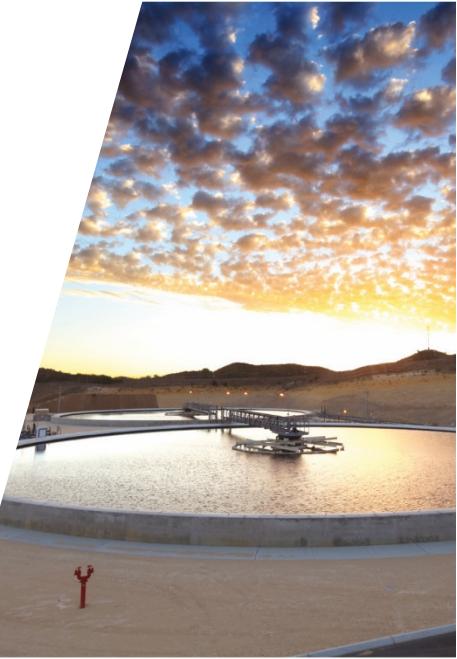




Seventh Semi-Annual VRP Progress Report

IMTT Savannah North Terminal
Savannah, Chatham County, Georgia
VRP #1440101197

IMTT Epic LLC





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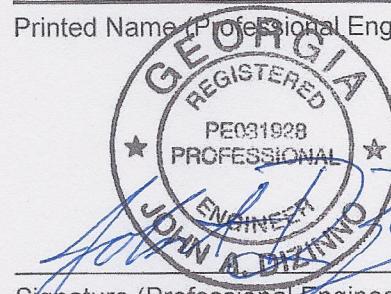
Savannah, Chatham County, Georgia

VRP #1440101197

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

John A. DiZinno, PE

Printed Name (Professional Engineer)



Signature (Professional Engineer)

5/31/2019



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1. Introduction

On behalf of IMTT Epic LLC, GHD has prepared this semi-annual progress report pursuant to the approved Voluntary Remediation Program (VRP) application for the IMTT Savannah North Terminal located at 7 Foundation Drive, Savannah, Georgia (Site). A vicinity map for the Site is included as Figure 1. An aerial photograph of the Site obtained in 2016 is included as Figure 2. A layout of the Site in its current configuration is shown on Figure 3.

1.1 Background

The IMTT Savannah North Terminal has been utilized for petroleum refining and storage activities since the early 1900s. Mexican Petroleum first developed the property as a petroleum refinery in 1929. The property was later acquired by American Oil Company (and later Amoco), which continued petroleum operations. In 1993, the property was acquired by CITGO Asphalt Refining (CITGO), and began asphalt refining operations until acquisition by NuStar Asphalt Refining, LLC in 2008. Asphalt refining operations were temporarily halted in 2012. The property was acquired by Axeon Specialty Products (Axeon) in 2014 and thereafter by Epic Midstream LLC (Epic) in December 2015. In January 2018, Epic changes its name to IMTT Epic LLC. The Site has historically been used as a bulk storage and distribution facility for petroleum products. The refinery portion of the Site was demolished during the first quarter of 2016.

In 1989, light non-aqueous phase liquid (LNAPL) was discovered at the Site and a subsequent investigation by Amoco concluded that detected LNAPL was the result of the “gradual accumulation of residual oil over several decades.” Subsurface investigations and LNAPL recovery operations have been conducted in various capacities since the discovery of the LNAPL. Through subsurface investigations, the LNAPL present at the Site has been determined to be petroleum hydrocarbon-based material.

In 1996, Horizontal Subsurface Systems, Inc. installed a 20-foot (ft) deep and approximately 1,500 ft long polyethylene (HDPE) polywall at the Site along the Savannah River. The polywall was positioned at the downgradient edge of the Site to prevent the migration of LNAPL to the Savannah River. Portions of the polywall were exposed through excavation by Axeon in June and July of 2015. Upon inspection, the exposed sections of the polywall did not show any signs of delamination, degradation, or deterioration. The installation of the polywall has proved to be a success and an effective method of providing containment for the LNAPL plume.

On August 8, 2015, a VRP application or Voluntary Investigation and Remediation Plan (VIRP) was submitted by Axeon to the Georgia Environmental Protection Division (GAEPD) for the Site. Following submittal of the VIRP, Terracon, on behalf of Axeon, performed additional investigation at the Site and the results were summarized in a Site Investigation Summary Report (SISR) submitted to Georgia EPD on September 15, 2015. Additionally, Langan Engineering and Environmental Services (Langan) evaluated the LNAPL at the Site and identified potential LNAPL recovery approaches for implementation at the Site that were described in a Technical Memorandum to Axeon that was submitted to Georgia EPD on October 29, 2015. The SISR and Langan Technical Memorandum were submitted to supplement the August 2015 VIRP.



In correspondence dated November 24, 2015, the Georgia EPD stated that the Site had been approved for participation in the VRP with comments and was assigned VRP #1440101197. Epic purchased the Site from Axeon on December 22, 2015 and on January 14, 2016 Epic submitted a revised VRP application and checklist to reflect the ownership change from Axeon to Epic. On December 13, 2017, IMTT submitted a revised VRP application and checklist to change the responsible party name to IMTT Epic LLC, effective January 1, 2018. The Corrective Action Plan (CAP) for the Site was submitted to GAEPD, dated May 23, 2018.

The existing monitoring well network at the Site as identified by GHD consists of 61 wells installed during previous environmental investigations that are shown on Figure 3. Historically, as many as 27 of these monitoring wells have contained LNAPL, with 25 wells containing measurable LNAPL during the reporting period.

1.2 Conceptual Site Model

A preliminary CSM was submitted as a part of the VIRP. The CSM was updated in the *Corrective Action Plan and Conceptual Site Model* for the Site, dated May 2018, based on information derived from investigations conducted by GHD, review of previous investigative work at the Site, and based on the on-going LNAPL recovery data. The CSM will be updated as needed based on observations from the Site.

1.3 Corrective Action Plan

Remedial activities proposed for the Site were outlined in the *Corrective Action Plan and Conceptual Site Model* submitted in May 2018. The corrective actions proposed at the Site include the following:

- Continue long-term LNAPL recovery using in-well air-powered LNAPL skimming systems at well locations AW-9, AW-11, AW-49, AW-56, and AW-82 until stabilized LNAPL transmissivity in the wells decreases to below 0.1 ft²/day, which was established as the remedial end-point and de minimis LNAPL transmissivity value.
- Perform 2-month duration intermittent LNAPL recovery from select wells using skimming systems. The wells included in the intermittent skimming program are: AW-5, AW-10, AW-12, AW-22, AW-54, AW-65, and AW-68. Recovery system operation will be limited at these wells due to their typically high initial LNAPL recovery rates and transmissivity values followed by very low recovery rates.
- Continue monitoring wells AW-62 and POD-1 for the presence of LNAPL on the river side of the polywall and use absorbent socks in the wells to remove residual LNAPL.
- Continue quarterly monitoring of all accessible Site monitoring wells to monitor the extent of the LNAPL plume, to verify LNAPL migration is not occurring, and to monitor the integrity of the polywall barrier.
- Implement land use restrictions to prevent exposure to Site contaminants.



1.4 Report Overview

This report summarizes the findings from the following activities that were performed at the Site during the reporting period of November 9, 2018 through May 7, 2019:

- Quarterly groundwater monitoring and LNAPL measurements performed in February and May 2019.
- Continuation of long-term LNAPL recovery for monitoring wells AW-9, AW-11, AW-49, AW-56, and AW-82.
- Conclusion of long-term LNAPL recovery for monitoring well AW-82, and inclusion in the intermittent skimming program.
- Completion of the first intermittent skimming event for monitoring wells AW-68 and AW-15, and the completion of the second intermittent skimming event for monitoring wells AW-10 and AW-12.
- Revised skimming costs and schedules based on updated long-term and intermittent LNAPL removal efforts.

2. Monitoring Activities Completed During Reporting Period

2.1 Quarterly LNAPL Monitoring

2.1.1 February 2019 Gauging Event

Depth to water measurements were obtained on February 12, 2019 for 60 existing on-Site monitoring wells that were located and accessible during the event. The measurements were obtained using a Solinst oil/water interface probe and are summarized in Table 1. Groundwater elevations were determined based on the depth to groundwater measurements compared to surveyed top of casing elevations and adjusted for the measured in-well LNAPL thickness, where required. A groundwater potentiometric elevation and contour map based on the February 12, 2019 groundwater elevation data is shown on Figure 4 and indicates that the groundwater flow direction is generally to the east towards the Savannah River; which is consistent with historical observations.

LNAPL was measured in 25 of 60 gauged wells during the February 2019 event as summarized in Table 1 with observed thicknesses varying between a sheen less than 0.01 feet and 12.95 feet. Figure 5 presents isolopleths depicting the measured in-well LNAPL thicknesses for this event which are generally consistent with observations from recent events. No indication of the presence of LNAPL was observed on the river side of the polywall during the February 2019 monitoring, with the exception of a sheen in AW-62.

2.1.2 May 2019 Gauging Event

Depth to water measurements were obtained on May 6, 2019 for 60 existing on-Site monitoring wells that were located and accessible during the event. The measurements were obtained using a Solinst oil/water interface probe and are summarized in Table 1. Groundwater elevations were



determined based on the depth to groundwater measurements compared to surveyed top of casing elevations and adjusted for the measured in-well LNAPL thickness, where required. A groundwater potentiometric elevation and contour map based on the May 06, 2019 groundwater elevation data is shown on Figure 6 and indicates that the groundwater flow direction is generally to the east towards the Savannah River; which is consistent with historical observations.

LNAPL was measured in 22 of 60 gauged wells during the May 2019 event as summarized in Table 1 with observed thicknesses varying between 0.02 and 12.91 feet. Figure 7 presents isopleths depicting the measured in-well LNAPL thicknesses for this event which are generally consistent with observations from recent events. No LNAPL was observed on the river side of the polywall, during the May 2019 event.

2.1.3 LNAPL Extent

Figure 8 depicts the inferred areal extent of LNAPL in the subsurface based on observations of in-well LNAPL accumulations. Included on the figures are the historical maximum extent, the inferred extent in 2009, and the inferred extent based on the May 2019 measurements. Historically, LNAPL has been detected in monitoring wells across the majority of the Site with an inferred extent of over 35 acres. Measurements obtained in 2009 suggested an areal extent of 18 acres. The measurements from May 2019 indicated an extent of approximately 14 acres. Based on these observations, there has been over a 22% reduction in the areal extent since 2009 and an overall reduction of LNAPL extent of over 61%.

Table 4 presents a summary of the maximum in-well LNAPL thickness observed historically and since 2017 for wells that contained LNAPL and the in-well LNAPL thicknesses observed in those wells during the reporting period. The average reduction in the observed in-well LNAPL thicknesses for the reporting period is approximately 38% in comparison to 2017 maximums and approximately 63% in comparison to the historical maximums.

These observations suggest that the LNAPL plume is stable and in a declining condition that supports the conclusion that the LNAPL at the Site is immobile and not likely to migrate nor is it expected to be recoverable to a large extent.

2.2 Weekly Polywall Monitoring

No LNAPL has been detected in any of the wells installed on the river side of the polywall since at least 2009, with the exception of AW-62 and POD-1. AW-62 and POD-1 have been monitored weekly since October 2016, and have contained no more than 0.04 feet of LNAPL since that time. This suggests that the majority of the LNAPL mass has been adequately contained by the polywall barrier and that only residual LNAPL remains on the river side of the polywall barrier.

A sheen up to 0.01 feet of LNAPL has been measured in AW-62 and POD-1 intermittently during this reporting period. Absorbent socks have been placed within AW-62 and POD-1 to recover the residual LNAPL, and have been replaced as needed. GHD will continue to monitor AW-62 and POD-1 for the presence of LNAPL. Additionally, all monitoring wells located on the river side of the polywall will continue to be monitored on a quarterly basis to ensure that the integrity of the polywall is maintained and off-Site LNAPL migration is not occurring.



2.3 LNAPL Monitoring Observations

As described above, quarterly monitoring was completed in February and May 2019 and the observations suggest the following:

- No additional sources of LNAPL have been observed or identified.
- No off-Site migration of LNAPL is occurring.
- No indications of any issues or concerns with the integrity of the polywall barrier.
- The extent of the LNAPL plume has remained stable and continues to demonstrate an extent less than that observed historically.
- LNAPL migration has not presented an increased risk to human or environmental health.

GHD will continue to visit the Site on a quarterly basis to complete measurements of groundwater elevations and in-well LNAPL thickness. The measured LNAPL thicknesses will be reviewed and any wells requiring addition or removal from the LNAPL skimming and transmissivity program will be identified. The quarterly LNAPL gauging information will be utilized to update the CSM to reflect the current extent and in-well thickness trends at the Site.

3. Progress of Remedial Activities

As described in prior Progress Reports and the CAP, GHD completed LNAPL recovery evaluations and transmissivity evaluations at each of the on-Site monitoring wells containing LNAPL consistently exceeding 0.3 feet in thickness. The tests were designed to determine the practicability of long-term LNAPL removal using methodologies established in the ITRC Technical/Regulatory Guidance document *Evaluating LNAPL Remedial Technologies for Achieving Project Goals*, dated December 2009. The procedures for data collection, skimmer operation, and the methodology utilized to calculate the LNAPL transmissivity were provided in the CAP.

As described in the CAP, GHD prescribed an LNAPL recovery approach to perform focused LNAPL recovery based on the recoverability of the LNAPL. Five monitoring wells that have demonstrated sustained LNAPL recovery rates over time were identified for continued long-term monitoring until such time as LNAPL recoverability decreased to a de minimis rate. Several other monitoring wells were identified for the performance of periodic or intermittent LNAPL skimming events with a duration of 2 to 3 months. As the skimming events are performed, each well will be evaluated to determine the necessity of continued LNAPL skimming to meet remedial objectives.

Data from long-term and intermittent skimming evaluations was used to develop several graphs to visually depict the skimming results and, if appropriate, depict long-term data trends. The data and applicable graphs for each well are included in Appendices A and B for the long-term and intermittent wells, respectively, and a description of each graph is provided below:

- The first graph for each well presents a depiction of the cumulative LNAPL recovery volume (gallons) and the weekly LNAPL recovery rate over time (gallons/day) during the long-term evaluation period. The cumulative volume of LNAPL recovery should become asymptotic with time. Typically, as the volume of LNAPL recovered from a well increases over time, the LNAPL



recovery rate will decrease (i.e. LNAPL volumetric recovery decline). This is due to the removal of the recoverable/mobile portion of LNAPL from the subsurface in the vicinity of the well.

- The second graph for each well presents an analysis of the LNAPL volumetric recoverability (Q_n) over time. Once stabilization of LNAPL recovery is reached (i.e., the in-well LNAPL has been drawn down and the skimmer is operating continuously during the observation interval), plotting the LNAPL recoverability versus the cumulative LNAPL volume recovered can be used to determine an estimate of the total volume of recoverable LNAPL from the well. When a clear trend is identified based on the data collected, the value of the estimated recoverable volume is shown on the graph.
- The third graph for each well presents an analysis of the weekly LNAPL transmissivity (T_n) values compared to total volumetric recovery and, where appropriate, a T_n decline curve. The plot presents the estimated LNAPL T_n values following stabilization of LNAPL recovery rates as compared to the ITRC de minimis criteria of 0.1 and 0.8 ft²/day.

As discussed in the CAP, an assessment of the cost of current and future LNAPL removal on a per-gallon basis was performed for each of the wells which underwent LNAPL recoverability and transmissivity evaluations. The following sections provide an updated analysis for the long-term and intermittent LNAPL skimming wells.

3.1 Long-Term Skimming Wells Progress Update

3.1.1 LNAPL Recovery from Long-Term Skimming Wells

As described in the CAP, monitoring wells AW-9, AW-11, AW-49, AW-56, and AW-82 were identified as candidate wells for long-term LNAPL skimming due to sustainable LNAPL recovery rates. Based on the LNAPL recovery rates and transmissivity data, long-term skimming was continued on these wells during the reporting period.

An estimation of the completion date and remaining volume of LNAPL to be removed at each well can be made using the data obtained from the long-term skimming evaluations. Decreasing trends in the stabilized LNAPL recovery rate at each candidate well were used to determine an approximate operational time remaining and volume of mobile LNAPL to be removed in order for the transmissivity of the well to decrease to the 0.1 ft²/day de minimis criteria. The estimated completion dates and remaining LNAPL volume to be removed for each of the long-term skimming wells are given below:

Well ID	Total LNAPL Removal as of May 7, 2019 (gallons)	LNAPL de Minimis Recovery Rate (gallons/day)	Approximate LNAPL Volume Removal Remaining to Achieve de Minimis LNAPL Recovery (gallons)	Estimated Date for Long-Term Skimming Completion
AW-9	1,847	0.5824	283	April 2020
AW-11	1,441	0.5007	280	July 2020
AW-49	2,893	0.5109	790	August 2021
AW-56	2,367	0.8176	1,560	April 2022
AW-82	1,380	0.4291	0	Completed



When compared to the estimated completion dates provided in the Sixth Semi-Annual VRP Progress Report, the remedial endpoint for AW-82 was met within the anticipated timeframe. Recovery at wells AW-9, AW-11, AW-49, and AW-56 was observed to increase or plateau during the reporting period, and therefore exceeded the anticipated removal rates projected in prior reports. Based on the addition of data from this reporting period, projections for the completion time of these three wells have been revised.

LNAPL removal data will continue to be collected during weekly O&M visits to the Site, and the above projections may be altered as additional data becomes available. The above estimated dates and volumes of LNAPL remaining are inferred based on projecting the existing data trends and should not be viewed as remedial end points. Updated projections will be provided in future Semi-Annual VRP Progress Reports.

