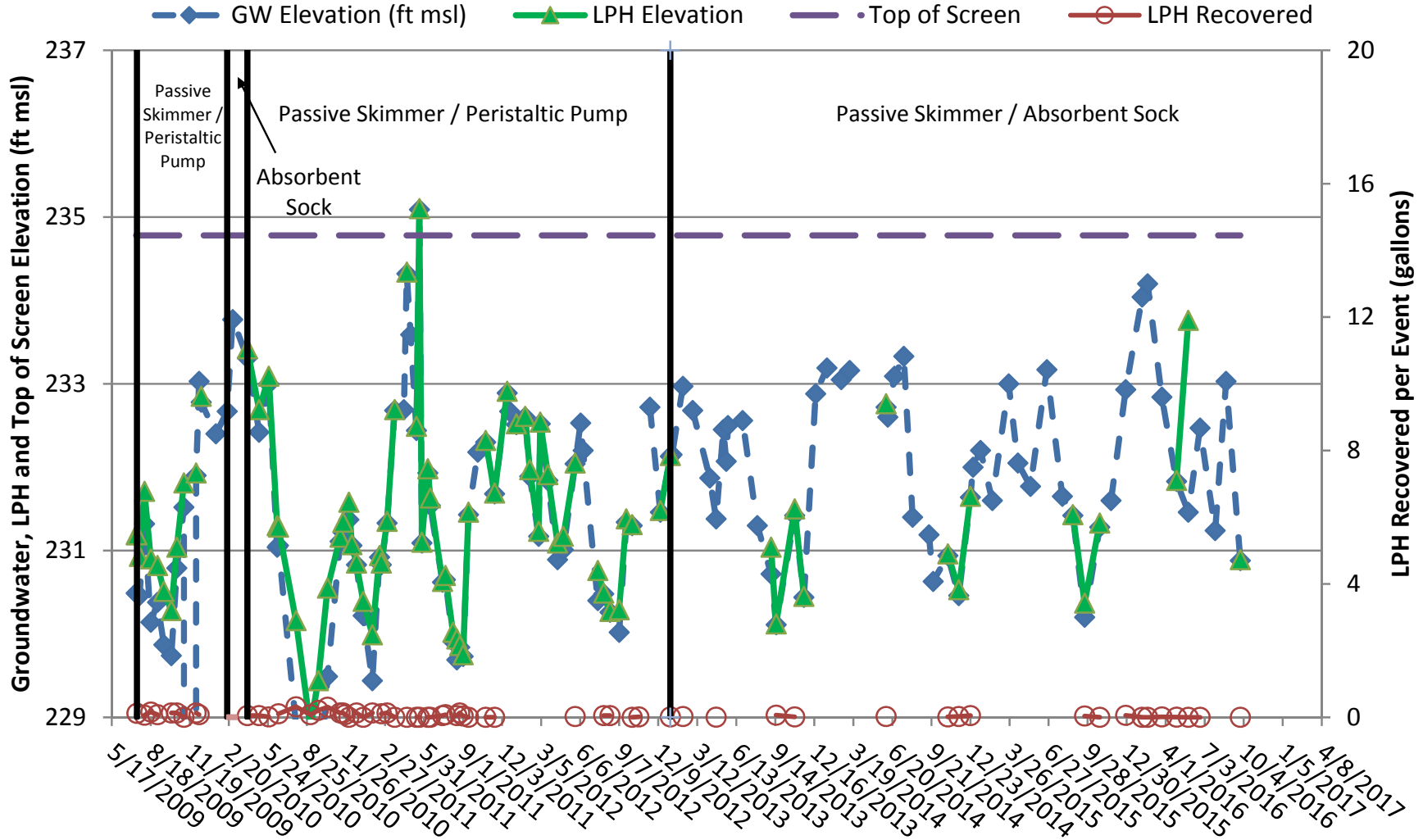
LPH and Groundwater Elevations and LPH Recovery: MW-56
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



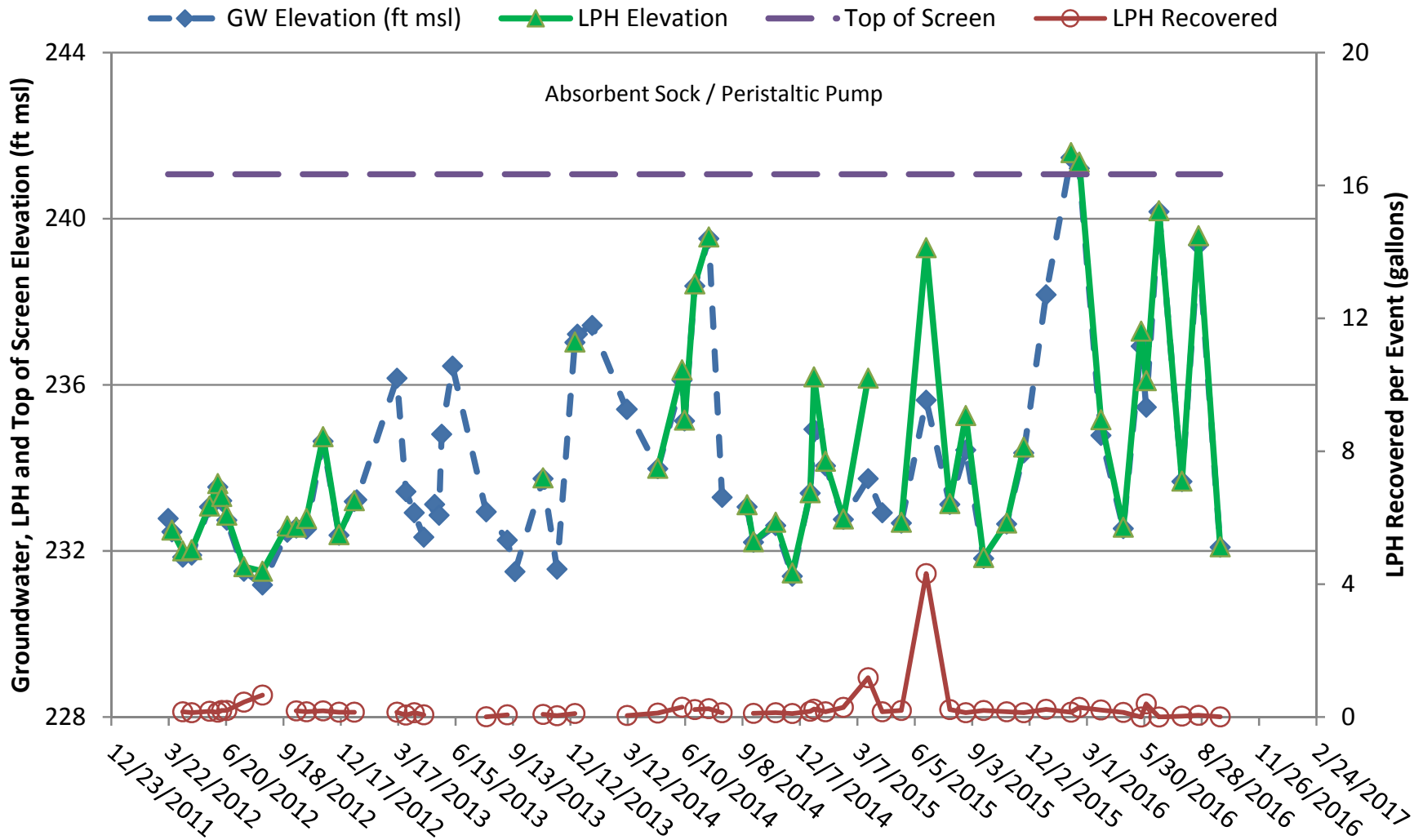
LPH and Groundwater Elevations and LPH Recovery: MW-57
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