3.1.2 Estimated LNAPL Recovery Cost at the Long-Term Wells

The table below provides an indication of the trend in costs to continue long-term skimming at the five wells. The first column presents the approximate cost per gallon of LNAPL recovered over the duration of the November 9, 2018 to May 7, 2019 reporting period. The second column presents the calculated cost per gallon for the projected removal required to achieve de minimis recovery and the final column is the estimated cost per gallon when the de minimis LNAPL recovery rate is reached for a given well:

Well ID	Unit Cost over the Reporting Period (\$/gallon)	Estimated Average Unit Cost to Achieve De Minimis Transmissivity (\$/gallon)	Estimated Unit Cost at Transmissivity Endpoint (\$/gallon)
AW-9	\$37	\$49	\$69
AW-11	\$45	\$61	\$80
AW-49	\$23	\$42	\$78
AW-56	\$14	\$28	\$49
AW-82	\$60	-	-

The table shows that over the long-term, the LNAPL recovery costs will increase for the long-term recovery wells until the remedial endpoint is met. Factors such as system down-time due to malfunction of the skimmer system or due to system maintenance can increase the unit prices over individual reporting periods, as was observed at AW-49 during this period. As described in Section 3.1.1, AW-82 has achieved average LNAPL removal below the de minimis criteria; therefore, no cost projections beyond the remedial endpoint for this well is given. Analysis of the costs of LNAPL removal during the reporting period and the projections of costs indicate that continued long-term LNAPL removal at AW-9, AW-11, AW-49, and AW-56 is warranted and economically feasible.

3.1.3 Summary of Observations for Long-Term Skimming Wells

Based on the observations from the reporting period, the following is a summary of the observations, findings, and potential changes to the skimming program for the long-term skimming wells:

- LNAPL recovery rates were observed to slightly increase or plateau in AW-9, AW-11, AW-49, and AW-56 during the reporting period suggesting that long-term skimming is still appropriate.



- System down time due to unit malfunctions or other issues can result in elevated unit costs of LNAPL removal during individual reporting period intervals. The general trend in unit costs for LNAPL removal at the long-term skimming wells has been a steady increase and it is expected to continue to increase as wells approach de minimis LNAPL recovery.
- Long-term skimming has achieved the remedial endpoint for AW-11, which indicates that the presence of mobile LNAPL in the vicinity of this well has been significantly diminished. Skimming operations at AW-82 were halted in February 2019, and this well has been added to the intermittent skimming program.

3.2 Intermittent Skimming Wells Progress Update

As described in the CAP, monitoring wells AW-5, AW-10, AW-12, AW-22, AW-54, AW-65, and AW-68 were identified as candidate wells for intermittent LNAPL skimming due to high in-well LNAPL thicknesses and unsustainable long-term LNAPL recovery rates. Monitoring well AW-15 was entered into the intermittent skimming program due to the lack of prior skimming testing at this well and monitoring well AW-82 has been transitioned from long-term skimming into the intermittent skimming program. During the reporting period, the first intermittent skimming event was completed for AW-15 and AW-68, and the second intermittent skimming event was initiated for AW-12, AW-22, and AW-54. Skimming systems were continuously operated in each of the intermittent wells on a rotating basis for at least 2 months. The results of the intermittent skimming operations are discussed below.

3.2.1 LNAPL Recovery from Intermittent Skimming Wells

A summary of the intermittent skimming results collected as of May 7, 2019 is presented in the table below:

Well ID	1 st Intermittent Event		2 nd Intermittent Event	
	LNAPL Recovery (gallons)	Unit Cost (\$/gallon)	LNAPL Recovery (gallons)	Unit Cost (\$/gallon)
AW-5	3.0	\$550	-	-
AW-10	75	\$44	-	-
AW-12	84	\$29	7.6 (ongoing)	\$180
AW-15	5.2	\$570	-	-
AW-22	47	\$58	7 (ongoing)	\$109
AW-54	21	\$182	Results pending (ongoing)	-
AW-65	-	-	-	-
AW-68	14	\$174	-	-

Data collected from each of the events was analyzed to determine the economic feasibility and technical practicability of continued intermittent skimming at each of the intermittent skimming program wells. The data for the first skimming events at AW-5, AW-15, AW-54, and AW-68 indicate that the cost of LNAPL removal at these wells is substantially elevated due to very low recoverability of LNAPL. Data from these tests indicated average LNAPL transmissivity values at these four locations between 0.01 ft²/day (AW-68) and 0.05 ft²/day (AW-54) during the first intermittent skimming events following the removal of LNAPL accumulated in the well.



At the time of this report, three second round intermittent events are ongoing at wells AW-12, AW-22, and AW-54. Initial data from AW-12 and AW-22 is given above; however, due to the small volume of data collected from the second event at AW-54, the data for this well will be presented in a subsequent Semi-Annual VRP Progress Report.

During each of the intermittent events, the majority of the recovered LNAPL has occurred during the initial two weeks of the event as shown below. This is consistent with previous observations at these wells as they yield high LNAPL recovery initially (typically because there are high in-well LNAPL thicknesses present), but sustained LNAPL recovery from these wells is not possible for long durations. This is indicative of low overall LNAPL recoverability:

Well ID	Intermittent Event Data		
	Event Duration (days)	LNAPL Recovery during Weeks 1 & 2 (gallons)	LNAPL Recovery during Remainder of Event (gallons)
AW-5 (1 st)	41	3.0	0.0
AW-10 (1 st)	83	46	31
AW-10 (2 nd)	100	17	17
AW-12 (1 st)	62	16	68
AW-12 (2 nd)	34	2.1	5.5 (ongoing)
AW-15 (1 st)	74	2.0	3.2
AW-22 (1 st)	69	30	17
AW-22 (2 nd)	19	3.0	4.0 (ongoing)
AW-54 (1 st)	96	14	7.5
AW-68 (1 st)	60	4.1	9.7

Trend lines for the intermittent skimming events are included in Appendix B and are depicted in comparison with previous skimming data. As observed at AW-10, AW-12, and AW-22, total LNAPL recovery and recovery rates at these wells decreases in each subsequent skimming event.

Skimming events are anticipated to continue on a routine basis until a significant decrease to near or below de minimis LNAPL recovery is achieved in each of the intermittent wells. Wells AW-5, AW-15, and AW-68 appear to have significant decreases in LNAPL recovery such that additional skimming events are not warranted.

In-well LNAPL thicknesses of over 10 feet continue to be observed in AW-54, yet as evidenced by the multiple skimming events, sustained LNAPL recovery does not occur. This suggests that even though there is LNAPL present in the subsurface near AW-54, it is not sufficiently recoverable to justify continued recovery. A second intermittent skimming event at this well was initiated during this reporting period as further demonstration of the recoverability of this well.

3.2.2 Estimated LNAPL Recovery Cost at the Intermittent Skimming Wells

As shown in the first table of Section 3.2.1, unit costs for the skimming operation were determined for the initial skimming events. The unit costs per gallon of LNAPL recovered have been relatively consistent with projected costs presented in the CAP for the intermittent wells. Significant increases in LNAPL removal costs per gallon were observed at AW-5 and AW-68 during the first intermittent skimming events at these wells, which was caused by a very limited recovery of LNAPL. In addition



to these wells, data from the first skimming event at AW-15 indicates high recovery costs for LNAPL removal with very low recovery rates.

Prior skimming events have indicated that the continued performance of skimming events at AW-10, AW-12, and AW-22 are viable from a cost perspective and from an LNAPL yield perspective. The initial skimming event at AW-54 suggested that a large volume of LNAPL was recoverable from within the well and annual space within the initial two weeks of skimmer operation, but additional operation of a skimmer system beyond the initial slug removal is not warranted or economically viable. A second round of skimming has been initiated at AW-12, AW-22, and AW-54 in order to further observe the efficacy and viability of the completion of additional skimming events at these wells.

The cost analysis for the remaining intermittent wells will continue to be evaluated and will be updated in each subsequent Semi-Annual VRP Progress Report to reflect the observed decline in LNAPL recovery. If changes in the LNAPL recovery rates significantly differ from the projected trends, then technically practicable LNAPL recovery may or may not be warranted at any of the above wells, and the skimming schedule may be altered to add, remove, or extend skimming operations.

3.2.3 Summary of Observations for Intermittent Skimming Wells

Based on the observations from the reporting period, the following is a summary of the observations, findings, and potential changes to the skimming program for the intermittent skimming wells:

- As with previous observations at these wells, LNAPL recovery rates are typically higher during the initial week or two of the event and LNAPL recovery rates quickly decrease over time.
- During the initial intermittent skimming events, the LNAPL recovery volumes and unit costs for LNAPL recovery from AW-10, AW-12, and AW-22 were observed at the rates and costs generally expected and as anticipated in the CAP. Information from the current ongoing skimming events at AW-12 and AW-22 will be analyzed to establish the LNAPL recovery trends expected over time.
- Limited LNAPL recovery was observed at AW-5, AW-15, and AW-68 during the initial intermittent events. The observations indicate that additional LNAPL recovery through intermittent skimming events are not technically practicable.
- LNAPL continues to re-accumulate in AW-54 following the completion of skimming events with in-well thicknesses of over 10 feet observed; however, upon the initiation of skimming, the LNAPL is quickly removed and very low LNAPL recovery rates are observed. An additional skimming test has been initiated at this well to further evaluate the LNAPL recovery at this well.
- Long-term skimming at AW-82 has been halted and will be added to the intermittent skimming program in order to evaluate LNAPL recovery following an equilibration period.

3.3 Progress Towards Achieving Remedial Endpoints

Proposed remedial endpoints for the ongoing LNAPL recovery were provided in the CAP. A summary of the progress towards achieving the remedial endpoints is provided below.



- Approximately 1,400 gallons of LNAPL were recovered from wells at the Site during the reporting period with over 13,000 gallons recovered since skimming operations began in the Spring of 2016.
- The extent of the LNAPL plume continues to remain stable with no indications of additional sources or migration of LNAPL.
- The monitoring performed on the river-side of the polywall barrier continues to indicate that there are no apparent concerns with the integrity of the polywall barrier.
- LNAPL recovery from AW-9, AW-11, AW-49, and AW-56 has remained consistent throughout the reporting period and will therefore likely be subjected to long-term skimming for the foreseeable future.
- LNAPL recovery rates decreased in AW-82 such that long-term skimming has been halted. After a period of stabilization (approximately 3 months), skimming will be resumed under the intermittent skimming program to gauge the LNAPL recovery rate and determine if further skimming is appropriate at this location.
- Because minimal LNAPL recovery was observed during the intermittent skimming events completed at AW-5, AW-15, and AW-68, these wells have been removed from the group of intermittent skimming wells going forward.
- Even though in-well LNAPL thicknesses of over 10 feet are observed in AW-54 when skimming is not underway, the implementation of periodic skimming events has not resulted in the recovery of large volumes of LNAPL. Typically, over 50% of the LNAPL recovery during a 2 to 3 month duration skimming event occurs within the first week or two when near well LNAPL is recovered. The LNAPL recovery rate then quickly diminishes and limited volumes of LNAPL are subsequently recovered. Based on these repeated observations at AW-54 further recovery at this well is anticipated to follow a similar pattern. A second intermittent skimming event has been initiated at this well and the data will be used to assess the future viability of additional skimming at this well.
- As discussed in Section 3.2.1, review of the charts in Appendix B that depict the cumulative LNAPL recovery volume and LNAPL recovery rate for AW-12 and AW-22 over the course of the initial transmissivity evaluation, the first intermittent skimming event, and the second intermittent skimming event (underway) demonstrates that LNAPL recoverability at these location has decreased with each successive event. This supports the assertion that upon the completion of intermittent events and the demonstrated reduction in recoverable LNAPL with each event, additional LNAPL recovery at these wells is not warranted. A similar trend for recovery at AW-10 was presented in the Sixth Semi-Annual VRP Progress Report.

3.4 Summary of LNAPL Skimming Program for the Next Reporting Period

Below is a summary of the anticipated skimming program to be implemented during the next reporting period:



- Long-Term Skimming
 - AW-9
 - AW-11
 - AW-49
 - AW-56
- Intermittent Skimming
 - AW-10
 - AW-12
 - AW-22
 - AW-54
 - AW-65
 - AW-82
- Removed from Skimming Program with Future Monitoring Only
 - AW-5
 - AW-15
 - AW-68

4. Commitment to Future Requirements

IMTT affirms its commitment to the following future requirements:

- Progress Reports – June 1st and December 1st through 2020
- March 31, 2021 – submit CSR upon completion of remedial activities proposed herein

5. Project Schedule

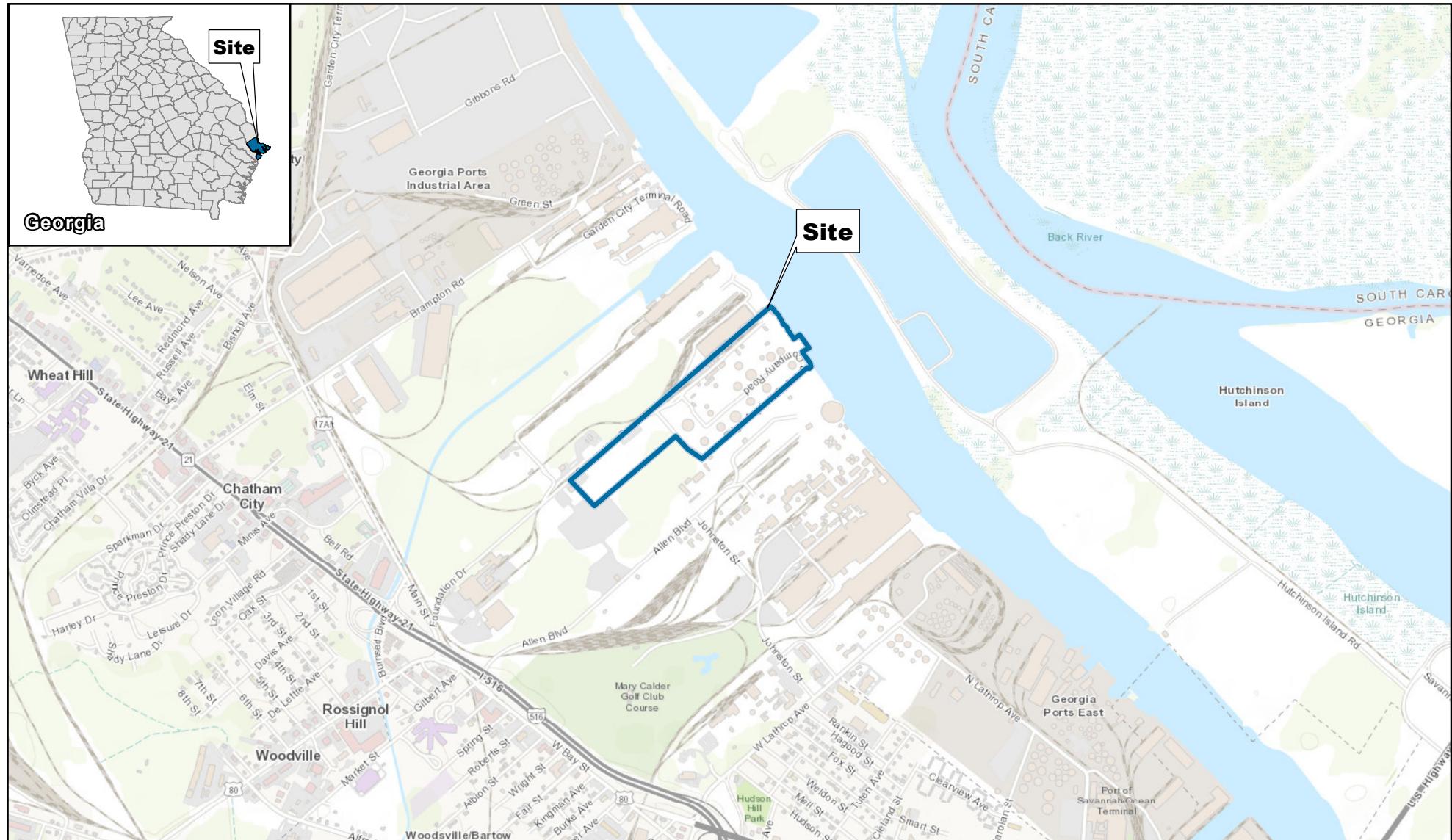
The anticipated milestone schedule for the May 1, 2019 to November 1, 2019 reporting period is provided in Table 3. Long-term skimming will continue to be performed at AW-9, AW-11, AW-49, and AW-56 during the next reporting period. Well AW-82 will be transitioned to the intermittent skimming program based on a decline in LNAPL recovery rates. Intermittent skimming events will continue to be performed and will be evaluated to determine additional skimming needs.



6. Engineering Labor Hours

Appendix C includes the summary of labor hours incurred by this project from November 1, 2018 to April 30, 2019.

Figures



Source: ESRI World Topographic Map.

0 1,000 2,000
Feet

Coordinate System:
NAD 1983 UTM Zone 17N



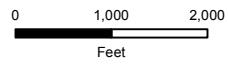
IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, GEORGIA

089400
Apr 15, 2019

FIGURE 1



Source: Aerial Photograph provided by Epic Midstream, LLC on March 17, 2016.



Coordinate System:
NAD 1983 UTM Zone 15N



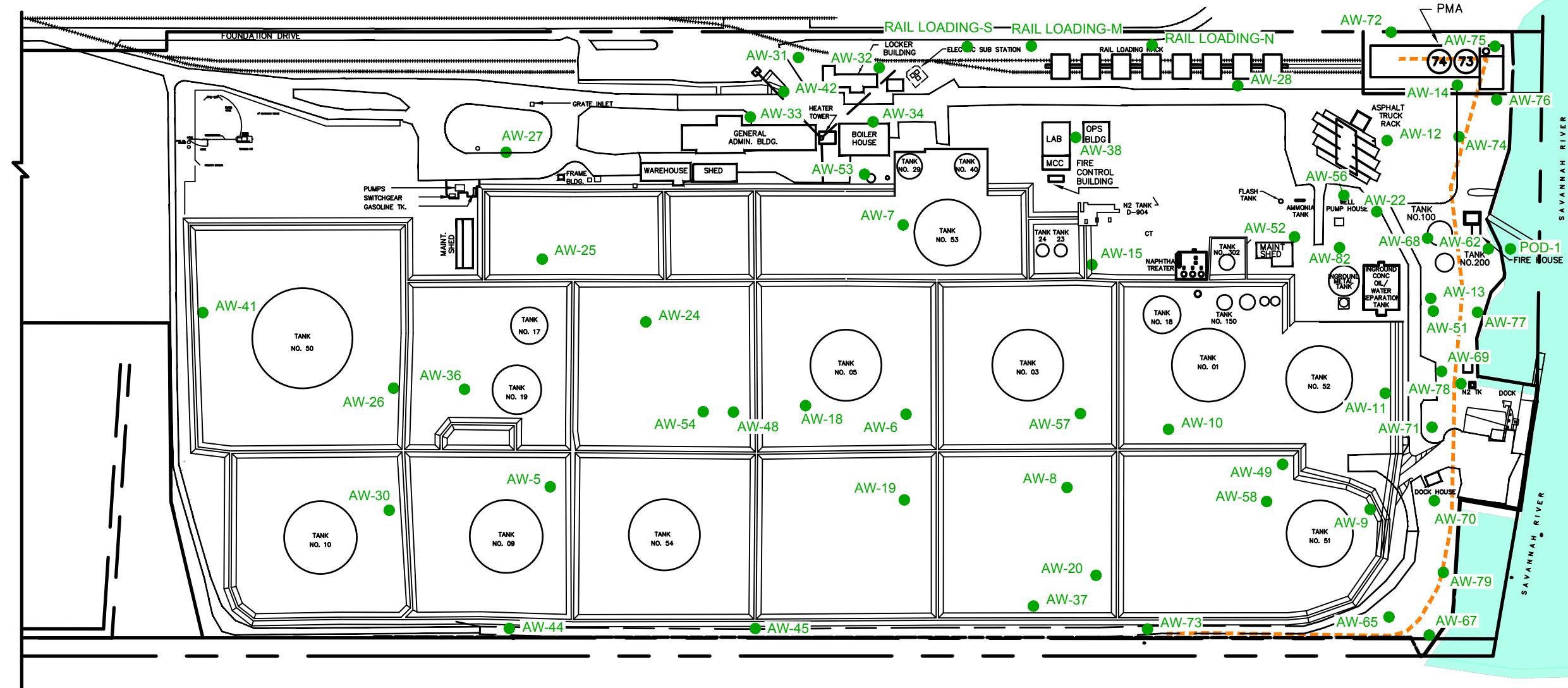
IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, GEORGIA

2016 AERIAL PHOTOGRAPH

089400
Apr 15, 2019

FIGURE 2

PLANT NORTH



LEGEND

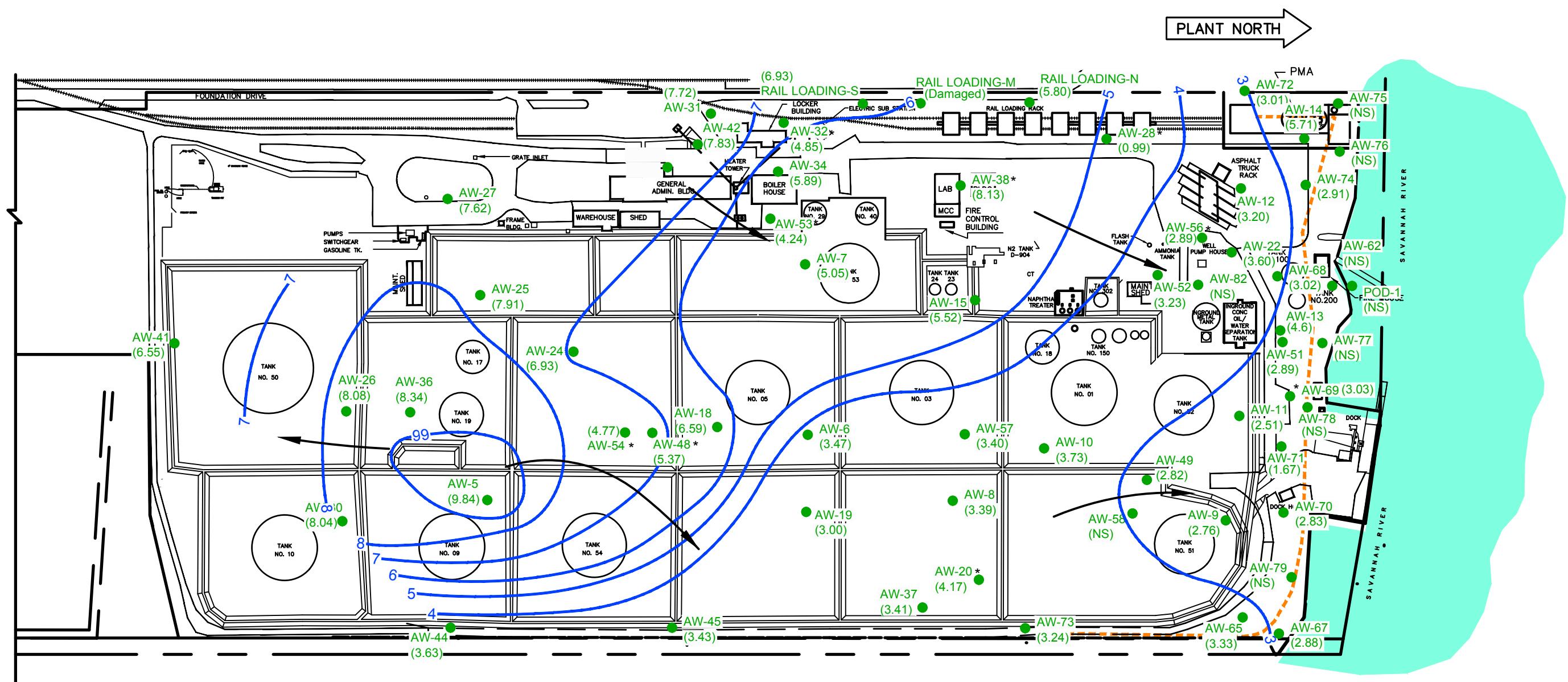
- PROPERTY LINE AND BOUNDARY
- - - POLYWALL BARRIER
- AW-52 • WELL LOCATION

0 100 200ft



IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT

089400-2019
May 21, 2019



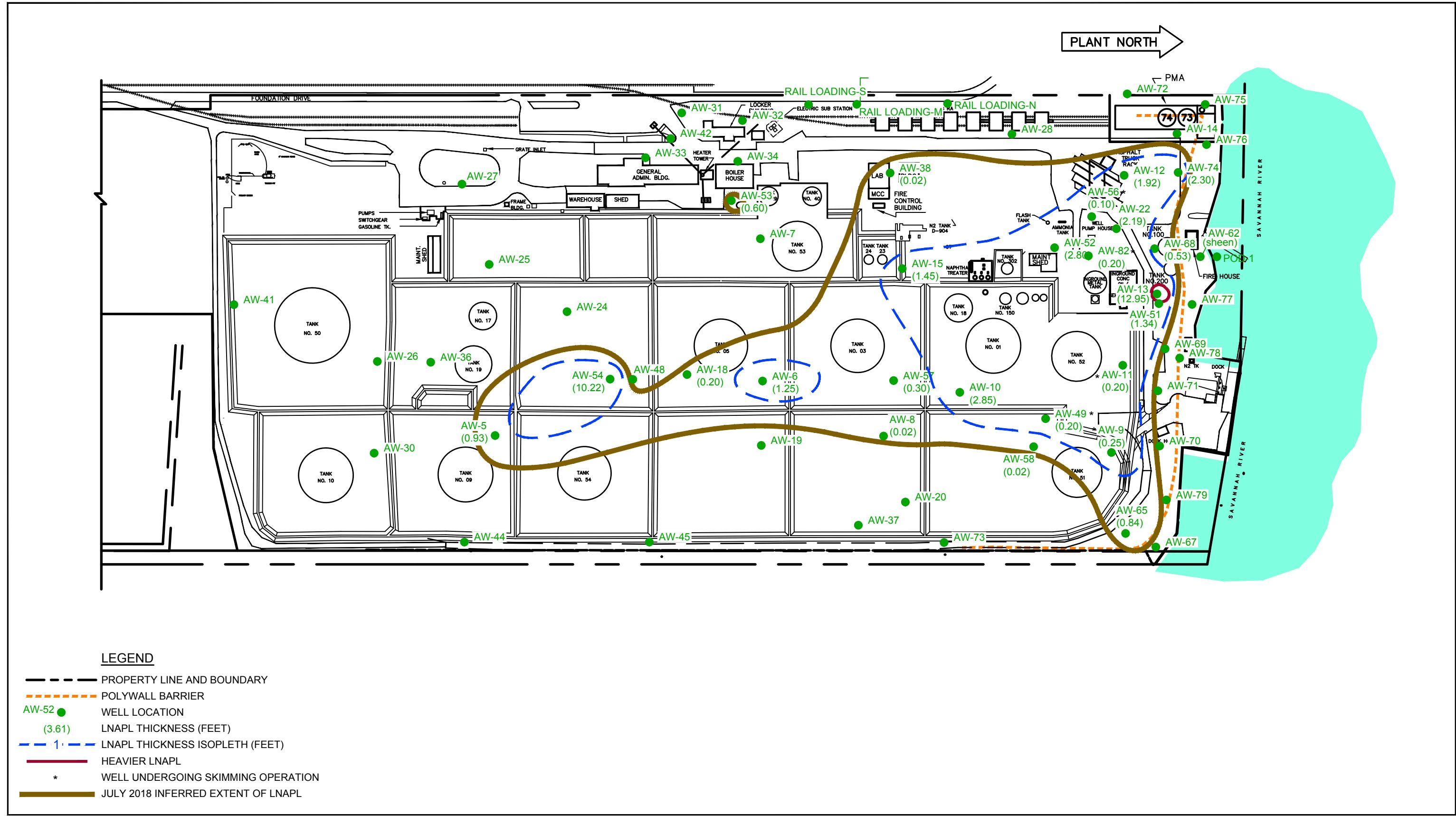
0 100 200ft



IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT
FEBRUARY 2019 GROUNDWATER ELEVATION
CONTOUR MAP

089400-2019
May 22, 2019

FIGURE 4



**IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT**

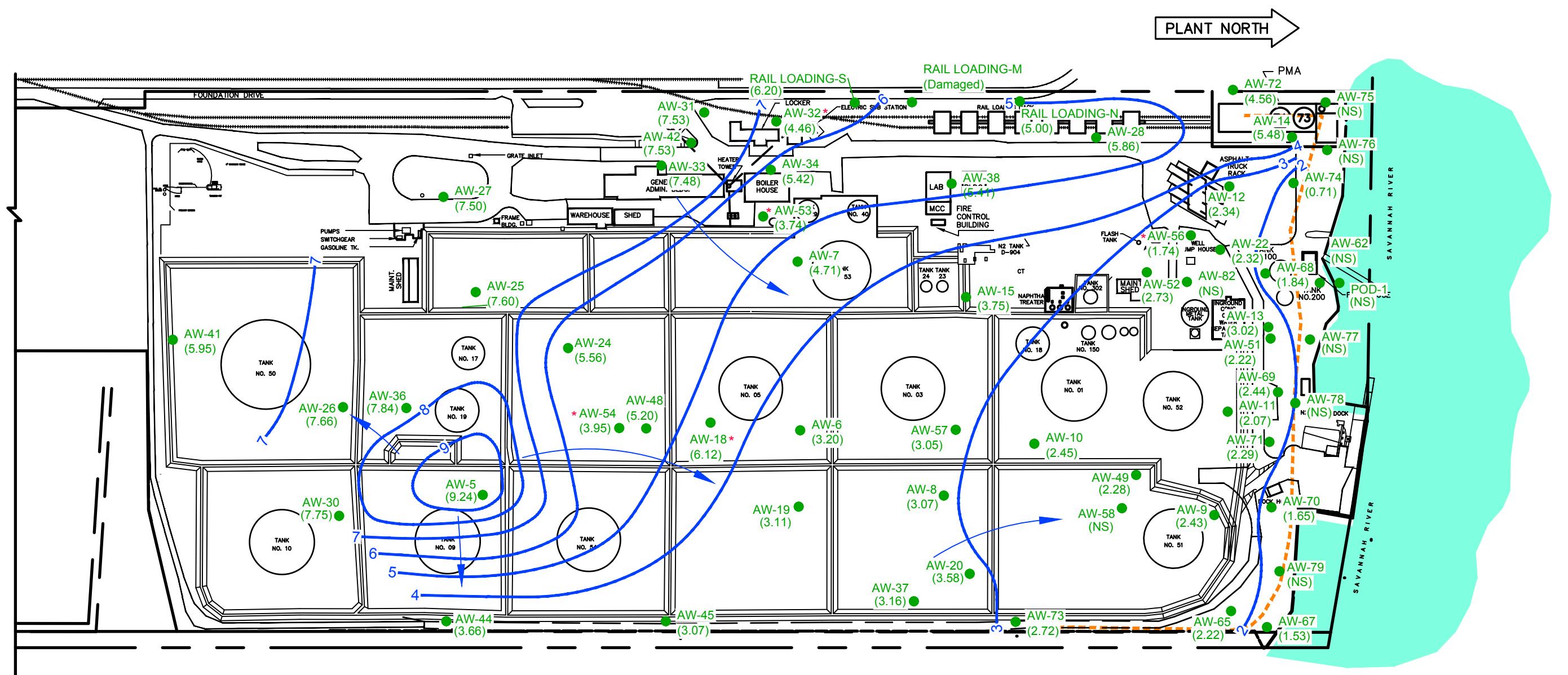
089400-2019
May 22, 2019



FEBRUARY 2019 LNAPL ISOCONTOUR MAP

D File: P:\drawings\89000s\89400\89400-REPORT\89400-2019(009)\89400-2019(009)GN\089400-2019(009)GN-WA004.dwg

FIGURE 5



LEGEND

- PROPERTY LINE AND BOUNDARY
- POLYWALL BARRIER
- WELL LOCATION
- AW-52 (2.73)
- GROUNDWATER ELEVATION (FT AMSL)
- 7 ft GROUNDWATER ELEVATION CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION
- NS NOT SURVEYED
- * MEASURED ELEVATION NOT USED TO DEVELOP CONTOURS

0 100 200ft

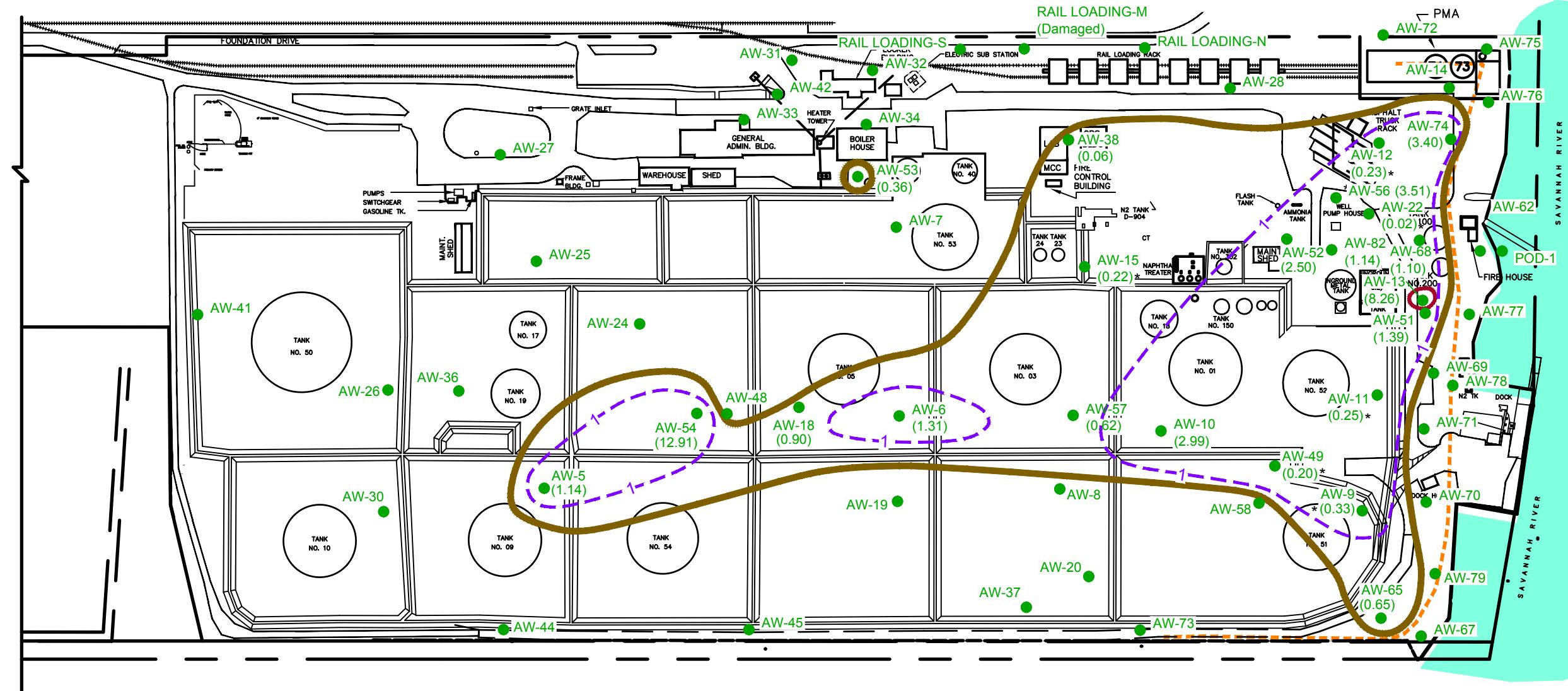


IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT
MAY 2019 GROUNDWATER ELEVATION
CONTOUR MAP