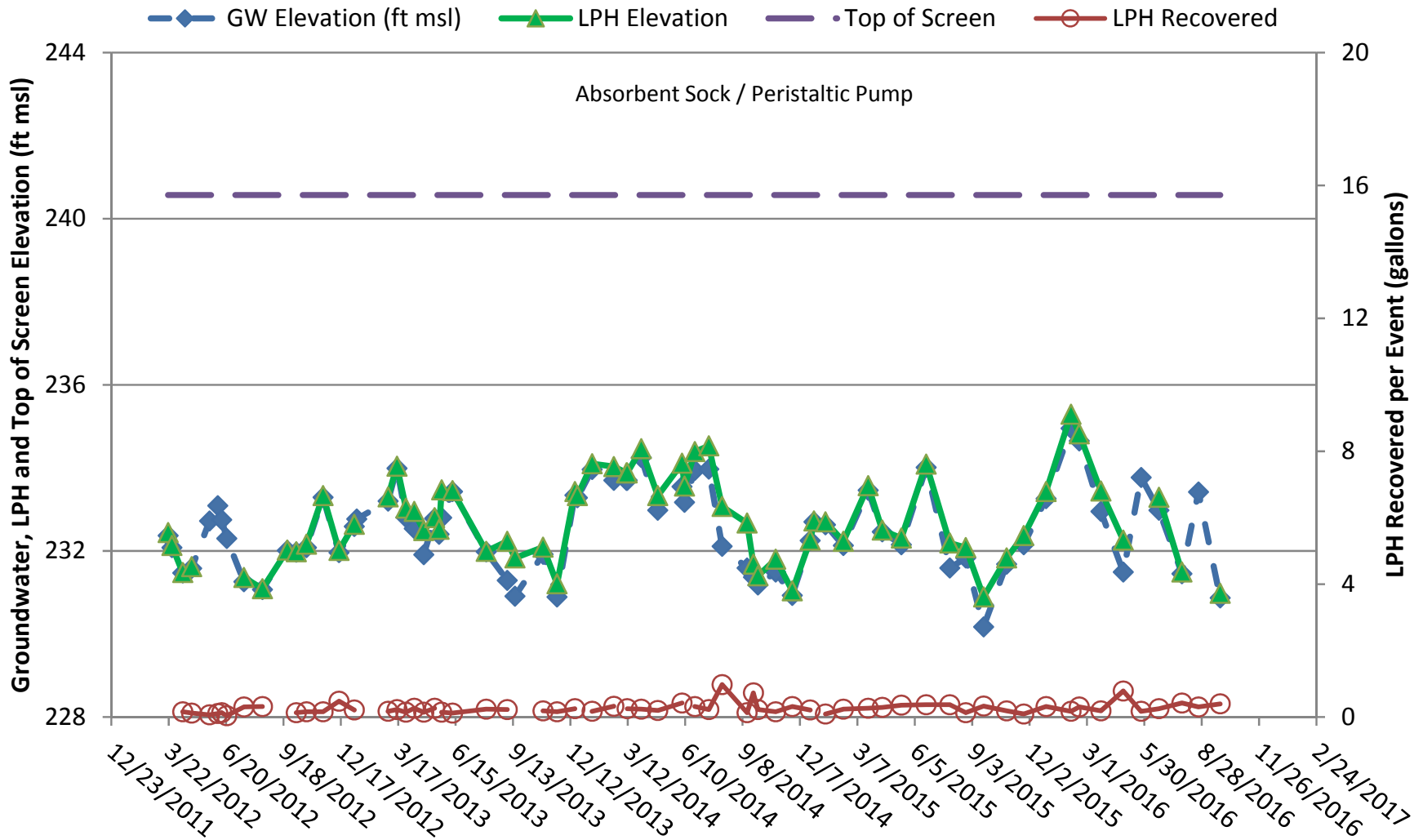
LPH and Groundwater Elevations and LPH Recovery: MW-58
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



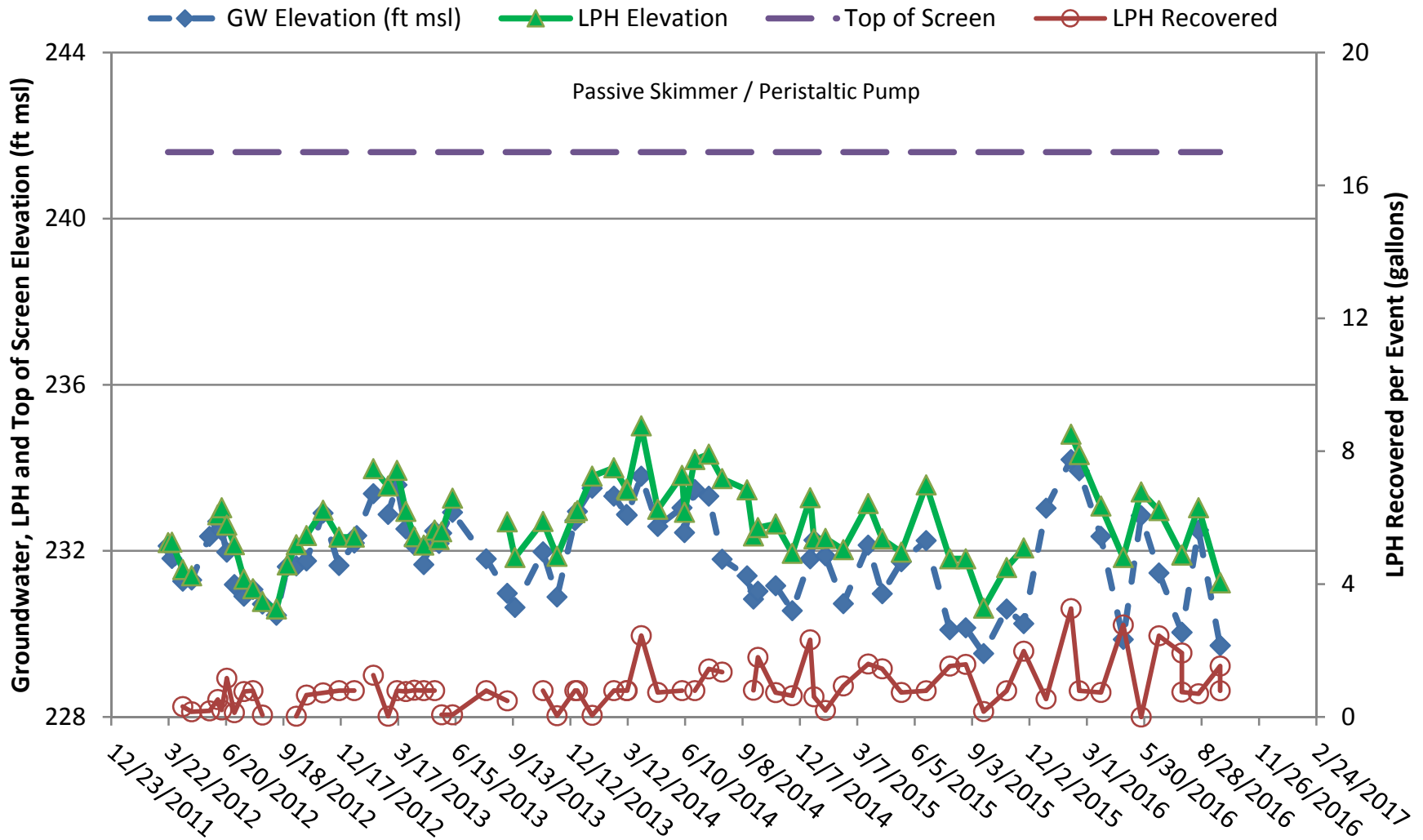
LPH and Groundwater Elevations and LPH Recovery: MW-59
March 21, 2012 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