089400-2018
May 23, 2019

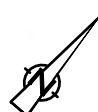
FIGURE 6

PLANT NORTH



LEGEND

- PROPERTY LINE AND BOUNDARY
- POLYWALL BARRIER
- WELL LOCATION
- (1.14) LNAPL THICKNESS (FEET)
- LNAPL THICKNESS ISOPLETH (FEET)
- HEAVIER LNAPL
- * ACTIVE REMOVAL SYSTEM
- INFERRED EXTENT OF LNAPL

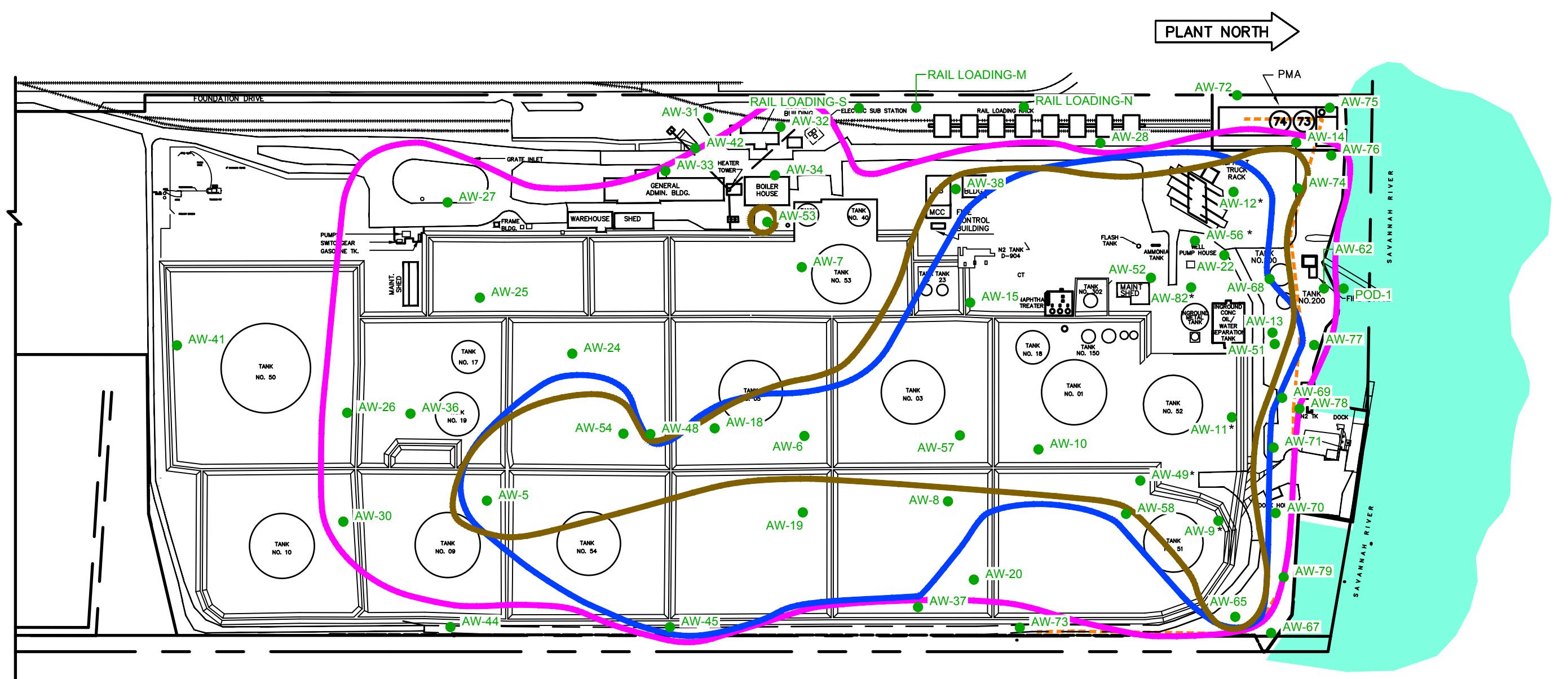


IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT

089400-2018
May 23, 2019

MAY 2019 LNAPL ISOCONTOUR MAP

FIGURE 7



0 100 200ft



IMTT SAVANNAH NORTH TERMINAL
7 FOUNDATION DRIVE, SAVANNAH, CHATHAM COUNTY, GEORGIA
SEVENTH SEMI-ANNUAL VRP PROGRESS REPORT

089400-2019
May 23, 2019

INFERRED EXTENT OF LNAPL

FIGURE 8

Tables

Table 1

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Groundwater Elevation and LNAPL Thickness
March 2016 to Current
IMTT Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-5	3/1/2016	6.56	7.75	9.31	1.19
	5/1/2016	6.42	7.61	9.45	1.19
	9/21/2016	5.50	8.05	10.17	2.55
	11/15/2016	6.72	8.32	9.09	1.60
	2/14/2017	5.35	6.42	10.53	1.07
	5/2/2017	7.23	7.62	8.75	0.39
	8/8/2017	5.11	6.81	10.68	1.70
	11/1/2017	6.61	7.81	9.25	1.20
	2/6/2018	6.78	7.98	9.08	1.20
	5/3/2018	6.97	8.26	8.88	1.29
	7/5/2018	6.19	7.65	9.64	1.46
	10/16/2018	6.36	6.40	9.67	0.04
	2/12/2019	6.06	6.99	9.84	0.93
	5/6/2019	6.63	7.77	9.24	1.14
AW-6	3/1/2016	8.20	9.43	3.19	1.23
	5/1/2016	8.06	9.58	3.29	1.52
	9/22/2016	7.46	9.37	3.83	1.91
	11/15/2016	7.25	9.54	3.99	2.29
	2/14/2017	7.91	9.53	3.42	1.62
	5/2/2017	8.36	9.64	3.02	1.28
	8/8/2017	7.70	7.81	3.85	0.11
	11/1/2017	7.90	9.31	3.46	1.41
	2/6/2018	8.37	9.36	3.06	0.99
	5/3/2018	8.16	9.49	3.22	1.33
	7/5/2018	7.62	9.43	3.69	1.81
	10/16/2018	7.67	9.41	3.65	1.74
	2/12/2019	7.92	9.17	3.47	1.25
	5/6/2019	8.18	9.49	3.20	1.31
AW-7	3/1/2016	--	7.93	4.61	--
	5/1/2016	--	7.78	4.76	--
	9/22/2016	--	7.22	5.32	--
	11/15/2016	--	6.38	6.16	--
	2/14/2017			Not Measured	
	5/2/2017	--	8.11	4.43	--
	8/8/2017	--	6.86	5.68	--
	11/1/2017	--	7.64	4.90	--
	2/6/2018	--	7.87	4.67	--
	5/3/2018	--	7.75	4.79	--
	7/5/2018	--	7.29	5.25	--
	10/16/2018	--	7.35	5.19	--
	2/12/2019	--	7.49	5.05	--
	5/6/2019	--	7.83	4.71	--
AW-8	3/1/2016	--	12.70	2.98	--
	5/1/2016	12.54	12.70	3.12	0.16
	9/22/2016	12.20	12.25	3.47	0.05
	11/15/2016	11.80	11.82	3.88	0.02
	2/14/2017	12.36	12.40	3.31	0.04
	5/2/2017	12.99	13.01	2.69	0.02
	8/8/2017	11.88	11.93	3.79	0.05
	11/1/2017	12.41	12.43	3.27	0.02
	2/6/2018	--	12.77	2.91	--
	5/3/2018	12.63	12.65	3.05	0.02
	7/5/2018	12.23	12.30	3.44	0.07
	10/16/2018	12.10	12.60	3.51	0.50
	2/12/2019	12.29	12.31	3.39	0.02
	5/6/2019	--	12.61	3.07	--
AW-9	3/1/2016	10.89	14.82	2.04	3.93
	5/1/2016	10.77	14.62	2.17	3.85
	9/22/2016	11.15	11.40	2.31	0.25
	11/15/2016	10.31	13.20	2.77	2.89
	2/14/2017	10.92	11.24	2.53	0.32
	5/2/2017	11.74	11.85	1.74	0.11
	8/8/2017	10.35	10.45	3.14	0.10
	11/1/2017	11.18	11.30	2.30	0.12
	2/6/2018	11.34	11.75	2.10	0.41
	5/3/2018	10.83	13.30	2.31	2.47
	7/5/2018	11.09	11.25	2.39	0.16
	10/16/2018	10.60	11.18	2.82	0.58
	2/12/2019	10.70	10.95	2.76	0.25
	5/6/2019	11.02	11.35	2.43	0.33

Table 1

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Groundwater Elevation and LNAPL Thickness
March 2016 to Current
IMTT Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-10	3/1/2016	11.10	14.72	2.27	3.62
	5/1/2016	10.73	14.82	2.57	4.09
	9/22/2016	10.44	15.33	2.75	4.89
	11/15/2016	9.40	14.12	3.82	4.73
	2/14/2017	11.31	11.56	2.55	0.25
	5/2/2017	11.73	13.08	1.97	1.35
	8/8/2017	9.90	13.79	3.43	3.89
	11/1/2017	10.84	14.75	2.49	3.91
	2/6/2018	11.31	13.82	2.22	2.51
	5/3/2018	11.60	11.88	2.26	0.28
	7/5/2018	10.33	13.64	3.09	3.31
	10/16/2018	10.55	14.33	2.80	3.78
	2/12/2019	9.75	12.60	3.73	2.85
	5/6/2019	11.01	14.00	2.45	2.99
AW-11	3/1/2016	11.20	14.79	1.92	3.59
	5/1/2016	10.86	14.92	2.19	4.06
	9/22/2016	10.77	14.17	2.37	3.40
	11/15/2016	10.18	12.68	3.10	2.50
	2/14/2017	11.26	11.49	2.35	0.23
	5/2/2017	12.25	13.39	1.22	1.14
	8/8/2017	10.61	10.81	3.00	0.20
	11/1/2017	11.46	11.61	2.16	0.15
	2/6/2018	11.80	12.11	1.79	0.31
	5/3/2018	11.65	11.95	1.95	0.30
	7/5/2018	11.32	11.55	2.29	0.23
	10/16/2018	11.02	11.31	2.58	0.29
	2/12/2019	11.10	11.30	2.51	0.20
	5/6/2019	11.53	11.78	2.07	0.25
AW-12	3/1/2016	9.25	12.65	2.30	3.40
	5/1/2016	8.96	15.77	2.01	6.81
	9/21/2016	5.47	16.20	4.82	10.73
	11/15/2016	8.70	10.99	3.04	2.29
	2/14/2017	9.46	14.09	1.88	4.63
	5/2/2017	9.50	15.15	1.67	5.65
	8/8/2017	8.40	17.04	2.25	8.64
	11/1/2017	9.06	16.61	1.78	7.55
	2/6/2018	12.17	12.20	-0.04	0.03
	5/3/2018	9.68	11.73	2.11	2.05
	7/5/2018	11.38	11.53	0.73	0.15
	10/16/2018	9.00	10.90	2.81	1.90
	2/12/2019	8.61	10.53	3.20	1.92
	5/6/2019	9.76	9.99	2.34	0.23
AW-13	3/1/2016	10.40	17.70	2.99	7.30
	5/1/2016	9.95	18.64	3.56	8.69
	9/22/2016	10.20	16.45	3.11	6.25
	11/15/2016	9.11	14.15	4.10	5.04
	2/14/2017	9.66	17.22	3.75	7.56
	5/2/2017	10.67	18.28	2.75	7.61
	8/8/2017	9.01	19.15	4.62	10.14
	11/1/2017	9.92	19.04	3.62	9.12
	2/6/2018	10.08	19.36	3.48	9.28
	5/3/2018	10.21	19.65	3.36	9.44
	7/5/2018	9.83	20.15	3.81	10.32
	10/17/2018	10.08	20.91	3.60	10.83
	2/12/2019	9.26	22.21	4.60	12.95
	5/6/2019	10.45	18.71	3.02	8.26
AW-14	3/1/2016	--	8.52	4.99	--
	5/1/2016	--		Not Measured	
	9/22/2016	--	8.05	5.46	--
	11/15/2016	--	7.46	6.05	--
	2/14/2017	--	8.66	4.85	--
	5/2/2017	--	8.19	5.32	--
	8/8/2017	--	8.09	5.42	--
	11/1/2017	--	8.45	5.06	--
	2/6/2018	--	8.81	4.70	--
	5/3/2018	--	8.41	5.10	--
	7/5/2018	--	7.49	6.02	--
	10/16/2018	--	8.16	5.35	--
	2/12/2019	--	7.80	5.71	--
	5/6/2019	--	8.03	5.48	--

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Groundwater Elevation and LNAPL Thickness
March 2016 to Current
IMTT Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-15	3/1/2016	10.65	10.75	4.72	0.10
	5/1/2016	9.40	9.66	5.94	0.26
	9/22/2016	9.25	10.31	5.98	1.06
	11/15/2016	9.48	10.46	5.76	0.98
	2/14/2017	9.91	11.12	5.29	1.21
	5/2/2017	10.75	11.94	4.46	1.19
	8/8/2017	9.30	10.26	5.94	0.96
	11/1/2017	10.18	11.26	5.04	1.08
	2/6/2018	10.57	11.56	4.67	0.99
	5/3/2018	10.50	11.52	4.73	1.02
	7/5/2018	9.91	10.95	5.32	1.04
	10/16/2018	9.96	11.12	5.25	1.16
	2/12/2019	9.65	11.10	5.52	1.45
	5/6/2019	11.60	11.82	3.75	0.22
AW-18	3/1/2016	7.06	8.60	5.64	1.54
	5/1/2016	7.00	8.75	5.66	1.75
	9/22/2016	6.70	9.45	5.82	2.75
	11/15/2016	6.29	7.74	6.42	1.45
	2/14/2017	6.09	7.31	6.65	1.22
	5/2/2017	6.95	7.80	5.85	0.85
	8/8/2017	6.16	6.40	6.72	0.24
	11/1/2017	6.87	8.52	5.81	1.65
	2/6/2018	6.64	7.28	6.19	0.64
	5/3/2018	6.65	7.52	6.14	0.87
	7/5/2018	6.07	6.50	6.79	0.43
	10/16/2018	6.09	7.40	6.64	1.31
	2/12/2019	6.30	6.50	6.59	0.20
	5/6/2019	6.67	7.57	6.12	0.90
AW-19	3/1/2016	12.40	12.45	3.09	0.05
	5/1/2016	--	12.26	3.24	--
	9/22/2016	11.97	11.99	3.53	0.02
	11/15/2016	--	11.60	3.90	--
	2/14/2017	--	12.11	3.39	--
	5/2/2017	--	12.50	3.00	--
	8/8/2017	--	11.51	3.99	--
	11/1/2017	--	12.13	3.37	--
	2/6/2018	--	12.41	3.09	--
	5/3/2018	--	12.32	3.18	--
	7/5/2018	--	11.86	3.64	--
	10/16/2018	--	11.95	3.55	--
	2/12/2019	--	12.50	3.00	
	5/6/2019	--	12.39	3.11	
AW-20	3/1/2016	--	12.20	3.47	--
	5/1/2016	--	12.06	3.61	--
	9/22/2016	--	11.16	4.51	--
	11/15/2016	--	11.04	4.63	--
	2/14/2017	--	11.80	3.87	--
	5/2/2017	--	12.58	3.09	--
	8/8/2017	--	9.96	5.71	--
	11/1/2017	--	11.35	4.32	--
	2/6/2018	--	12.28	3.39	--
	5/3/2018	--	12.05	3.62	--
	7/5/2018	--	11.00	4.67	--
	10/16/2018	--	10.91	4.76	--
	2/12/2019	--	11.50	4.17	--
	5/6/2019	--	12.09	3.58	--
AW-22	3/1/2016	12.65	17.72	1.74	5.07
	5/1/2016	12.75	16.42	1.84	3.67
	9/21/2016	11.20	15.75	3.27	4.55
	11/15/2016	11.93	11.95	3.20	0.02
	2/14/2017	11.62	14.00	3.16	2.38
	5/2/2017	12.18	14.55	2.60	2.37
	8/8/2017	11.08	14.30	3.58	3.22
	11/1/2017	12.58	12.65	2.54	0.07
	2/6/2018	12.26	14.18	2.59	1.92
	5/3/2018	12.18	13.95	2.69	1.77
	7/5/2018	12.26	12.36	2.86	0.10
	10/16/2018	11.38	14.27	3.33	2.89
	2/12/2019	11.21	13.40	3.60	2.19
	5/6/2019	12.81	12.83	2.32	0.02

Table 1

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Groundwater Elevation and LNAPL Thickness
March 2016 to Current
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Savannah, Chatham County, Georgia
VRP #1440101197

Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-24	3/1/2016	--	5.10	6.26	--
	5/1/2016	--	5.04	6.32	--
	9/22/2016	--	4.67	6.69	--
	11/15/2016	--	5.16	6.20	--
	2/14/2017	--	4.56	6.80	--
	5/2/2017	--	5.34	6.02	--
	8/8/2017	--	3.34	8.02	--
	11/1/2017	--	4.94	6.42	--
	2/6/2018	--	4.25	7.11	--
	5/3/2018	--	5.02	6.34	--
	7/5/2018	--	4.77	6.59	--
	10/16/2018	--	4.80	6.56	--
	2/12/2019	--	4.43	6.93	--
	5/6/2019	--	5.80	5.56	--
AW-25	3/1/2016	--	5.92	7.58	--
	5/1/2016	--	5.78	7.72	--
	9/22/2016	--	5.29	8.21	--
	11/15/2016	--	5.74	7.76	--
	2/14/2017	--	5.41	8.09	--
	5/2/2017	--	6.24	7.26	--
	8/8/2017	--	4.27	9.23	--
	11/1/2017	--	5.90	7.60	--
	2/6/2018	--	5.57	7.93	--
	5/3/2018	--	5.72	7.78	--
	7/5/2018	--	5.51	7.99	--
	10/16/2018	--	5.31	8.19	--
	2/12/2019	--	5.59	7.91	--
	5/6/2019	--	5.90	7.60	--
AW-26	3/1/2016	--	4.52	7.95	--
	5/1/2016	--	4.54	7.93	--
	9/22/2016	--	4.64	7.83	--
	11/15/2016	--	4.91	7.56	--
	2/14/2017	--	4.46	8.01	--
	5/2/2017	--	5.23	7.24	--
	8/8/2017	--	3.66	8.81	--
	11/1/2017	--	5.00	7.47	--
	2/6/2018	--	4.83	7.64	--
	5/3/2018	--	4.92	7.55	--
	7/5/2018	--	4.70	7.77	--
	10/16/2018	--	4.52	7.95	--
	2/12/2019	--	4.39	8.08	--
	5/6/2019	--	4.81	7.66	--
AW-27	3/1/2016	--	6.28	7.24	--
	5/1/2016	--	6.13	7.39	--
	9/22/2016	--	5.57	7.95	--
	11/15/2016	--	6.04	7.48	--
	2/14/2017	--	5.82	7.70	--
	5/2/2017	--	6.43	7.09	--
	8/8/2017	--	4.73	8.79	--
	11/1/2017	--	5.71	7.81	--
	2/6/2018	--	5.85	7.67	--
	5/3/2018	--	6.02	7.50	--
	7/5/2018	--	5.23	8.29	--
	10/16/2018	--	5.37	8.15	--
	2/12/2019	--	5.90	7.62	--
	5/6/2019	--	6.02	7.50	--
AW-28	3/1/2016	--	5.15	6.03	--
	5/1/2016	--	5.19	5.99	--
	9/22/2016	--	4.60	6.58	--
	11/15/2016	--	5.13	6.05	--
	2/14/2017	--	5.40	5.78	--
	5/2/2017	--	5.80	5.38	--
	8/8/2017	--	3.19	7.99	--
	11/1/2017	--	4.87	6.31	--
	2/6/2018	--	5.11	6.07	--
	5/3/2018	--	5.64	5.54	--
	7/5/2018	--	4.48	6.70	--
	10/16/2018	--	4.71	6.47	--
	2/12/2019	--	10.19	0.99	--
	5/6/2019	--	5.32	5.86	--

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-30	3/1/2016	--	5.35	8.05	--
	5/1/2016	--	5.31	8.09	--
	9/22/2016	--	5.39	8.01	--
	11/15/2016	--	5.59	7.81	--
	2/14/2017	--	5.29	8.11	--
	5/2/2017	--	5.95	7.45	--
	8/8/2017	--	4.47	8.93	--
	11/1/2017	--	5.73	7.67	--
	2/6/2018	--	5.54	7.86	--
	5/3/2018	--	5.74	7.66	--
	7/5/2018	--	5.48	7.92	--
	10/16/2018	--	5.35	8.05	--
	2/12/2019	--	5.36	8.04	--
	5/6/2019	--	5.65	7.75	--
AW-31	3/1/2016	--	2.72	7.58	--
	5/1/2016	--	2.60	7.70	--
	9/22/2016	--	2.10	8.20	--
	11/15/2016	--	1.80	8.50	--
	2/14/2017	--	2.40	7.90	--
	5/2/2017	--	2.76	7.54	--
	8/8/2017	--	1.21	9.09	--
	11/1/2017	--	2.22	8.08	--
	2/6/2018	--	2.55	7.75	--
	5/3/2018	--	2.85	7.45	--
	7/5/2018	--	1.63	8.67	--
	10/17/2018	--	4.33	5.97	--
	2/12/2019	--	2.58	7.72	--
	5/6/2019	--	2.77	7.53	--
AW-32	3/1/2016	--	10.40	3.99	--
	5/1/2016	--	9.60	4.79	--
	9/22/2016	--	9.37	5.02	--
	11/15/2016	--	9.70	4.69	--
	2/14/2017	9.49	9.49	4.90	Sheen
	5/2/2017	9.91	10.04	4.46	0.13
	8/8/2017	--	7.68	6.71	--
	11/1/2017	--	9.46	4.93	--
	2/6/2018	--	10.00	4.39	--
	5/3/2018	--	10.02	4.37	--
	7/5/2018	--	8.87	5.52	--
	10/16/2018	--	8.40	5.99	--
	2/12/2019	--	9.54	4.85	--
	5/6/2019	--	9.93	4.46	--
AW-33	3/1/2016	--	5.43	7.65	--
	5/1/2016	--	5.35	7.73	--
	9/22/2016	--	4.92	8.16	--
	11/15/2016	--	5.39	7.69	--
	2/14/2017	--	5.32	7.76	--
	5/2/2017	--	6.79	6.29	--
	8/8/2017	--	4.00	9.08	--
	11/1/2017	--	5.26	7.82	--
	2/6/2018	--	5.18	7.90	--
	5/3/2018	--	5.29	7.79	--
	7/5/2018	--	5.11	7.97	--
	10/16/2018	--	4.95	8.13	--
	2/12/2019	--	5.36	7.72	--
	5/6/2019	--	5.60	7.48	--
AW-34	3/1/2016	--	7.57	5.70	--
	5/1/2016	--	7.36	5.91	--
	9/22/2016	--	6.40	6.87	--
	11/15/2016	--	7.11	6.16	--
	2/14/2017	--	7.36	5.91	--
	5/2/2017	--	8.04	5.23	--
	8/8/2017	--	5.50	7.77	--
	11/1/2017	--	6.60	6.67	--
	2/6/2018	--	7.18	6.09	--
	5/3/2018	--	7.61	5.66	--
	7/5/2018	--	6.79	6.48	--
	10/16/2018	--	6.73	6.54	--
	2/12/2019	--	7.38	5.89	--
	5/6/2019	--	7.85	5.42	--

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Groundwater Elevation and LNAPL Thickness
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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-36	3/1/2016	--	5.47	8.18	--
	5/1/2016	--	5.42	8.23	--
	9/22/2016	--	5.23	8.42	--
	11/15/2016	--	5.82	7.83	--
	2/14/2017	--	5.17	8.48	--
	5/2/2017	--	6.22	7.43	--
	8/8/2017	--	4.06	9.59	--
	11/1/2017	--	5.79	7.86	--
	2/6/2018	--	5.81	7.84	--
	5/3/2018	--	5.68	7.97	--
	7/5/2018	--	5.49	8.16	--
	10/16/2018	--	5.33	8.32	--
	2/12/2019	--	5.31	8.34	--
	5/6/2019	--	5.81	7.84	--
AW-37	3/1/2016	--	11.37	2.96	--
	5/1/2016	--	11.24	3.09	--
	9/22/2016	--	10.95	3.38	--
	11/15/2016	--	10.49	3.84	--
	2/14/2017	--	10.98	3.35	--
	5/2/2017	--	11.53	2.80	--
	8/8/2017	--	10.40	3.93	--
	11/1/2017	--	11.06	3.27	--
	2/6/2018	--	11.32	3.01	--
	5/3/2018	--	11.18	3.15	--
	7/5/2018	--	10.82	3.51	--
	10/16/2018	--	10.75	3.58	--
	2/12/2019	--	10.92	3.41	--
	5/6/2019	--	11.17	3.16	--
AW-38	3/1/2016	--	4.45	7.58	--
	5/1/2016	--	Not Measured		
	9/22/2016	3.80	3.82	8.23	0.02
	11/15/2016	4.17	4.18	7.86	0.01
	2/14/2017	4.48	4.49	7.55	0.01
	5/2/2017	5.11	5.12	6.92	0.01
	8/8/2017	3.37	3.52	8.64	0.15
	11/1/2017	--	4.06	7.97	--
	2/6/2018	4.51	4.59	7.51	0.08
	5/3/2018	4.74	4.78	7.28	0.04
	7/5/2018	3.83	3.85	8.20	0.02
	10/16/2018	3.79	3.80	8.24	0.01
	2/12/2019	3.90	3.92	8.13	0.02
	5/6/2019	6.61	6.67	5.41	0.06
AW-41	3/1/2016	--	9.15	6.00	--
	5/1/2016	--	9.71	5.44	--
	9/22/2016	--	9.15	6.00	--
	11/15/2016	--	9.47	5.68	--
	2/14/2017	--	8.97	6.18	--
	5/2/2017	--	9.50	5.65	--
	8/8/2017	--	8.04	7.11	--
	11/1/2017	--	9.15	6.00	--
	2/6/2018	--	9.16	5.99	--
	5/3/2018	--	9.28	5.87	--
	7/5/2018	--	9.18	5.97	--
	10/17/2018	--	8.72	6.43	--
	2/12/2019	--	8.60	6.55	--
	5/6/2019	--	9.20	5.95	--
AW-42	3/1/2016	--	Not Measured		
	5/1/2016	1.69	1.70	7.74	0.01
	9/22/2016	--	1.23	8.20	--
	11/15/2016	--	1.93	7.50	--
	2/14/2017	--	1.50	7.93	--
	5/2/2017	--	2.11	7.32	--
	8/8/2017	--	0.00	9.43	--
	11/1/2017	--	1.36	8.07	--
	2/6/2018	--	1.68	7.75	--
	5/3/2018	--	1.32	8.11	--
	7/5/2018	--	1.23	8.20	--
	10/16/2018	--	1.30	8.13	--
	2/12/2019	--	1.60	7.83	--
	5/6/2019	--	1.90	7.53	--

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-44	3/1/2016	--	10.03	3.38	--
	5/1/2016	--	10.00	3.41	--
	9/22/2016	--	9.65	3.76	--
	11/15/2016	--	9.39	4.02	--
	2/14/2017	--	9.55	3.86	--
	5/2/2017	--	10.11	3.30	--
	8/8/2017	--	9.25	4.16	--
	11/1/2017	--	9.84	3.57	--
	2/6/2018	--	9.87	3.54	--
	5/3/2018	--	9.80	3.61	--
	7/5/2018	--	11.60	1.81	--
	10/16/2018	--	9.56	3.85	--
	2/12/2019	--	9.78	3.63	--
	5/6/2019	--	9.75	3.66	--
AW-45	3/1/2016	--	12.14	2.99	--
	5/1/2016	--	12.12	3.01	--
	9/22/2016	--	11.78	3.35	--
	11/15/2016	--	11.51	3.62	--
	2/14/2017	--	11.88	3.25	--
	5/2/2017	--	12.22	2.91	--
	8/8/2017	--	11.22	3.91	--
	11/1/2017	--	11.79	3.34	--
	2/6/2018	--	12.10	3.03	--
	5/3/2018	--	11.98	3.15	--
	7/5/2018	--	9.54	5.59	--
	10/16/2018	--	11.56	3.57	--
	2/12/2019	--	11.70	3.43	--
	5/6/2019	--	12.06	3.07	--
AW-48	3/1/2016	--	6.82	4.31	--
	5/1/2016	--	6.10	5.03	--
	9/22/2016	--	5.58	5.55	--
	11/15/2016	--	5.49	5.64	--
	2/14/2017	--	5.72	5.41	--
	5/2/2017	--	6.39	4.74	--
	8/8/2017	--	4.82	6.31	--
	11/1/2017	--	5.72	5.41	--
	2/6/2018	--	5.98	5.15	--
	5/3/2018	--	6.11	5.02	--
	7/5/2018	--	5.42	5.71	--
	10/16/2018	--	5.35	5.78	--
	2/12/2019	--	5.76	5.37	--
	5/6/2019	--	5.93	5.20	--
AW-49	3/1/2016	13.10	15.94	1.99	2.84
	5/1/2016	12.73	16.76	2.18	4.03
	9/22/2016	13.22	13.47	2.24	0.25
	11/15/2016	13.00	13.19	2.47	0.19
	2/14/2017	12.99	13.21	2.48	0.22
	5/2/2017	13.69	13.96	1.77	0.27
	8/8/2017	12.24	12.45	3.23	0.21
	11/1/2017	13.20	13.50	2.26	0.30
	2/6/2018	13.21	13.54	2.24	0.33
	5/3/2018	13.33	13.65	2.12	0.32
	7/5/2018	13.18	13.45	2.28	0.27
	10/16/2018	12.57	12.82	2.89	0.25
	2/12/2019	12.65	12.85	2.82	0.20
	5/6/2019	13.19	13.39	2.28	0.20
AW-51	3/1/2016	10.48	11.41	2.16	0.93
	5/1/2016	9.90	10.62	2.76	0.72
	9/22/2016	10.35	11.67	2.24	1.32
	11/15/2016	9.41	9.62	3.31	0.21
	2/14/2017	9.84	10.17	2.87	0.33
	5/2/2017	10.85	11.34	1.84	0.49
	8/8/2017	9.21	9.98	3.45	0.77
	11/1/2017	10.31	11.12	2.34	0.81
	2/6/2018	10.43	11.29	2.22	0.86
	5/3/2018	9.93	11.45	2.64	1.52
	7/5/2018	10.08	11.20	2.54	1.12
	10/16/2018	9.52	10.75	3.08	1.23
	2/12/2019	9.70	11.04	2.89	1.34
	5/6/2019	10.36	11.75	2.22	1.39

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-52	3/1/2016	12.80	15.69	2.52	2.89
	5/1/2016	12.47	15.56	2.82	3.09
	9/22/2016	12.40	15.52	2.88	3.12
	11/15/2016	11.68	15.00	3.58	3.32
	2/14/2017			Not Measured	
	5/2/2017	13.39	16.42	1.91	3.03
	8/8/2017	11.72	14.84	3.56	3.12
	11/1/2017	12.68	15.32	2.67	2.64
	2/6/2018	13.08	15.22	2.35	2.14
	5/3/2018	12.82	15.40	2.54	2.58
	7/5/2018	12.23	14.92	3.12	2.69
	10/16/2018	12.03	15.03	3.27	3.00
	2/12/2019	12.10	14.90	3.23	2.80
	5/6/2019	12.65	15.15	2.73	2.50
AW-53	3/1/2016	6.62	6.92	3.67	0.30
	5/1/2016	6.51	6.76	3.78	0.25
	9/22/2016	6.06	6.28	4.24	0.22
	11/15/2016	5.88	6.36	4.38	0.48
	2/14/2017	6.39	6.60	3.91	0.21
	5/2/2017	6.77	7.34	3.48	0.57
	8/8/2017	5.50	5.72	4.80	0.22
	11/1/2017	6.25	6.44	4.05	0.19
	2/6/2018	6.51	6.83	3.77	0.32
	5/3/2018	6.49	6.95	3.77	0.46
	7/5/2018	6.02	6.21	4.28	0.19
	10/16/2018	6.20	6.32	4.11	0.12
	2/12/2019	6.00	6.60	4.24	0.60
	5/6/2019	6.54	6.90	3.74	0.36
AW-54	3/1/2016	5.95	14.88	3.41	8.93
	5/1/2016	5.83	15.81	3.37	9.98
	9/22/2016	5.51	9.60	4.55	4.09
	11/15/2016	5.08	15.84	4.01	10.76
	2/14/2017	5.05	15.62	4.07	10.57
	5/2/2017	5.48	19.23	3.17	13.75
	8/8/2017	6.12	6.32	4.51	0.20
	11/1/2017	5.54	12.78	4.06	7.24
	2/6/2018	5.14	15.00	4.08	9.86
	5/3/2018	6.79	7.00	3.84	0.21
	7/5/2018	5.61	9.22	4.52	3.61
	10/16/2018	4.62	15.89	4.39	11.27
	2/12/2019	4.40	14.62	4.77	10.22
	5/6/2019	4.83	17.74	3.95	12.91
AW-56	3/1/2016	9.32	14.05	2.64	4.73
	5/1/2016	8.48	14.55	3.28	6.07
	9/22/2016	9.39	15.09	2.43	5.70
	11/15/2016	7.88	13.39	3.97	5.51
	2/14/2017	8.63	13.85	3.26	5.22
	5/2/2017	11.15	11.45	1.46	0.30
	8/8/2017	11.04	11.25	1.58	0.21
	11/1/2017	12.31	14.05	0.09	1.74
	2/6/2018	11.94	12.14	0.68	0.20
	5/3/2018	12.16	12.35	0.46	0.19
	7/5/2018	11.96	12.24	0.65	0.28
	10/16/2018	10.84	11.14	1.77	0.30
	2/12/2019	11.75	11.85	2.89	0.10
	5/6/2019	12.40	15.91	1.74	3.51
AW-57	3/1/2016			Not Measured	
	5/1/2016	8.64	10.23	3.27	1.59
	9/22/2016	8.45	9.27	3.57	0.82
	11/15/2016	7.96	9.77	3.92	1.81
	2/14/2017	8.89	9.09	3.22	0.20
	5/2/2017	9.33	9.74	2.75	0.41
	8/8/2017	8.12	8.22	4.01	0.10
	11/1/2017	8.68	9.34	3.37	0.66
	2/6/2018	9.16	9.96	2.87	0.80
	5/3/2018	8.98	9.87	3.03	0.89
	7/5/2018	8.40	9.22	3.62	0.82
	10/18/2018	8.45	9.28	3.57	0.83
	2/12/2019	8.70	9.00	3.40	0.30
	5/6/2019	9.00	9.62	3.05	0.62