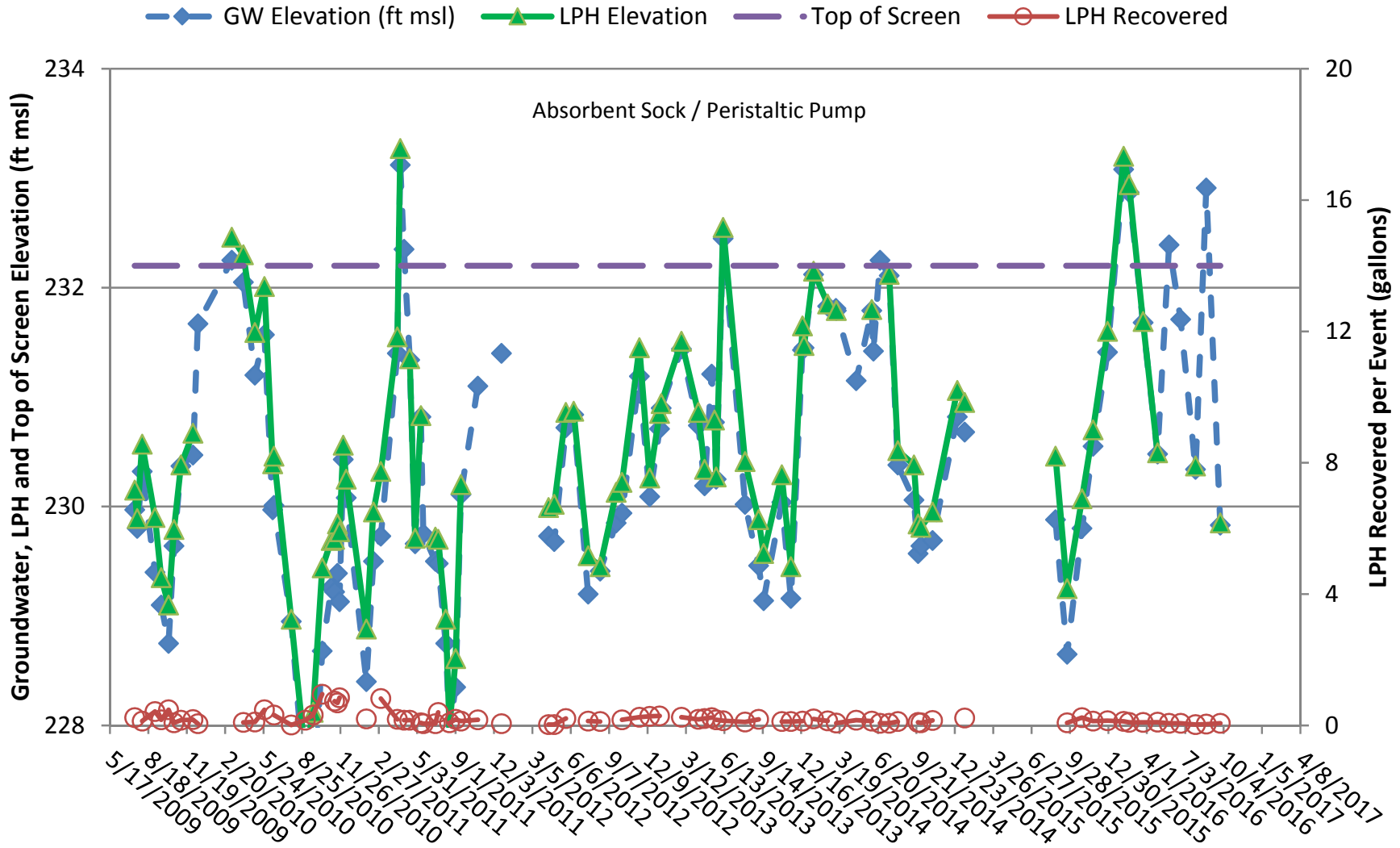
LPH and Groundwater Elevations and LPH Recovery: MW-60
March 21, 2012 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



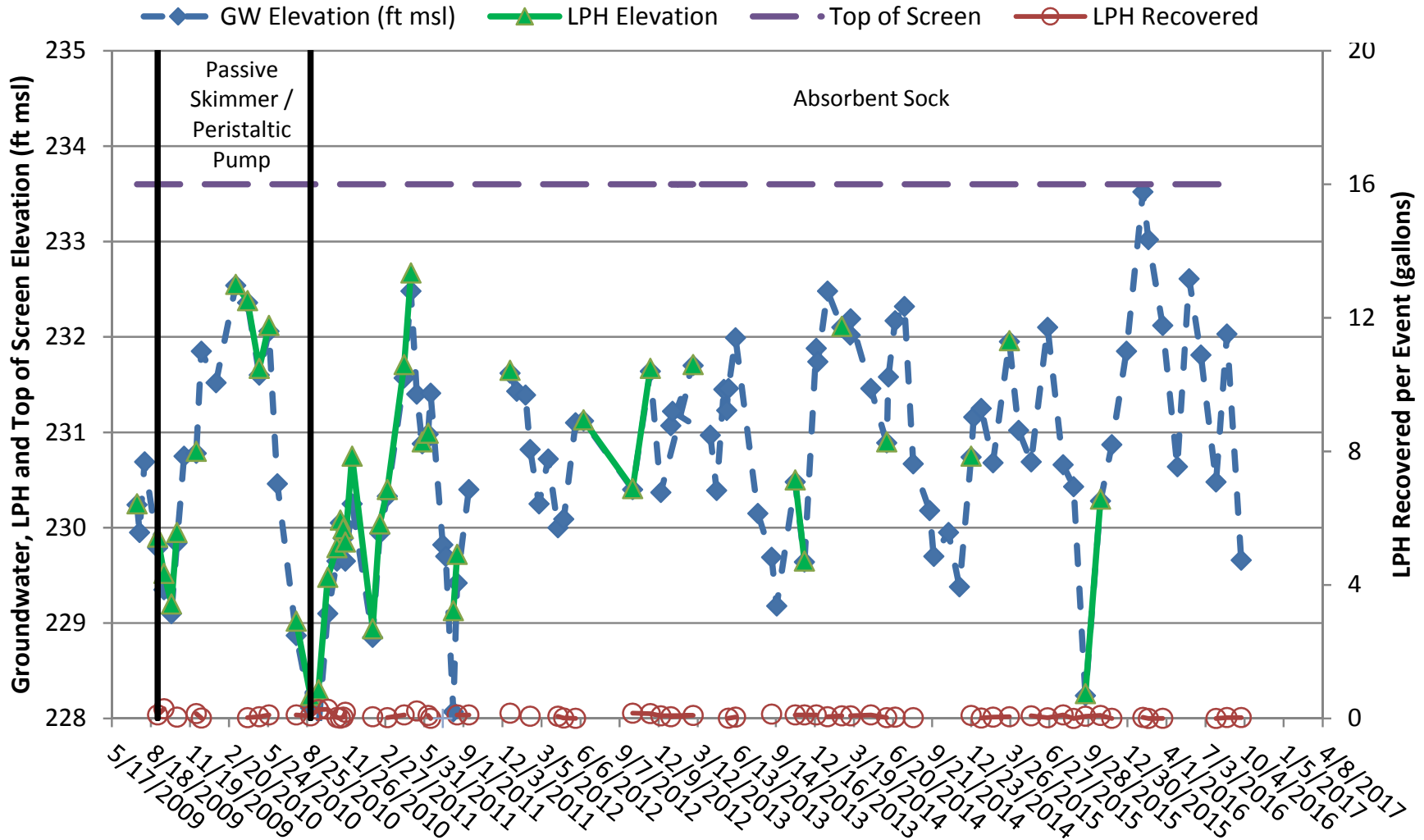
LPH and Groundwater Elevations and LPH Recovery: MW-63
March 21, 2012 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



LPH and Groundwater Elevations and LPH Recovery: EW-3
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



LPH and Groundwater Elevations and LPH Recovery: EW-5
July 12, 2009 through September 26, 2016
CSXT Brunswick Yard, Brunswick, Maryland



APPENDIX E

MAROS Input and Output



Appendix E
 MAROS Output
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



Well	Source/Tail	COC	Number of samples	Number of detects	Coeff_Variation	MK_Statistic	Conf_Trend	All samples ND?	Conc_Trend	Ratio of Detections	Corrected Concentration Trend
CSXT MW-01	S	PHC as DIESEL FUEL	18	17	0.971142601	-54	0.978	No	D	94%	D
CSXT MW-03	T	PHC as DIESEL FUEL	34	17	1.102100219	-7	0.534	No	NT	50%	NT
CSXT MW-04	T	PHC as DIESEL FUEL	10	8	1.702605792	-23	0.977	No	D	80%	D
CSXT MW-05	T	PHC as DIESEL FUEL	18	18	1.222238851	-20	0.7615	No	NT	100%	NT
CSXT MW-06	T	PHC as DIESEL FUEL	6	6	0.800134557	5	0.765	No	NT	100%	NT
CSXT MW-08	T	PHC as DIESEL FUEL	20	5	1.069659678	-67	0.9845	No	D	25%	N/A
CSXT MW-09	T	PHC as DIESEL FUEL	20	10	1.454079043	3	0.5255	No	NT	50%	NT
CSXT MW-20	T	PHC as DIESEL FUEL	5	1	0.450748562	0	0.408	No	S	20%	N/A
CSXT MW-21	T	PHC as DIESEL FUEL	6	6	0.820432327	-7	0.864	No	S	100%	S
CSXT MW-22	T	PHC as DIESEL FUEL	20	20	0.449251712	-33	0.8305	No	PD	100%	PD
CSXT MW-24	T	PHC as DIESEL FUEL	17	16	0.982600823	13	0.673	No	NT	94%	NT
CSXT MW-25	T	PHC as DIESEL FUEL	20	20	0.549557751	5	0.5475	No	NT	100%	NT
CSXT MW-27	T	PHC as DIESEL FUEL	5	5	1.27827101	-6	0.883	No	NT	100%	NT
CSXT MW-29	T	PHC as DIESEL FUEL	17	17	1.104487401	-50	0.9685	No	D	100%	D
CSXT MW-31	T	PHC as DIESEL FUEL	4	4	0.612464064	-4	0.833	No	S	100%	S
CSXT MW-35	T	PHC as DIESEL FUEL	5	5	0.321858329	0	0.408	No	S	100%	S
CSXT MW-43	T	PHC as DIESEL FUEL	18	18	0.675861532	-12	0.648	No	S	100%	S
CSXT MW-50	T	PHC as DIESEL FUEL	4	3	1.743088639	-2	0.625	No	NT	75%	NT
CSXT MW-51	T	PHC as DIESEL FUEL	18	17	0.645781022	-55	0.971	No	D	94%	D
CSXT MW-52	T	PHC as DIESEL FUEL	4	4	0.434061096	-2	0.625	No	S	100%	S
CSXT MW-64	T	PHC as DIESEL FUEL	14	14	0.930876339	-51	0.9885	No	D	100%	D
CSXT MW-68	T	PHC as DIESEL FUEL	12	12	0.7522394	-28	0.929	No	PD	100%	PD
CSXT MW-69	T	PHC as DIESEL FUEL	12	12	2.020156311	7	0.626	No	NT	100%	NT
CSXT MW-71	T	PHC as DIESEL FUEL	5	5	0.431245322	-9	0.881	No	D	100%	D
NPS MW-01	T	PHC as DIESEL FUEL	22	19	0.877317018	41	0.853	No	NT	86%	NT
NPS MW-02	T	PHC as DIESEL FUEL	22	21	0.501020531	-26	0.7435	No	S	95%	S
NPS MW-03	T	PHC as DIESEL FUEL	9	5	0.946874725	-16	0.94	No	PD	56%	PD
NPS MW-04	T	PHC as DIESEL FUEL	22	22	0.888439657	-38	0.8335	No	S	100%	S
NPS MW-05	T	PHC as DIESEL FUEL	22	19	0.621477628	-44	0.8705	No	S	86%	S
NPS MW-10	T	PHC as DIESEL FUEL	9	7	0.627217326	-16	0.94	No	PD	78%	PD
NPS MW-11	T	PHC as DIESEL FUEL	8	4	1.063005988	-20	0.993	No	D	50%	D
NPS MW-12	T	PHC as DIESEL FUEL	9	8	0.570939925	-18	0.962	No	D	89%	D
NPS MW-13	T	PHC as DIESEL FUEL	22	20	0.463352589	31	0.784	No	NT	91%	NT
NPS MW-14	T	PHC as DIESEL FUEL	22	21	0.54079533	-3	0.521	No	S	95%	S
NPS MW-15	T	PHC as DIESEL FUEL	9	9	0.437504181	-26	0.997	No	D	100%	D
NPS MW-16	T	PHC as DIESEL FUEL	23	22	0.564694915	1	0.5	No	S	96%	S
NPS MW-17	T	PHC as DIESEL FUEL	8	5	0.67582842	-12	0.911	No	PD	63%	PD