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-58	3/1/2016	--	8.61	NS	--
	5/1/2016	--	8.51	NS	--
	9/22/2016	--	8.15	NS	--
	11/15/2016	--	7.44	NS	--
	2/14/2017	--	6.04	NS	--
	5/2/2017	--	8.91	NS	--
	8/8/2017	--	7.45	NS	--
	11/1/2017	--	8.39	NS	--
	2/6/2018	--	5.56	NS	--
	5/3/2018	--	8.43	NS	--
	7/5/2018	--	8.11	NS	--
	10/16/2018	7.41	7.70	NS	0.29
	2/12/2019	7.96	7.98	NS	0.02
	5/6/2019	--	8.25	NS	--
AW-62	3/1/2016	--	9.24	NS	--
	5/1/2016	--	10.60	NS	--
	9/22/2016	9.60	9.60	NS	Sheen
	11/15/2016	9.42	9.42	NS	Sheen
	2/14/2017	4.92	4.92	NS	Sheen
	5/2/2017	10.92	10.92	NS	Sheen
	8/8/2017	--	5.40	NS	--
	11/1/2017	--	9.24	NS	Sheen
	2/6/2018	--	7.75	NS	Sheen
	5/3/2018	--	6.31	NS	--
	7/5/2018	--	9.09	NS	--
	10/16/2018	--	5.59	NS	--
	2/12/2019	--	5.63	NS	Sheen
	5/6/2019	--	9.22	NS	--
AW-65	3/1/2016	11.45	13.20	1.56	1.75
	5/1/2016	11.53	13.51	1.45	1.98
	9/22/2016	10.75	12.41	2.27	1.66
	11/15/2016	10.41	12.62	2.53	2.21
	2/14/2017	11.01	12.13	2.09	1.12
	5/2/2017	11.78	13.82	1.19	2.04
	8/8/2017	9.30	11.50	3.64	2.20
	11/1/2017	10.57	12.12	2.47	1.55
	2/6/2018	11.70	12.87	1.39	1.17
	5/3/2018	11.20	12.85	1.82	1.65
	7/5/2018	10.20	11.87	2.82	1.67
	10/16/2018	9.71	11.40	3.31	1.69
	2/12/2019	9.81	10.65	3.33	0.84
	5/6/2019	10.95	11.60	2.22	0.65
AW-67	3/1/2016	--	12.33	-1.01	--
	5/1/2016	--	13.37	-2.05	--
	9/22/2016	--	8.85	2.47	--
	11/15/2016	--	12.33	-1.01	--
	2/14/2017	--	6.10	5.22	--
	5/2/2017	--	11.09	0.23	--
	8/8/2017	--	7.89	3.43	--
	11/1/2017	--	10.55	0.77	--
	2/6/2018	--	10.45	0.87	--
	5/3/2018	--	9.16	2.16	--
	7/5/2018	--	10.72	0.60	--
	10/16/2018	--	8.41	2.91	--
	2/12/2019	--	8.44	2.88	--
	5/6/2019	--	9.79	1.53	--
AW-68	3/1/2016	11.75	15.11	1.56	3.36
	5/1/2016	10.48	13.90	2.82	3.42
	9/22/2016	11.66	16.90	1.37	5.24
	11/15/2016	10.88	18.10	1.87	7.22
	2/14/2017	9.89	17.90	2.74	8.01
	5/2/2017	11.19	18.46	1.55	7.27
	8/8/2017	9.56	16.91	3.17	7.35
	11/1/2017	11.02	19.24	1.58	8.22
	2/6/2018	11.69	11.92	2.08	0.23
	5/3/2018	11.46	11.95	2.27	0.49
	7/5/2018	11.48	13.97	1.96	2.49
	10/16/2018	10.90	10.93	2.90	0.03
	2/12/2019	10.70	11.23	3.02	0.53
	5/6/2019	11.80	12.90	1.84	1.10

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-69	3/1/2016				Not Measured
	5/1/2016	--	6.90	2.54	--
	9/22/2016	--	4.50	4.94	--
	11/15/2016	--	7.36	2.08	--
	2/14/2017	--	6.39	3.05	--
	5/2/2017	--	7.40	2.04	--
	8/8/2017	--	5.45	3.99	--
	11/1/2017	--	6.62	2.82	--
	2/6/2018	--	7.43	2.01	--
	5/3/2018	--	7.25	2.19	--
	7/5/2018	--	6.42	3.02	--
	10/16/2018	--	6.44	3.00	--
	2/12/2019	--	6.41	3.03	--
	5/6/2019	--	7.00	2.44	--
AW-70	3/1/2016	--	11.18	1.07	--
	5/1/2016	--	11.11	1.14	--
	9/22/2016	--	9.57	2.68	--
	11/15/2016	--	10.44	1.81	--
	2/14/2017	--	10.06	2.19	--
	5/2/2017	--	10.85	1.40	--
	8/8/2017	--	8.87	3.38	--
	11/1/2017	--	10.52	1.73	--
	2/6/2018	--	10.67	1.58	--
	5/3/2018	--	10.11	2.14	--
	7/5/2018	--	10.38	1.87	--
	10/16/2018	--	9.20	3.05	--
	2/12/2019	--	9.42	2.83	--
	5/6/2019	--	10.60	1.65	--
AW-71	3/1/2016	--	11.05	2.24	--
	5/1/2016	--	10.79	2.50	--
	9/22/2016	--	10.53	2.76	--
	11/15/2016	--	10.22	3.07	--
	2/14/2017	--	10.91	2.38	--
	5/2/2017	--	11.46	1.83	--
	8/8/2017	--	9.75	3.54	--
	11/1/2017	--	10.64	2.65	--
	2/6/2018	--	11.55	1.74	--
	5/3/2018	--	11.28	2.01	--
	7/5/2018	--	10.45	2.84	--
	10/16/2018	--	10.45	2.84	--
	2/12/2019	--	11.62	1.67	--
	5/6/2019	--	11.00	2.29	--
AW-72	3/1/2016	--	8.78	1.34	--
	5/1/2016	--	7.25	2.87	--
	9/22/2016	--	8.85	1.27	--
	11/15/2016	--	6.57	3.55	--
	2/14/2017	--	7.67	2.45	--
	5/2/2017	--	9.76	0.36	--
	8/8/2017	--	7.28	2.84	--
	11/1/2017	--	9.26	0.86	--
	2/6/2018	--	8.28	1.84	--
	5/3/2018	--	7.78	2.34	--
	7/5/2018	--	8.84	1.28	--
	10/16/2018	--	7.26	2.86	--
	2/12/2019	--	7.11	3.01	--
	5/6/2019	--	5.56	4.56	--
AW-73	3/1/2016				Not Measured
	5/1/2016				Not Measured
	9/22/2016				Not Measured
	11/15/2016	--	8.67	3.37	--
	2/14/2017	--	9.26	2.78	--
	5/2/2017	--	9.68	2.36	--
	8/8/2017				Not Measured
	11/1/2017	--	9.02	3.02	--
	2/6/2018	--	9.60	2.44	--
	5/3/2018	--	9.42	2.62	--
	7/5/2018	--	8.76	3.28	--
	10/16/2018	--	8.70	3.34	--
	2/12/2019	--	8.80	3.24	--
	5/6/2019	--	9.32	2.72	--

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-74	3/1/2016	9.27	10.99	0.44	1.72
	5/1/2016	6.78	7.96	3.01	1.18
	9/22/2016	9.53	13.71	-0.18	4.18
	11/15/2016	6.46	7.05	3.41	0.59
	2/14/2017	7.11	10.21	2.40	3.10
	5/2/2017	10.11	13.90	-0.70	3.79
	8/8/2017	6.52	9.55	3.00	3.03
	11/1/2017	10.32	10.51	-0.39	0.19
	2/6/2018	7.24	9.23	2.43	1.99
	5/3/2018	7.41	9.16	2.29	1.75
	7/5/2018	9.31	11.03	0.40	1.72
	10/16/2018	6.74	9.31	2.84	2.57
	2/12/2019	6.71	9.01	2.91	2.30
	5/6/2019	8.75	12.15	0.71	3.40
AW-75	3/1/2016	--	11.04	NS	--
	5/1/2016	--	6.57	NS	--
	9/22/2016	--	11.74	NS	--
	11/15/2016	--	6.40	NS	--
	2/14/2017	--	7.35	NS	--
	5/2/2017	--	12.36	NS	--
	8/8/2017	--	7.56	NS	--
	11/1/2017	--	11.59	NS	--
	2/6/2018	--	8.10	NS	--
	5/3/2018	--	7.58	NS	--
	7/5/2018	--	11.37	NS	--
	10/16/2018	--	6.95	NS	--
	2/12/2019	--	6.92	NS	--
	5/6/2019	--	10.33	NS	--
AW-76	3/1/2016	--	13.61	NS	--
	5/1/2016	--	14.07	NS	--
	9/22/2016	--	12.41	NS	--
	11/15/2016	--	13.86	NS	--
	2/14/2017	--	7.34	NS	--
	5/2/2017	--	13.00	NS	--
	8/8/2017	--	7.49	NS	--
	11/1/2017	--	12.81	NS	--
	2/6/2018	--	8.14	NS	--
	5/3/2018	--	7.46	NS	--
	7/5/2018	--	12.75	NS	--
	10/16/2018	--	6.90	NS	--
	2/12/2019	--	7.45	NS	--
	5/6/2019	--	13.21	NS	--
AW-77	3/1/2016	--	7.91	NS	--
	5/1/2016	--	9.59	NS	--
	9/22/2016	--	9.59	NS	--
	11/15/2016	--	9.18	NS	--
	2/14/2017	--	4.43	NS	--
	5/2/2017	--	9.71	NS	--
	8/8/2017	--	5.25	NS	--
	11/1/2017	--	9.22	NS	--
	2/6/2018	--	6.92	NS	--
	5/3/2018	--	5.98	NS	--
	7/5/2018	--	9.16	NS	--
	10/16/2018	--	5.07	NS	--
	2/12/2019	--	5.60	NS	--
	5/6/2019	--	9.41	NS	--
AW-78	3/1/2016	--	6.91	NS	--
	5/1/2016	--	6.77	NS	--
	9/22/2016	--	6.36	NS	--
	11/15/2016	--	6.42	NS	--
	2/14/2017	--	6.13	NS	--
	5/2/2017	--	7.42	NS	--
	8/8/2017	--	5.25	NS	--
	11/1/2017	--	6.37	NS	--
	2/6/2018	--	7.15	NS	--
	5/3/2018	--	6.80	NS	--
	7/5/2018	--	6.40	NS	--
	10/16/2018	--	5.80	NS	--
	2/12/2019	--	6.24	NS	--
	5/6/2019	--	7.93	NS	--

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
AW-79	3/1/2016	--	10.95	NS	--
	5/1/2016	--	11.03	NS	--
	9/22/2016	--	5.07	NS	--
	11/15/2016	--	10.73	NS	--
	2/14/2017	--	5.55	NS	--
	5/2/2017	--	7.29	NS	--
	8/8/2017	--	4.82	NS	--
	11/1/2017	--	9.55	NS	--
	2/6/2018	--	6.50	NS	--
	5/3/2018	--	5.18	NS	--
	7/5/2018	--	9.73	NS	--
	10/16/2018	--	4.44	NS	--
	2/12/2019	--	5.00	NS	--
	5/6/2019	--	9.53	NS	--
AW-82	3/1/2016	9.95	12.84	NS	2.89
	5/1/2016	9.65	12.63	NS	2.98
	9/22/2016	9.54	12.62	NS	3.08
	11/15/2016	8.97	11.84	NS	2.87
	2/14/2017	9.77	12.35	NS	2.58
	5/2/2017	11.10	11.41	NS	0.31
	8/8/2017	9.60	9.72	NS	0.12
	11/1/2017	10.11	11.72	NS	1.61
	2/6/2018	10.85	11.08	NS	0.23
	5/3/2018	10.70	10.88	NS	0.18
	7/5/2018	10.20	10.31	NS	0.11
	10/16/2018	9.99	10.02	NS	0.03
	2/12/2019	9.80	10.00	NS	0.20
	5/6/2019	10.06	11.20	NS	1.14
RAIL LOADING - N	3/1/2016	--	7.31	5.30	--
	5/1/2016	--	7.25	5.36	--
	9/22/2016	--	6.42	6.19	--
	11/15/2016	--	7.29	5.32	--
	2/14/2017	--	7.22	5.39	--
	5/2/2017	--	8.02	4.59	--
	8/8/2017	--	4.58	8.03	--
	11/1/2017	--	6.53	6.08	--
	2/6/2018	--	7.00	5.61	--
	5/3/2018	--	7.45	5.16	--
	7/5/2018	--	6.15	6.46	--
	10/16/2018	--	6.09	6.52	--
	2/12/2019	--	6.81	5.80	--
	5/6/2019	--	7.61	5.00	--
RAIL LOADING - S	3/1/2016	--	6.22	6.08	--
	5/1/2016	--	6.10	6.20	--
	9/22/2016	--	5.28	7.02	--
	11/15/2016	--	6.10	6.20	--
	2/14/2017	--	5.91	6.39	--
	5/2/2017	--	6.63	5.67	--
	8/8/2017	--	3.42	8.88	--
	11/1/2017	--	5.48	6.82	--
	2/6/2018	--	9.01	3.29	--
	5/3/2018	--	5.92	6.38	--
	7/5/2018	--	5.21	7.09	--
	10/17/2018	--	5.00	7.30	--
	2/12/2019	--	5.37	6.93	--
	5/6/2019	--	6.10	6.20	--
RAIL LOADING - M	3/1/2016			Damaged Casing	
	5/1/2016			Damaged Casing	
	9/22/2016			Damaged Casing	
	11/15/2016			Damaged Casing	
	2/14/2017			Damaged Casing	
	5/2/2017			Damaged Casing	
	8/8/2017			Damaged Casing	
	11/1/2017			Damaged Casing	
	2/6/2018			Damaged Casing	
	5/3/2018			Damaged Casing	
	7/5/2018			Damaged Casing	
	10/16/2018			Damaged Casing	
	2/12/2019			Damaged Casing	
	5/6/2019			Damaged Casing	

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Location ID	Measurement Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Groundwater Elevation (ft AMSL)	LNAPL Thickness (ft)
POD - 1	3/1/2016	--	11.60	NS	--
	5/1/2016	--	12.04	NS	--
	9/22/2016	--	10.35	NS	--
	11/15/2016	--	11.43	NS	--
	2/14/2017	--	4.65	NS	--
	5/2/2017	--	10.77	NS	--
	8/8/2017	--	4.45	NS	--
	11/1/2017	--	9.31	NS	Sheen
	2/6/2018	--	9.31	NS	Sheen
	5/3/2018	--	5.82	NS	--
	7/5/2018	--	9.82	NS	--
	10/16/2018	--	5.20	NS	--
	2/12/2019	--	5.77	NS	--
	5/6/2019	--	10.15	NS	--

Notes:

Dash (-) indicates not applicable
 NS = Not Surveyed
 ft btoc = feet below top of casing
 ft AMSL = feet above mean sea level