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-01	100	100	PHC as DIESEL FUEL	7/5/1994	9.7	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	8/29/1995	19	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	3/10/1997	13	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	3/12/1998	25.7	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	11/9/1999	7.56	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	4/11/2000	9.58	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	5/7/2002	37.3	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	5/15/2003	2.51	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	5/7/2004	<0.1U	mg/L	0.10	ND
CSXT MW-01	100	100	PHC as DIESEL FUEL	5/16/2005	0.75	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	6/6/2006	11	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	12/27/2006	12	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	3/5/2007	11	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	8/9/2007	3.7	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	12/5/2007	8.3	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	2/28/2008	3.8	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	05/23/08	0.91	mg/L	1.00	
CSXT MW-01	100	100	PHC as DIESEL FUEL	8/6/2008	1.9	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	7/5/1994	0.83	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	8/29/1995	<0.6U	mg/L	0.60	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/10/1997	0.47	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/12/1998	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	11/9/1999	0.54	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	4/11/2000	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/16/2001	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/7/2002	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/15/2003	<0.11U	mg/L	0.11	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/6/2004	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/16/2005	<0.095U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	6/6/2006	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	12/14/2006	<0.094U	mg/L	0.09	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/5/2007	<0.097U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/22/2007	<0.096U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	8/9/2007	0.18	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	12/3/2007	<0.098U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	12/3/2007	<0.098U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	2/26/2008	0.22	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	5/21/2008	<0.04U	mg/L	0.04	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	8/7/2008	<0.043U	mg/L	0.04	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/3/2009	<0.47U	mg/L	0.47	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	9/8/2009	0.16	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/9/2010	0.18	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/9/2010	0.16	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	9/23/2010	0.26	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	9/23/2010	0.27	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	2/16/2011	0.23	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	8/10/2011	0.13	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	3/22/2012	0.14	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	9/25/2012	<0.1U	mg/L	0.10	ND
CSXT MW-03	100	100	PHC as DIESEL FUEL	1/14/2013	0.0	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-03	100	100	PHC as DIESEL FUEL	9/17/2013	0.1	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	03/13/14	0.1	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	09/17/14	0.1	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	03/26/15	0.1	mg/L	1.00	
CSXT MW-03	100	100	PHC as DIESEL FUEL	03/25/16	0.18	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	7/5/1994	150	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	7/5/1994	210	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	3/12/1998	78.8	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	11/9/1999	53.4	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	4/11/2000	13.1	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	5/16/2001	1.27	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	5/7/2002	2.66	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	5/15/2003	<0.08U	mg/L	0.08	ND
CSXT MW-04	100	100	PHC as DIESEL FUEL	5/6/2004	<0.11U	mg/L	0.11	ND
CSXT MW-04	100	100	PHC as DIESEL FUEL	5/16/2005	3.9	mg/L	1.00	
CSXT MW-04	100	100	PHC as DIESEL FUEL	12/7/2007	6.7	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	8/29/1995	4.3	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	8/29/1995	4.3	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	3/10/1997	1.16	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	3/12/1998	77.3	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	4/11/2000	28.9	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/16/2001	13.9	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/7/2002	36.7	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/15/2003	8.22	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/6/2004	2.31	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/16/2005	11	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/16/2005	20	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	6/6/2006	21	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	12/14/2006	14	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	3/5/2007	9	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/22/2007	1.5	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/22/2007	1.5	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	8/9/2007	2.5	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	12/5/2007	3.4	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	2/26/2008	10	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	5/22/2008	6.2	mg/L	1.00	
CSXT MW-05	100	100	PHC as DIESEL FUEL	8/6/2008	14	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	8/29/1995	6.8	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	11/9/1999	251	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	4/11/2000	79.4	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	5/16/2001	45	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	5/7/2002	150	mg/L	1.00	
CSXT MW-06	100	100	PHC as DIESEL FUEL	5/15/2003	250	mg/L	1.00	
CSXT MW-08	100	100	PHC as DIESEL FUEL	8/29/1995	<0.6U	mg/L	0.60	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	3/10/1997	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	3/12/1998	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	11/9/1999	0.42	mg/L	1.00	
CSXT MW-08	100	100	PHC as DIESEL FUEL	4/11/2000	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/16/2001	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/7/2002	<0.11U	mg/L	0.11	ND

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/15/2003	<0.12U	mg/L	0.12	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/7/2004	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/16/2005	0.14	mg/L	0.14	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	6/6/2006	<0.1U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	6/6/2006	<0.098U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	12/15/2006	0.097	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	2/28/2007	0.15	mg/L	1.00	
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/24/2007	<0.097U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	8/9/2007	0.19	mg/L	1.00	
CSXT MW-08	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	2/27/2008	0.14	mg/L	1.00	
CSXT MW-08	100	100	PHC as DIESEL FUEL	5/21/2008	<0.041U	mg/L	0.04	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	8/7/2008	<0.04U	mg/L	0.04	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	8/7/2008	<0.04U	mg/L	0.04	ND
CSXT MW-08	100	100	PHC as DIESEL FUEL	1/15/2013	0.0	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	8/29/1995	<0.6U	mg/L	0.06	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	3/10/1997	<0.1U	mg/L	0.10	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	3/12/1998	<0.1U	mg/L	0.10	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	11/9/1999	1.5	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	4/11/2000	1.69	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/16/2001	<0.1U	mg/L	0.10	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/7/2002	<0.1U	mg/L	0.10	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/15/2003	<0.12U	mg/L	0.12	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/7/2004	<0.11U	mg/L	0.11	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/16/2005	0.38	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	6/6/2006	0.16	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	12/18/2006	0.39	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	2/28/2007	0.68	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/24/2007	0.56	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	8/10/2007	0.48	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	2/27/2008	0.15	mg/L	1.00	
CSXT MW-09	100	100	PHC as DIESEL FUEL	5/21/2008	<0.041U	mg/L	0.04	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	8/7/2008	<0.039U	mg/L	0.04	ND
CSXT MW-09	100	100	PHC as DIESEL FUEL	1/15/2013	0.2	mg/L	1.00	
CSXT MW-20	100	100	PHC as DIESEL FUEL	12/7/2007	<0.098U	mg/L	0.10	ND
CSXT MW-20	100	100	PHC as DIESEL FUEL	3/3/2008	<0.039U	mg/L	0.04	ND
CSXT MW-20	100	100	PHC as DIESEL FUEL	5/27/2008	<0.038U	mg/L	0.04	ND
CSXT MW-20	100	100	PHC as DIESEL FUEL	8/11/2008	<0.044U	mg/L	0.04	ND
CSXT MW-20	100	100	PHC as DIESEL FUEL	1/16/2013	0.0	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	6/26/2007	2.2	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	12/5/2007	5	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	2/26/2008	0.57	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	5/23/2008	1.8	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	8/6/2008	1.7	mg/L	1.00	
CSXT MW-21	100	100	PHC as DIESEL FUEL	1/17/2013	0.6	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	6/25/2007	17	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	8/9/2007	9.1	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	12/5/2007	8.5	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	2/26/2008	8	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-22	100	100	PHC as DIESEL FUEL	5/22/2008	6	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	8/7/2008	3.3	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	3/3/2009	7.5	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	9/4/2009	8.4	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	3/9/2010	6.8	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	9/23/2010	7.6	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	2/16/2011	7.3	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	8/11/2011	5.7	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	3/26/2012	7.3	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	9/25/2012	4.8	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	1/15/2013	4.1	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	9/17/2013	8.5	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	03/13/14	6.7	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	09/17/14	3.3	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	03/26/15	16.0	mg/L	1.00	
CSXT MW-22	100	100	PHC as DIESEL FUEL	03/25/16	13	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	6/25/2007	<0	mg/L	0.10	ND
CSXT MW-24	100	100	PHC as DIESEL FUEL	12/6/2007	2	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	2/28/2008	0.26	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	5/27/2008	0.26	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	8/11/2008	0.31	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	3/3/2009	0.58	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	9/8/2009	0.63	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	3/9/2010	0.25	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	2/16/2011	0.62	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	8/11/2011	2.3	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	3/27/2012	2.1	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	9/25/2012	1.3	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	9/17/2013	0.4	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	03/14/14	0.3	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	09/18/14	0.2	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	03/25/15	0.31	mg/L	1.00	
CSXT MW-24	100	100	PHC as DIESEL FUEL	03/25/16	0.53	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	6/25/2007	3.8	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	8/8/2007	3	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	12/4/2007	0.79	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	2/26/2008	2	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	5/22/2008	1.9	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	8/8/2008	1.8	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	3/3/2009	2	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	9/8/2009	8	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	3/9/2010	5.5	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	9/23/2010	7.1	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	2/16/2011	5.5	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	8/10/2011	3.8	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	3/21/2012	3.4	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	9/25/2012	4.9	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	1/14/2013	1.2	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	9/17/2013	2.6	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	03/12/14	2.6	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-25	100	100	PHC as DIESEL FUEL	09/17/14	2.7	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	03/25/15	2.2	mg/L	1.00	
CSXT MW-25	100	100	PHC as DIESEL FUEL	03/25/16	3.3	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	6/26/2007	6.8	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	12/7/2007	1.5	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	2/28/2008	0.68	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	2/28/2008	0.94	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	5/27/2008	0.36	mg/L	1.00	
CSXT MW-27	100	100	PHC as DIESEL FUEL	8/7/2008	0.96	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	12/5/2007	7.1	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	2/26/2008	4.1	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	5/23/2008	5.7	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	8/6/2008	5.9	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	3/3/2009	18	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	9/4/2009	2.8	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	9/22/2010	5.9	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	2/16/2011	23	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	8/10/2011	2.1	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	3/26/2012	2	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	9/25/2012	2.0	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	1/24/2013	29.0	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	9/17/2013	4.8	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	03/14/14	4.7	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	09/17/14	2.1	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	03/26/15	4.0	mg/L	1.00	
CSXT MW-29	100	100	PHC as DIESEL FUEL	03/25/16	1.8	mg/L	1.00	
CSXT MW-31	100	100	PHC as DIESEL FUEL	12/6/2007	2.2	mg/L	1.00	
CSXT MW-31	100	100	PHC as DIESEL FUEL	2/28/2008	1.4	mg/L	1.00	
CSXT MW-31	100	100	PHC as DIESEL FUEL	5/27/2008	0.38	mg/L	1.00	
CSXT MW-31	100	100	PHC as DIESEL FUEL	8/6/2008	1	mg/L	1.00	
CSXT MW-35	100	100	PHC as DIESEL FUEL	12/4/2007	0.5	mg/L	1.00	
CSXT MW-35	100	100	PHC as DIESEL FUEL	2/26/2008	0.57	mg/L	1.00	
CSXT MW-35	100	100	PHC as DIESEL FUEL	5/22/2008	0.4	mg/L	1.00	
CSXT MW-35	100	100	PHC as DIESEL FUEL	8/8/2008	0.28	mg/L	1.00	
CSXT MW-35	100	100	PHC as DIESEL FUEL	2/6/2013	0.7	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	12/7/2007	3.3	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	12/7/2007	2.6	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	2/29/2008	0.93	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	5/23/2008	0.83	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	8/11/2008	0.84	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	3/4/2009	0.6	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	9/3/2009	1.4	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	3/9/2010	1.1	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	9/22/2010	1.1	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	2/15/2011	3.9	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	8/9/2011	0.89	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	3/23/2012	1.5	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	9/26/2012	2.6	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	1/16/2013	1.0	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	9/18/2013	0.5	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-43	100	100	PHC as DIESEL FUEL	03/13/14	1.6	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	09/18/14	0.5	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	03/26/15	1.0	mg/L	1.00	
CSXT MW-43	100	100	PHC as DIESEL FUEL	03/24/16	1.2	mg/L	1.00	
CSXT MW-49	100	100	PHC as DIESEL FUEL	12/5/2007	7.9	mg/L	1.00	
CSXT MW-50	100	100	PHC as DIESEL FUEL	12/4/2007	5.4	mg/L	1.00	
CSXT MW-50	100	100	PHC as DIESEL FUEL	2/25/2008	0.27	mg/L	1.00	
CSXT MW-50	100	100	PHC as DIESEL FUEL	5/21/2008	<0.041U	mg/L	0.04	ND
CSXT MW-50	100	100	PHC as DIESEL FUEL	8/11/2008	0.29	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	12/6/2007	0.64	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	2/25/2008	0.37	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	5/28/2008	0.38	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	8/8/2008	<0.045U	mg/L	0.05	ND
CSXT MW-51	100	100	PHC as DIESEL FUEL	3/4/2009	0.2	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	9/8/2009	0.49	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	3/9/2010	0.22	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	9/23/2010	0.61	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	2/16/2011	0.48	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	8/10/2011	0.3	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	3/26/2012	0.31	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	9/25/2012	0.6	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	1/14/2013	0.1	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	9/17/2013	0.2	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	03/14/14	0.1	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	09/18/14	0.1	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	03/26/15	0.3	mg/L	1.00	
CSXT MW-51	100	100	PHC as DIESEL FUEL	03/25/16	0.15	mg/L	1.00	
CSXT MW-52	100	100	PHC as DIESEL FUEL	12/6/2007	0.9	mg/L	1.00	
CSXT MW-52	100	100	PHC as DIESEL FUEL	2/25/2008	1.2	mg/L	1.00	
CSXT MW-52	100	100	PHC as DIESEL FUEL	5/28/2008	1.1	mg/L	1.00	
CSXT MW-52	100	100	PHC as DIESEL FUEL	8/8/2008	0.34	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	4/3/2012	15	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	6/14/2012	7.6	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	9/26/2012	13	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	5/21/2013	6.5	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	9/19/2013	8.4	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	12/27/13	0.79	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	03/12/14	1.9	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	06/11/14	1.1	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	09/17/14	4.1	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	12/30/14	3	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	03/27/15	1.8	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	06/25/15	1.3	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	06/25/15	1.2	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	03/24/16	2.4	mg/L	1.00	
CSXT MW-64	100	100	PHC as DIESEL FUEL	06/23/16	1.9	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	1/17/2013	6.0	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	5/21/2013	20.0	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	9/19/2013	17.0	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	12/27/13	2.1	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