Table 2

LNAPL Removal Summary
IMTT, Epic LLC - Seventh Semi-Annual VRP Progress Report
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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-9	Short-term Skimming Test			49.3	
	9/14/2016	3.93	--	49.3	Installed LNAPL Skimmer
	9/21/2016	0.35	31.7	81.0	
	9/28/2016	0.26	20.3	101.3	
	10/5/2016	0.23	19.0	120.3	LNAPL skimmer shutdown due to Hurricane Matthew
	10/13/2016	4.06	0.0	120.3	LNAPL skimmer restarted
	10/20/2016	0.11	97.0	217.3	LNAPL skimmer shutdown due to nearly full tank
	10/28/2016	3.40	0.0	217.3	LNAPL skimmer restarted
	11/4/2016	3.45	2.0	219.3	
	11/15/2016	2.89	0.0	219.3	Batteries dead, system restarted
	11/22/2016	0.27	4.5	223.8	
	11/29/2016	0.34	26.5	250.3	
	12/5/2016	2.83	2.0	252.3	Batteries dead, system restarted
	12/7/2016	0.20	46.6	298.9	
	12/14/2016	0.95	14.0	312.9	Batteries dead, system restarted
	12/21/2016	0.33	21.7	334.6	
	12/27/2016	0.28	16.7	351.3	
	1/4/2017	0.08	53.4	404.6	
	1/9/2017	0.24	24.8	429.4	
	1/19/2017	0.12	39.0	468.4	
	1/26/2017	0.28	30.0	498.4	Estimated
	1/31/2017	0.18	24.6	523.0	
	2/7/2017	0.23	25.4	548.4	
	2/13/2017	0.30	22.0	570.4	
	2/14/2017	0.32	4.2	574.6	
	2/23/2017	0.27	34.1	608.7	
	3/3/2017	2.20	2.5	611.2	
	3/7/2017	2.37	16.7	627.8	
	3/10/2017	0.51	20.8	648.7	
	3/16/2017	2.55	8.8	657.5	Batteries dead, system restarted
	3/23/2017	1.07	55.0	712.5	Batteries dead, system restarted
	3/31/2017	0.22	15.0	727.5	Estimated
	4/3/2017	0.24	11.2	738.7	
	4/13/2017	0.18	30.4	769.1	
	4/18/2017	0.16	13.9	783.0	
	4/27/2017	0.11	25.1	808.1	
	5/2/2017	0.11	9.5	817.6	
	5/10/2017	0.11	27.0	844.6	
	5/17/2017	0.10	15.0	859.6	
	5/26/2017	0.08	28.5	888.1	
	6/1/2017	0.25	14.5	902.6	
	6/8/2017	0.20	10.5	913.1	
	6/15/2017	0.16	10.1	923.2	
	6/20/2017	0.17	7.4	930.6	
	6/22/2017	0.18	7.0	937.6	
	6/26/2017	0.15	6.0	943.6	
	6/30/2017	0.21	4.2	947.8	
	7/7/2017	0.13	12.0	959.8	
	7/12/2017	0.16	11.8	971.6	
	7/19/2017	0.19	9.2	980.8	
	7/26/2017	0.04	22.2	1003.0	
	8/2/217	0.23	6.8	1009.8	
	8/9/2017	0.07	13.2	1023.0	
	8/17/2017	0.22	18.0	1041.0	
	8/22/2017	0.18	11.8	1052.8	
	8/30/2017	0.08	51.7	1104.5	
	9/6/2017	0.10	5.5	1110.0	Shutdown due to Hurricane Irma
	9/21/2017	3.43	0.0	1110.0	LNAPL skimmer restarted
	9/22/2017	0.20	5.0	1115.0	
	9/29/2017	0.24	7.6	1122.6	
	10/6/2017	0.21	3.9	1126.5	
	10/12/2017	0.61	5.0	1131.5	Estimated
	10/19/2017	0.23	6.0	1137.5	
	11/2/2017	0.23	16.0	1153.5	
	11/8/2017	0.24	4.5	1158.0	
	11/15/2017	0.22	10.5	1168.5	
	11/22/2017	0.27	9.0	1177.5	
	11/30/2017	2.15	7.0	1184.5	Estimated
	12/6/2017	0.23	20.0	1204.5	
	12/13/2017	0.19	10.0	1214.5	
	12/21/2017	0.20	25.0	1239.5	
	12/28/2017	0.24	17.0	1256.5	
	1/5/2018	0.28	24.9	1281.4	
	1/12/2018	0.29	29.1	1310.5	
	1/19/2018	0.25	18.0	1328.5	
	1/26/2018	0.31	28.0	1356.5	
	2/1/2018	0.29	24.0	1380.5	
	2/7/2018	0.37	22.0	1402.5	
	2/15/2018	0.22	25.0	1427.5	
	2/22/2018	0.26	21.0	1448.5	
	2/28/2018	0.21	11.0	1459.5	
	3/8/2018	0.36	21.0	1480.5	
	3/15/2018	0.20	14.0	1494.5	
	3/22/2018	1.50	8.0	1502.5	System off due to malfunction
	3/29/2018	2.42	0.0	1502.5	System off due to malfunction
	5/25/2018	0.75	5.0	1507.5	System restarted
	5/31/2018	1.94	9.3	1516.8	System batteries dead on arrival
	6/7/2018	0.21	12.4	1529.2	
	6/14/2018	0.19	5.3	1534.5	
	6/22/2018	0.22	9.2	1543.7	

Table 2

LNAPL Removal Summary
IMTT, Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
	6/28/2018	0.23	0.0	1543.7	
	7/5/2018	0.12	11.0	1554.7	
	7/9/2018	0.16	5.0	1559.7	
	7/19/2018	0.24	9.0	1568.7	
	7/25/2018	0.21	0.0	1568.7	
	8/1/2018	0.24	8.5	1577.2	
	8/9/2018	0.22	6.2	1583.4	
	8/16/2018	0.24	6.0	1589.4	
	8/23/2018	0.21	7.3	1596.7	
	8/30/2018	0.25	2.0	1598.7	
	9/5/2018	0.26	6.0	1604.7	
	9/14/2018	0.30	8.0	1612.7	
	9/21/2018	0.25	4.0	1616.7	
	9/25/2018	0.24	8.0	1624.7	
	10/4/2018	0.17	2.4	1627.1	
	10/16/2018	1.10	6.2	1633.3	
	10/23/2018	2.17	0.0	1633.3	
	11/1/2018	1.02	12.7	1646.0	
	11/8/2018	0.30	8.5	1654.5	
	11/16/2018	0.82	4.0	1658.5	
	11/20/2018	1.74	1.7	1660.2	
	11/29/2018	--	0.0	1660.2	system off and not firing
	12/5/2018	0.11	0.0	1660.2	
	12/10/2018	--	0.0	1660.2	
	12/14/2018	2.77	0.0	1660.2	
	12/19/2018	2.85	0.0	1660.2	
	12/28/2018	0.12	20.3	1680.5	system not firing correctly
	1/3/2019	1.21	0.0	1680.5	
	1/7/2019	0.22	1.0	1681.5	
	1/18/2019	0.23	21.0	1702.5	
	1/24/2019	3.07	0.0	1702.5	system shut down for replacement parts
	1/31/2019	1.36	13.5	1716.0	
	2/8/2019	0.19	16.3	1732.3	
	2/13/2019	0.29	10.3	1742.6	
	2/21/2019	0.36	10.4	1753.0	
	3/1/2019	0.32	13.9	1766.9	
	3/7/2019	1.66	5.3	1772.2	system not firing correctly
	3/13/2019	2.26	5.2	1777.4	system inlet clogged
	3/21/2019	0.21	13.9	1791.3	
	3/28/2019	0.25	8.7	1800.0	
	4/3/2019	0.27	8.8	1808.8	
	4/10/2019	0.27	9.0	1817.8	recovery estimated due to tank cleanout
	4/18/2019	2.39	3.3	1821.1	
	4/26/2019	2.25	4.1	1825.2	
	5/3/2019	1.89	12.0	1837.2	panel malfunction
	5/7/2019	0.23	9.4	1846.6	
					LNAPL Skimming Underway

Table 2

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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-49	Short-term Skimming Test			45.3	
	9/14/2016	3.65	--	45.3	Installed LNAPL Skimmer
	9/21/2016	0.29	134.4	179.7	
	9/28/2016	0.23	70.8	250.5	
	10/5/2016	0.13	55.5	306.0	LNAPL skimmer shutdown due to Hurricane Matthew
	10/13/2016	4.73	0.0	306.0	LNAPL skimmer restarted
	10/20/2016	3.16	267.0	573.0	LNAPL skimmer shutdown due to full tank
	10/28/2016	3.25	0.0	573.0	LNAPL skimmer restarted
	11/4/2016	0.32	134.0	707.0	
	11/15/2016	0.19	222.0	929.0	LNAPL skimmer shutdown due to full tank
	11/22/2016	1.30	65.0	994.0	LNAPL skimmer restarted
	11/29/2016	1.38	50.0	1044.0	LNAPL skimmer shutdown due to full tank
	12/7/2016	0.53	0.0	1044.0	LNAPL skimmer shutdown due to full tank
	12/14/2016	0.65	0.0	1044.0	LNAPL skimmer shutdown due to full tank
	12/21/2016	1.37	0.0	1044.0	LNAPL skimmer restarted
	12/27/2016	0.37	29.7	1073.7	
	1/4/2017	0.21	38.8	1112.5	
	1/9/2017	0.27	15.9	1128.4	
	1/19/2017	2.03	15.7	1144.1	
	1/20/2017	1.38	5.4	1149.5	System off upon arrival
	1/23/2017	1.01	0.0	1149.5	System off upon arrival
	1/26/2017	0.30	20.0	1169.5	Estimated
	1/31/2017	0.25	21.7	1191.2	
	2/7/2017	0.13	21.5	1212.7	
	2/13/2017	0.31	27.0	1239.7	
	2/14/2017	0.22	1.7	1241.4	
	2/23/2017	0.21	28.4	1269.8	
	3/3/2017	1.88	11.6	1281.4	
	3/7/2017	0.26	21.7	1303.1	
	3/10/2017	0.31	9.4	1312.5	
	3/16/2017	1.14	16.0	1328.5	Batteries unseated, system restarted
	3/23/2017	0.76	2.2	1330.7	
	3/31/2017	0.31	13.0	1343.7	Estimated
	4/3/2017	0.28	6.0	1349.7	
	4/13/2017	0.26	22.5	1372.2	
	4/18/2017	0.40	11.7	1383.9	
	4/27/2017	0.35	16.3	1400.2	
	5/2/2017	0.27	9.5	1409.7	
	5/10/2017	0.28	19.7	1429.4	
	5/17/2017	0.23	20.3	1449.7	
	5/26/2017	0.17	22.0	1471.7	
	6/1/2017	0.24	12.0	1483.7	
	6/8/2017	0.13	5.3	1489.0	
	6/15/2017	0.28	9.3	1498.3	
	6/20/2017	0.22	9.4	1507.7	
	6/22/2017	0.28	4.0	1511.7	
	6/26/2017	0.26	5.0	1516.7	
	6/30/2017	0.28	1.8	1518.5	
	7/7/2017	0.25	7.3	1525.7	
	7/12/2017	0.26	12.0	1537.7	
	7/19/2017	0.23	11.0	1548.7	
	7/26/2017	0.18	14.0	1562.7	
	8/2/2017	0.23	41.0	1603.7	
	8/9/2017	0.24	38.0	1641.7	
	8/17/2017	0.24	33.9	1675.6	
	8/22/2017	0.20	35.5	1711.1	
	8/30/2017	0.22	48.9	1760.0	
	9/6/2017	0.25	34.6	1794.6	Shutdown due to Hurricane Irma
	9/21/2017	2.33	0.0	1794.6	LNAPL skimmer restarted
	9/22/2017	0.25	22.0	1816.6	
	9/29/2017	0.28	83.3	1899.9	
	10/6/2017	1.60	1.1	1901.0	System off upon arrival
	10/12/2017	0.31	20.0	1921.0	Estimated
	10/19/2017	0.20	46.4	1967.4	
	11/2/2017	0.28	45.3	2012.7	
	11/8/2017	0.13	5.0	2017.7	
	11/15/2017	0.82	0.0	2017.7	System malfunction
	11/22/2017	1.37	0.0	2017.7	System malfunction
	11/30/2017	0.21	15.0	2032.7	Estimated
	12/6/2017	0.16	4.0	2036.7	System malfunction
	12/13/2017	0.69	5.0	2041.7	System malfunction
	12/21/2017	0.16	36.0	2077.7	
	12/28/2017	0.96	15.0	2092.7	
	1/5/2018	0.60	0.0	2092.7	
	1/12/2018	0.25	17.0	2109.7	
	1/19/2018	0.21	13.0	2122.7	
	1/26/2018	0.28	11.0	2133.7	
	2/1/2018	0.03	5.0	2138.7	
	2/7/2018	0.32	25.0	2163.7	
	2/15/2018	0.06	12.0	2175.7	
	2/22/2018	0.21	11.0	2186.7	
	2/28/2018	0.06	10.0	2196.7	
	3/8/2018	0.30	4.0	2200.7	
	3/15/2018	1.51	1.0	2201.7	System off due to malfunction
	3/22/2018	1.55	2.0	2203.7	
	3/29/2018	0.17	8.0	2211.7	
	4/6/2018	0.22	8.0	2219.7	
	4/12/2018	0.27	8.0	2227.7	
	4/18/2018	0.27	8.0	2235.7	
	4/27/2018	0.24	8.0	2243.7	
	5/3/2018	0.32	4.0	2247.7	
	5/9/2018	0.23	7.0	2254.7	
	5/17/2018	0.21	18.5	2273.2	

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	5/25/2018	0.28	4.5	2277.7	
	5/31/2018	0.26	3.5	2281.2	
	6/7/2018	0.97	3.2	2284.4	
	6/14/2018	0.21	6.8	2291.2	
	6/22/2018	0.26	9.4	2300.6	
	6/28/2018	0.87	4.1	2304.7	
	7/5/2018	0.25	17.5	2322.2	
	7/9/2018	0.27	7.7	2329.9	
	7/19/2018	0.15	16.5	2346.4	
	7/25/2018	0.28	24.8	2371.2	
	8/1/2018	0.28	20.5	2391.7	
	8/9/2018	1.78	8.5	2400.2	
	8/16/2018	0.23	27.5	2427.7	
	8/23/2018	0.22	21.5	2449.2	
	8/30/2018	0.29	2.3	2451.5	
	9/5/2018	0.18	16.0	2467.5	
	9/14/2018	0.23	19.5	2487.0	
	9/21/2018	0.36	14.6	2501.6	
	9/25/2018	0.22	8.4	2510.0	
	10/4/2018	0.19	15.5	2525.5	
	10/10/2018	0.13	8.4	2533.9	
	10/17/2018	0.39	31.3	2565.2	
	10/23/2018	1.04	10.0	2575.2	
	11/8/2018	0.73	0.0	2575.2	system off due to valve issue
	11/16/2018	0.40	14.3	2589.5	
	11/20/2018	0.22	8.3	2597.8	
	11/29/2018	2.95	10.0	2607.8	submerged pump, est recovery due to water
	12/5/2018	1.02	2.0	2609.8	
	12/10/2018	1.28	16.0	2625.8	not firing correctly
	12/14/2018	0.22	31.0	2656.8	
	12/19/2018	0.19	56.0	2712.8	
	12/28/2018	0.20	64.6	2777.4	
	1/3/2019	--	1.4	2778.8	System not operating on arrival
	1/7/2019	1.14	0.0	2778.8	System off
	1/18/2019	1.75	0.0	2778.8	
	1/24/2019	1.28	0.0	2778.8	
	1/31/2019	0.25	19.5	2798.3	system restarted
	2/8/2019	0.20	15.0	2813.3	
	2/13/2019	0.31	6.5	2819.8	
	2/21/2019	0.15	10.0	2829.8	
	3/1/2019	0.28	8.6	2838.4	
	3/7/2019	0.17	3.4	2841.8	
	3/13/2019	0.96	3.5	2845.3	3-way malfunction
	3/21/2019	0.91	5.2	2850.5	
	3/28/2019	0.29	3.5	2854.0	
	4/3/2019	0.25	7.0	2861.0	
	4/10/2019	0.23	8.0	2869.0	
	4/18/2019	0.18	5.8	2874.8	
	4/26/2019	0.22	8.2	2883.0	
	5/3/2019	0.26	5.0	2888.0	
	5/7/2019	0.23	4.0	2892.0	
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AW-11	Short-term Skimming Test			119.4	
	1/19/2017	3.89	--	119.4	Installed LNAPL Skimmer
	1/20/2017	0.32	11.3	130.7	
	1/26/2017	0.32	20.0	150.7	Estimated
	1/31/2017	0.29	16.3	167.0	
	2/7/2017	0.29	95.9	262.9	
	2/13/2017	0.46	15.6	278.5	
	2/14/2017	0.23	2.5	281.0	
	2/23/2017	0.35	12.5	293.5	
	3/3/2017	0.13	10.5	304.0	
	3/7/2017	0.30	4.3	308.3	
	3/10/2017	0.32	10.6	318.8	
	3/16/2017	0.23	6.2	325.0	
	3/23/2017	0.23	72.0	397.0	
	3/31/2017	1.32	10.2	407.2	Estimated
	4/3/2017	0.04	157.5	564.7	
	4/13/2017	0.25	13.3	578.0	
	4/18/2017	0.26	9.1	587.1	
	4/27/2017	0.34	10.9	598.0	
	5/2/2017	1.14	8.3	606.3	
	5/10/2017	0.29	13.7	620.0	
	5/17/2017	0.23	12.0	632.0	
	5/26/2017	0.19	14.7	646.7	
	6/1/2017	0.30	5.3	652.0	
	6/8/2017	0.17	8.1	660.1	
	6/15/2017	0.13	9.3	669.4	
	6/20/2017	0.25	4.6	674.0	
	6/22/2017	0.16	27.2	701.2	
	6/26/2017	0.03	13.9	715.1	
	6/30/2017	0.22	10.0	725.1	
	7/7/2017	0.21	13.0	738.1	
	7/12/2017	0.21	10.0	748.1	
	7/19/2017	0.27	12.0	760.1	
	7/26/2017	0.18	9.7	769.8	
	8/2/2017	0.27	7.3	777.1	
	8/9/2017	0.14	15.0	792.1	
	8/17/2017	0.23	13.0	805.1	
	8/22/2017	0.27	13.5	818.6	
	8/30/2017	0.10	19.5	838.1	
	9/6/2017	0.26	15.0	853.1	Shutdown due to Hurricane Irma
	9/21/2017	2.24	0.0	853.1	LNAPL skimmer restarted
	9/22/2017	0.21	3.0	856.1	
	9/29/2017	0.17	16.2	872.3	
	10/6/2017	0.97	0.0	872.3	System off upon arrival
	10/12/2017	0.16	12.0	884.3	Estimated
	10/19/2017	1.22	6.8	891.1	System off upon arrival
	11/2/2017	0.24	26.9	918.0	
	11/8/2017	0.22	6.2	924.2	
	11/15/2017	0.19	6.8	931.0	
	11/22/2017	0.27	9.0	940.0	
	11/30/2017	0.25	10.0	950.0	Estimated
	12/6/2017	0.22	4.0	954.0	
	12/13/2017	0.23	6.0	960.0	
	12/21/2017	0.13	6.0	966.0	
	12/28/2017	0.25	6.6	972.6	
	1/5/2018	0.23	5.4	978.0	
	1/12/2018	0.21	6.0	984.0	
	1/19/2018	0.28	7.2	991.2	
	1/26/2018	0.25	3.8	995.0	
	2/1/2018	0.28	4.0	999.0	
	2/7/2018	0.32	6.0	1005.0	
	2/15/2018	0.24	5.0	1010.0	
	2/22/2018	0.22	5.0	1015.0	
	2/28/2018	0.23	3.0	1018.0	
	3/8/2018	0.32	4.0	1022.0	
	3/15/2018	0.24	8.0	1030.0	
	3/22/2018	0.18	6.0	1036.0	
	3/29/2018	0.33	6.6	1042.6	
	4/6/2018	0.31	4.4	1047.0	
	4/12/2018	0.23	3.3	1050.3	
	4/18/2018	0.24	7.7	1058.0	
	4/27/2018	0.22	3.2	1061.2	
	5/3/2018	0.30	3.8	1065.0	
	5/9/2018	0.22	6.4	1071.4	
	5/17/2018	0.25	7.5	1078.9	
	5/25/2018	0.22	6.3	1085.2	
	5/31/2018	0.31	2.4	1087.6	
	6/7/2018	0.24	5.5	1093.1	
	6/14/2018	0.13	8.3	1101.4	
	6/22/2018	0.29	13.0	1114.4	
	6/28/2018	0.34	4.0	1118.4	
	7/5/2018	0.22	8.3	1126.7	
	7/9/2018	0.23	4.1	1130.8	
	7/19/2018	0.23	15.6	1146.4	
	7/25/2018	0.24	6.0	1152.4	
	8/1/2018	0.25	11.0	1163.4	
	8/9/2018	0.25	13.6	1177.0	
	8/16/2018	0.22	12.4	1189.4	
	8/23/2018	0.17	6.2	1195.6	
	8/30/2018	0.22	2.0	1197.6	