CSXT MW-68	100	100	PHC as DIESEL FUEL	03/12/14	3.5	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	06/10/14	6.9	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	06/10/14	6.2	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	09/17/14	4.6	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	12/30/14	11	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	03/27/15	12.0	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	06/25/15	3.4	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	03/25/16	3.4	mg/L	1.00	
CSXT MW-68	100	100	PHC as DIESEL FUEL	06/23/16	1.9	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	1/17/2013	2.3	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	5/21/2013	3.3	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	9/19/2013	6.2	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	12/27/13	1.3	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	03/12/14	5.0	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	06/11/14	59	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	09/18/14	3.5	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	12/30/14	2.9	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	03/26/15	2.9	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	06/25/15	2.4	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	03/25/16	3.5	mg/L	1.00	
CSXT MW-69	100	100	PHC as DIESEL FUEL	06/23/16	4.1	mg/L	1.00	
CSXT MW-71	100	100	PHC as DIESEL FUEL	12/30/14	0.38	mg/L	1.00	
CSXT MW-71	100	100	PHC as DIESEL FUEL	03/26/15	0.2	mg/L	1.00	
CSXT MW-71	100	100	PHC as DIESEL FUEL	06/25/15	0.21	mg/L	1.00	
CSXT MW-71	100	100	PHC as DIESEL FUEL	03/25/16	0.13	mg/L	1.00	
CSXT MW-71	100	100	PHC as DIESEL FUEL	06/23/16	0.14	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	12/18/2006	0.18	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	2/28/2007	0.45	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	5/24/2007	0.25	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	8/9/2007	0.24	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	11/29/2007	<0.098U	mg/L	0.10	ND
NPS MW-01	100	100	PHC as DIESEL FUEL	3/3/2008	1.8	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	5/21/2008	0.16	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	8/7/2008	<0.039U	mg/L	0.04	ND
NPS MW-01	100	100	PHC as DIESEL FUEL	2/26/2009	<0.52U	mg/L	0.52	ND
NPS MW-01	100	100	PHC as DIESEL FUEL	9/4/2009	0.57	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	3/10/2010	0.62	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	9/22/2010	0.42	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	2/15/2011	1.1	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	8/9/2011	0.34	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	3/23/2012	1	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	9/25/2012	0.4	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	1/15/2013	0.1	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	03/13/14	0.2	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	9/18/2013	0.2	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	09/16/14	0.58	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	03/25/15	0.43	mg/L	1.00	
NPS MW-01	100	100	PHC as DIESEL FUEL	03/24/16	0.43	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	12/14/2006	0.93	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	3/1/2007	1.4	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NPS MW-02	100	100	PHC as DIESEL FUEL	5/25/2007	0.81	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	8/10/2007	0.67	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	12/3/2007	<0.096U	mg/L	0.10	ND
NPS MW-02	100	100	PHC as DIESEL FUEL	2/27/2008	0.3	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	5/22/2008	0.64	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	8/12/2008	0.46	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	3/4/2009	0.5	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	3/4/2009	0.4	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	9/3/2009	1.3	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	9/3/2009	1.4	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	3/9/2010	1.5	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	9/22/2010	1.3	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	2/15/2011	1.2	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	8/9/2011	0.94	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	3/23/2012	1.2	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	9/26/2012	1.1	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	1/16/2013	0.3	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	9/18/2013	0.6	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	03/13/14	0.6	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	09/16/14	0.56	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	03/25/15	0.59	mg/L	1.00	
NPS MW-02	100	100	PHC as DIESEL FUEL	03/24/16	0.61	mg/L	1.00	
NPS MW-03	100	100	PHC as DIESEL FUEL	12/15/2006	0.19	mg/L	1.00	
NPS MW-03	100	100	PHC as DIESEL FUEL	2/27/2007	0.34	mg/L	1.00	
NPS MW-03	100	100	PHC as DIESEL FUEL	5/23/2007	0.17	mg/L	1.00	
NPS MW-03	100	100	PHC as DIESEL FUEL	8/8/2007	0.29	mg/L	1.00	
NPS MW-03	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
NPS MW-03	100	100	PHC as DIESEL FUEL	2/29/2008	<0.038U	mg/L	0.04	ND
NPS MW-03	100	100	PHC as DIESEL FUEL	5/20/2008	<0.04U	mg/L	0.04	ND
NPS MW-03	100	100	PHC as DIESEL FUEL	8/11/2008	<0.043U	mg/L	0.04	ND
NPS MW-03	100	100	PHC as DIESEL FUEL	1/15/2013	0.1	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	5/16/2005	30	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	6/6/2006	21	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	12/18/2006	10	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	3/2/2007	33	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	5/23/2007	3.2	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	3/3/2008	9.6	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	5/27/2008	11	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	8/12/2008	2	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	3/4/2009	6.1	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	9/3/2009	4.5	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	3/9/2010	5.4	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	9/23/2010	3	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	2/15/2011	12	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	8/10/2011	3.2	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	3/23/2012	2.9	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	9/26/2012	5.4	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	1/16/2013	17.0	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	9/18/2013	31.0	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	03/13/14	7.8	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NPS MW-04	100	100	PHC as DIESEL FUEL	09/16/14	5.2	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	03/25/15	6.8	mg/L	1.00	
NPS MW-04	100	100	PHC as DIESEL FUEL	03/24/16	3.4	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	12/15/2006	0.9	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	2/28/2007	1.3	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	2/28/2007	1.1	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	5/23/2007	0.83	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	8/9/2007	0.91	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	11/29/2007	<0.094U	mg/L	0.09	ND
NPS MW-05	100	100	PHC as DIESEL FUEL	3/3/2008	0.42	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	3/3/2008	0.26	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	5/20/2008	<0.039U	mg/L	0.04	ND
NPS MW-05	100	100	PHC as DIESEL FUEL	5/20/2008	0.25	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	8/7/2008	<0.044U	mg/L	0.04	ND
NPS MW-05	100	100	PHC as DIESEL FUEL	2/26/2009	<0.51U	mg/L	0.51	ND
NPS MW-05	100	100	PHC as DIESEL FUEL	9/4/2009	1.2	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	3/10/2010	0.82	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	9/22/2010	1.1	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	2/15/2011	0.89	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	8/9/2011	0.7	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	9/17/2013	0.3	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	3/23/2012	0.62	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	9/25/2012	0.8	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	1/15/2013	0.2	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	03/13/14	0.3	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	09/16/14	0.4	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	03/25/15	0.53	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	03/25/15	0.36	mg/L	1.00	
NPS MW-05	100	100	PHC as DIESEL FUEL	03/24/16	0.44	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	12/15/2006	0.41	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	3/1/2007	0.7	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	5/22/2007	0.51	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	8/10/2007	0.66	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	12/3/2007	<0.098U	mg/L	0.10	ND
NPS MW-10	100	100	PHC as DIESEL FUEL	2/29/2008	0.5	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	5/22/2008	0.28	mg/L	1.00	
NPS MW-10	100	100	PHC as DIESEL FUEL	8/12/2008	<0.047U	mg/L	0.05	ND
NPS MW-10	100	100	PHC as DIESEL FUEL	1/16/2013	0.3	mg/L	1.00	
NPS MW-11	100	100	PHC as DIESEL FUEL	12/15/2006	0.43	mg/L	1.00	
NPS MW-11	100	100	PHC as DIESEL FUEL	3/1/2007	0.77	mg/L	1.00	
NPS MW-11	100	100	PHC as DIESEL FUEL	5/22/2007	0.37	mg/L	1.00	
NPS MW-11	100	100	PHC as DIESEL FUEL	8/10/2007	0.41	mg/L	1.00	
NPS MW-11	100	100	PHC as DIESEL FUEL	12/3/2007	<0.095U	mg/L	0.10	ND
NPS MW-11	100	100	PHC as DIESEL FUEL	2/27/2008	<0.04U	mg/L	0.04	ND
NPS MW-11	100	100	PHC as DIESEL FUEL	5/27/2008	<0.038U	mg/L	0.04	ND
NPS MW-11	100	100	PHC as DIESEL FUEL	8/12/2008	<0.048U	mg/L	0.05	ND
NPS MW-12	100	100	PHC as DIESEL FUEL	12/14/2006	0.59	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	3/1/2007	0.93	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	5/25/2007	0.61	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	8/10/2007	0.56	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NPS MW-12	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
NPS MW-12	100	100	PHC as DIESEL FUEL	2/27/2008	0.38	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	5/22/2008	0.25	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	8/12/2008	0.43	mg/L	1.00	
NPS MW-12	100	100	PHC as DIESEL FUEL	1/16/2013	0.3	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	12/21/2006	0.53	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	2/27/2007	0.65	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	5/23/2007	0.42	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	8/9/2007	0.56	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	11/29/2007	<0.099U	mg/L	0.10	ND
NPS MW-13	100	100	PHC as DIESEL FUEL	2/29/2008	0.26	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	5/20/2008	0.3	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	8/12/2008	<0.042U	mg/L	0.04	ND
NPS MW-13	100	100	PHC as DIESEL FUEL	2/26/2009	0.3	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	9/4/2009	0.74	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	3/10/2010	0.57	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	9/22/2010	0.71	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	2/15/2011	0.79	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	8/9/2011	0.45	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	3/22/2012	0.53	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	9/25/2012	0.7	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	1/15/2013	0.2	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	9/17/2013	0.3	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	03/13/14	0.3	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	09/16/14	0.5	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	03/25/15	0.68	mg/L	1.00	
NPS MW-13	100	100	PHC as DIESEL FUEL	03/24/16	0.61	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	12/14/2006	2.3	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	12/14/2006	1.7	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	3/2/2007	2.4	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	5/23/2007	1.8	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	8/9/2007	1	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	11/29/2007	<0.096U	mg/L	0.10	ND
NPS MW-14	100	100	PHC as DIESEL FUEL	2/29/2008	0.9	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	5/27/2008	0.88	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	8/11/2008	0.71	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	2/26/2009	0.6	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	9/4/2009	2.5	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	3/10/2010	2	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	9/22/2010	1.2	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	2/15/2011	3.4	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	8/9/2011	1	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	3/22/2012	1.7	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	9/25/2012	2.4	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	1/15/2013	0.7	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	9/17/2013	1.0	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	03/13/14	1.2	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	09/16/14	1.3	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	03/25/15	0.98	mg/L	1.00	
NPS MW-14	100	100	PHC as DIESEL FUEL	03/24/16	1.2	mg/L	1.00	

Appendix E
 MAROS Input
 Site Conceptual Model - Second Addendum
 Brunswick Yard, Brunswick, Maryland



WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NPS MW-15	100	100	PHC as DIESEL FUEL	12/18/2006	1.8	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	3/2/2007	1.8	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	5/23/2007	1	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	8/9/2007	1.5	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	11/30/2007	1	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	2/27/2008	0.76	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	5/20/2008	1.1	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	8/7/2008	0.59	mg/L	1.00	
NPS MW-15	100	100	PHC as DIESEL FUEL	1/15/2013	0.5	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	12/15/2006	1.3	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	3/2/2007	1.4	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	5/25/2007	1.4	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	8/10/2007	1.3	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
NPS MW-16	100	100	PHC as DIESEL FUEL	2/29/2008	0.28	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	5/22/2008	0.12	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	5/23/2008	0.57	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	8/12/2008	0.46	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	3/4/2009	0.6	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	9/3/2009	0.88	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	3/9/2010	1.9	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	9/22/2010	1.5	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	2/15/2011	0.53	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	8/9/2011	0.91	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	3/23/2012	0.96	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	9/26/2012	0.56	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	1/16/2013	0.3	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	9/18/2013	0.7	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	03/13/14	0.8	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	09/16/14	0.7	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	03/25/15	0.77	mg/L	1.00	
NPS MW-16	100	100	PHC as DIESEL FUEL	03/24/16	0.73	mg/L	1.00	
NPS MW-17	100	100	PHC as DIESEL FUEL	12/14/2006	0.12	mg/L	1.00	
NPS MW-17	100	100	PHC as DIESEL FUEL	3/1/2007	0.21	mg/L	1.00	
NPS MW-17	100	100	PHC as DIESEL FUEL	5/24/2007	0.13	mg/L	1.00	
NPS MW-17	100	100	PHC as DIESEL FUEL	8/10/2007	0.17	mg/L	1.00	
NPS MW-17	100	100	PHC as DIESEL FUEL	11/30/2007	<0.097U	mg/L	0.10	ND
NPS MW-17	100	100	PHC as DIESEL FUEL	2/27/2008	<0.038U	mg/L	0.04	ND
NPS MW-17	100	100	PHC as DIESEL FUEL	8/12/2008	<0.044U	mg/L	0.04	ND
NPS MW-17	100	100	PHC as DIESEL FUEL	1/16/2013	0.1	mg/L	1.00	

Arcadis U.S., Inc.

7550 Teague Road

Suite 210

Hanover, Maryland 21076

Tel 410 987 0032

Fax 410 987 4392

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the bottom of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, crossing the horizontal line.