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	9/5/2018	0.22	9.0	1206.6	
	9/14/2018	0.22	18.0	1224.6	
	9/21/2018	0.28	0.5	1225.1	
	9/25/2018	0.24	7.9	1233.0	
	10/4/2018	0.32	9.6	1242.6	
	10/10/2018	0.22	4.5	1247.1	
	10/17/2018	0.25	9.2	1256.3	
	10/23/2018	0.24	6.0	1262.3	
	11/1/2018	0.23	10.5	1272.8	
	11/8/2018	0.23	7.5	1280.3	
	11/16/2018	0.60	1.1	1281.4	
	11/20/2018	0.22	8.0	1289.4	
	11/29/2018	0.16	3.0	1292.4	
	12/5/2018	0.21	9.0	1301.4	
	12/10/2018	0.12	7.0	1308.4	
	12/14/2018	0.21	2.0	1310.4	
	12/19/2018	0.15	7.0	1317.4	
	12/28/2018	0.15	3.9	1321.3	
	1/3/2019	1.64	1.0	1322.3	
	1/7/2019	0.21	8.0	1330.3	
	1/18/2019	0.45	13.3	1343.6	
	1/24/2019	0.20	4.9	1348.5	
	1/31/2019	0.25	6.3	1354.8	System off on arrival, bad batteries
	2/8/2019	0.15	18.5	1373.3	
	2/13/2019	0.23	4.7	1378.0	
	2/21/2019	0.19	5.4	1383.4	
	3/1/2019	0.26	5.2	1388.6	
	3/7/2019	0.23	3.4	1392.0	
	3/13/2019	0.22	1.7	1393.7	
	3/21/2019	0.23	1.8	1395.5	
	3/28/2019	0.25	12.2	1407.7	
	4/3/2019	0.21	7.1	1414.8	
	4/10/2019	0.26	5.0	1419.8	recovery estimated due to tank cleanout
	4/18/2019	0.25	6.0	1425.8	
	4/26/2019	0.26	5.8	1431.6	
	5/3/2019	0.23	6.2	1437.8	
	5/7/2019	0.32	3.4	1441.2	
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AW-56	Short-term Skimming Test			131.3	
	2/23/2017	5.05	--	131.3	Installed LNAPL Skimmer
	2/23/2017	0.35	40.5	171.8	Tank initially contained ~30 gallons of diesel
	3/3/2017	0.28	33.9	205.7	
	3/7/2017	4.75	15.0	220.7	Estimated due to tank failure
	3/10/2017	3.56	11.5	232.2	
	3/16/2017	5.04	6.2	238.4	
	3/23/2017	1.84	33.5	271.9	Drum full, switched to 275-gal tank
	3/31/2017	0.25	8.2	280.1	Estimated
	4/3/2017	0.18	13.0	293.1	
	4/13/2017	0.15	33.8	326.9	
	4/18/2017	3.00	13.7	340.6	
	4/27/2017	3.25	11.0	351.6	
	5/2/2017	0.22	24.3	375.9	
	5/10/2017	0.46	24.0	399.9	
	5/17/2017	0.45	29.0	428.9	
	5/26/2017	0.03	36.0	464.9	
	6/1/2017	0.28	19.0	483.9	
	6/8/2017	1.73	8.5	492.4	
	6/15/2017	0.21	33.5	525.9	
	6/20/2017	0.24	15.0	540.9	
	6/22/2017	0.14	7.0	547.9	
	6/26/2017	0.05	14.0	561.9	
	6/30/2017	0.09	19.0	580.9	
	7/7/2017	0.19	23.0	603.9	
	7/12/2017	0.09	24.6	628.5	
	7/19/2017	0.17	41.4	669.9	
	7/26/2017	0.13	17.3	687.2	
	8/2/2017	6.20	3.0	690.2	Pump off on arrival, solenoid not cycling
	8/9/2017	0.11	32.0	722.2	
	8/17/2017	0.12	30.0	752.2	
	8/22/2017	0.18	20.5	772.7	
	8/30/2017	0.17	24.5	797.2	
	9/6/2017	5.27	11.0	808.2	Shutdown due to Hurricane Irma
	9/21/2017	5.70	0.0	808.2	LNAPL skimmer restarted
	9/22/2017	0.24	7.0	815.2	
	9/29/2017	0.19	27.5	842.7	
	10/6/2017	0.20	17.1	859.8	
	10/12/2017	5.55	10.0	869.8	System off upon arrival
	10/19/2017	4.90	6.5	876.3	System off upon arrival
	11/2/2017	0.06	53.5	929.8	System off upon arrival
	11/8/2017	0.29	18.0	947.8	
	11/15/2017	4.47	4.0	951.8	System off upon arrival
	11/22/2017	0.15	26.0	977.8	
	11/30/2017	0.22	15.0	992.8	Estimated
	12/6/2017	3.67	10.4	1003.2	
	12/13/2017	0.22	25.3	1028.5	
	12/21/2017	0.10	25.0	1053.5	
	12/28/2017	0.25	20.0	1073.5	
	1/5/2018	0.08	26.0	1099.5	
	1/12/2018	0.23	14.0	1113.5	
	1/19/2018	0.18	23.0	1136.5	
	1/26/2018	0.68	24.0	1160.5	
	2/1/2018	0.09	10.0	1170.5	
	2/7/2018	0.32	12.0	1182.5	
	2/15/2018	0.21	18.0	1200.5	
	2/22/2018	0.18	20.0	1220.5	
	2/28/2018	0.21	14.0	1234.5	
	3/8/2018	4.52	8.0	1242.5	
	3/15/2018	3.56	0.0	1242.5	System off due to malfunction
	3/22/2018	4.15	0.0	1242.5	
	3/29/2018	0.32	21.0	1263.5	
	4/6/2018	0.24	21.0	1284.5	
	4/12/2018	0.22	13.5	1298.0	
	4/18/2018	0.12	20.9	1318.9	
	4/27/2018	0.65	16.7	1335.6	
	5/3/2018	0.19	14.5	1350.1	
	5/9/2018	0.26	15.4	1365.5	
	5/17/2018	0.26	19.0	1384.5	
	5/25/2018	0.25	20.0	1404.5	
	5/31/2018	0.14	14.3	1418.8	
	6/7/2018	0.24	19.3	1438.1	
	6/14/2018	0.22	18.8	1456.9	
	6/22/2018	0.42	24.2	1481.1	
	6/28/2018	0.11	13.9	1495.0	
	7/5/2018	0.27	20.5	1515.5	
	7/9/2018	0.28	12.0	1527.5	
	7/19/2018	0.16	26.5	1554.0	
	7/25/2018	0.18	14.5	1568.5	
	8/1/2018	2.00	16.0	1584.5	pump filter clogged
	8/9/2018	0.18	34.0	1618.5	
	8/16/2018	0.22	19.0	1637.5	
	8/23/2018	0.11	21.0	1658.5	
	8/30/2018	3.71	1.0	1659.5	
	9/5/2018	3.17	10.0	1669.5	
	9/14/2018	0.16	30.2	1669.7	
	9/21/2018	0.27	14.3	1714.0	
	9/25/2018	0.11	9.5	1723.5	
	10/4/2018	0.34	24.0	1747.5	
	10/10/2018	0.05	15.6	1763.1	

Table 2

LNAPL Removal Summary
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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
"	10/17/2018	0.12	14.9	1778.0	
	10/23/2018	2.98	13.0	1791.0	
	11/1/2018	0.28	27.5	1818.5	
	11/8/2018	0.29	17.4	1835.9	
	11/16/2018	1.33	14.6	1850.5	
	11/20/2018	3.95	8.6	1859.1	
	11/29/2018	5.32	19.4	1878.5	
	12/5/2018	0.16	27.0	1905.5	
	12/10/2018	0.33	25.0	1930.5	
	12/14/2018	0.25	51.9	1982.4	
	12/19/2018	0.45	70.0	2052.4	
	12/28/2018	0.04	32.7	2085.1	
	1/3/2019	3.22	6.2	2091.3	
	1/7/2019	3.96	0.0	2091.3	System off due to tank full
	1/18/2019	0.19	37.6	2128.9	
	1/24/2019	0.10	16.3	2145.2	
	1/31/2019	0.29	17.6	2162.8	
	2/6/2019	0.17	20.9	2183.7	
	2/13/2019	0.23	12.2	2195.9	
	2/21/2019	0.15	19.1	2215.0	
	3/1/2019	4.02	0.0	2215.0	air supply hose disconnected
	3/7/2019	0.17	15.5	2230.5	
	3/13/2019	0.12	13.9	2244.4	
	3/21/2019	0.17	20.7	2265.1	
	3/28/2019	0.12	7.0	2272.1	
	4/3/2019	0.21	19.5	2291.6	
	4/10/2019	0.09	18.0	2309.6	recovery estimated due to tank cleanout
	4/18/2019	0.11	16.9	2326.5	
	4/26/2019	0.08	17.2	2343.7	
	5/3/2019	0.10	18.4	2362.1	
	5/7/2019	0.15	4.8	2366.9	
				LNAPL Skimming Underway	

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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-82	Short-term Skimming Test			269.8	
	4/27/2017	3.05	--	269.8	Installed LNAPL Skimmer
	5/2/2017	0.15	119.0	388.8	
	5/10/2017	1.41	75.0	463.8	
	5/17/2017	0.16	52.0	515.8	
	5/26/2017	0.19	60.0	575.8	
	6/1/2017	0.19	21.0	596.8	
	6/8/2017	0.14	25.0	621.8	
	6/15/2017	0.17	15.9	637.7	
	6/22/2017	0.15	25.0	662.7	
	6/26/2017	0.15	13.1	675.8	
	6/30/2017	0.89	53.5	729.3	
	7/7/2017	0.90	9.5	738.8	
	7/12/2017	0.08	17.8	756.6	
	7/19/2017	0.09	10.2	766.8	
	7/26/2017	0.02	43.9	810.7	
	8/2/2017	0.21	8.1	818.8	
	8/9/2017	0.15	3.0	821.8	
	8/17/2017	0.03	2.0	823.8	
	8/22/2017	0.10	9.0	832.8	
	8/30/2017	0.14	5.7	838.5	
	9/6/2017	0.14	5.3	843.8	Shutdown due to Hurricane Irma
	9/21/2017	2.02	0.0	843.8	LNAPL skimmer restarted
	9/22/2017	0.06	12.3	856.1	
	9/29/2017	0.16	10.4	866.5	
	10/6/2017	1.31	23.7	890.2	System off upon arrival
	10/12/2017	0.17	10.0	900.2	Estimated
	10/19/2017	0.12	2.1	902.3	
	11/2/2017	0.24	9.2	911.5	System off upon arrival
	11/8/2017	0.23	0.0	911.5	
	11/15/2017	0.63	0.0	911.5	System malfunction
	11/22/2017	0.26	10.0	921.5	
	11/30/2017	0.27	10.0	931.5	Estimated
	12/6/2017	0.25	9.8	941.3	
	12/13/2017	1.96	6.8	948.1	
	12/21/2017	1.86	12.4	960.5	
	12/28/2017	0.23	7.8	968.3	
	1/5/2018	0.24	0.0	968.3	
	1/12/2018	0.22	35.5	1003.8	
	1/19/2018	0.25	5.5	1009.3	
	1/26/2018	0.06	11.2	1020.5	
	2/1/2018	0.24	6.2	1026.7	
	2/7/2018	0.30	14.0	1040.7	
	2/15/2018	0.41	31.0	1071.7	
	2/22/2018	1.76	31.0	1102.7	tank full, system off
	2/28/2018	2.32	0.0	1102.7	
	3/8/2018	0.22	14.0	1116.7	
	3/15/2018	0.21	14.0	1130.7	
	3/22/2018	0.21	17.0	1147.7	
	3/29/2018	0.18	14.0	1161.7	
	4/6/2018	0.25	13.0	1174.7	
	4/12/2018	0.26	14.0	1188.7	
	4/18/2018	0.25	23.0	1211.7	
	4/27/2018	0.24	12.0	1223.7	
	5/3/2018	0.18	7.0	1230.7	
	5/9/2018	0.20	10.5	1241.2	
	5/17/2018	0.18	13.5	1254.7	System off due to malfunction
	6/7/2018	0.16	0.5	1255.2	
	6/14/2018	0.16	0.5	1255.7	
	6/22/2018	0.19	2.5	1258.2	
	6/28/2018	0.28	0.0	1258.2	
	7/5/2018	0.24	3.1	1261.3	
	7/9/2018	0.11	3.0	1264.3	
	7/19/2018	0.32	2.9	1267.2	
	7/25/2018	1.16	0.0	1267.2	System off
	8/1/2018	0.18	8.0	1275.2	
	8/9/2018	0.15	1.0	1276.2	
	8/16/2018	0.19	2.0	1278.2	
	8/23/2018	0.18	7.0	1285.2	
	8/30/2018	0.18	8.5	1293.7	
	9/5/2018	0.22	2.5	1296.2	
	9/14/2018	0.20	3.2	1299.4	
	9/21/2018	0.22	2.3	1301.7	
	9/25/2018	0.15	6.2	1307.9	
	10/4/2018	0.28	1.4	1309.3	
	10/10/2018	0.25	1.5	1310.8	
	10/17/2018	0.26	1.2	1312.0	
	10/23/2018	0.13	1.0	1313.0	
	11/1/2018	0.22	1.7	1314.7	
	11/8/2018	0.17	0.6	1315.3	
	11/16/2018	0.30	1.0	1316.3	
	11/20/2018	0.18	1.0	1317.3	
	11/29/2018	0.88	1.0	1318.3	
	12/5/2018	0.14	1.0	1319.3	
	12/10/2018	0.12	0.0	1319.3	
	12/14/2018	0.04	2.0	1321.3	
	12/19/2018	0.02	0.0	1321.3	
	12/28/2018	2.10	35.0	1356.3	LNAPL recovery estimated due to water recovery
	1/3/2019	1.17	13.0	1369.3	
	1/7/2019	0.02	5.0	1374.3	

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<i>Well ID</i>	<i>Measurement Date</i>	<i>Measured In-Well LNAPL Thickness (feet)</i>	<i>LNAPL Removed Between Measurements (gallons)</i>	<i>Cumulative Total LNAPL Removal (gallons)</i>	<i>Comments</i>
	1/18/2019	0.05	1.1	1375.4	
	1/24/2019	0.01	0.0	1375.4	
	1/31/2019	0.03	4.0	1379.4	
	2/8/2019	0.08	0.0	1379.4	
	2/12/2019	0.12	0.0	1379.4	System shut down and long-term skimming concluded
Long-Term LNAPL Skimming Concluded					

Table 2

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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-18	Short-term Skimming Test			7.4	
	6/19/2017	1.71	--	7.4	Installed LNAPL Skimmer
	6/20/2017	0.30	4.0	11.4	
	6/22/2017	0.31	0.0	11.4	
	6/26/2017	0.35	0.0	11.4	
	6/30/2017	0.18	0.0	11.4	
	7/7/2017	0.14	0.0	11.4	
	7/12/2017	0.17	0.0	11.4	
	7/19/2017	0.22	0.0	11.4	
	7/26/2017	0.22	0.0	11.4	
	8/2/2017	0.13	0.0	11.4	
LNAPL Skimming Concluded					
AW-6	Short-term Skimming Test			4.0	
	8/2/217	2.17	--	4.0	Installed LNAPL Skimmer
	8/9/2017	0.11	1.0	5.0	
	8/17/2017	0.10	0.0	5.0	
	8/22/2017	0.16	0.0	5.0	
	8/30/2017	0.09	0.0	5.0	
	9/6/2017	0.21	0.0	5.0	Shutdown due to Hurricane Irma
LNAPL Skimming Concluded					
AW-74	8/30/2017	1.83	--	--	Installed LNAPL Skimmer
	8/30/2017	0.26	2.3	2.3	
	9/6/2017	0.21	2.7	5.0	Shutdown due to Hurricane Irma
	9/21/2017	0.05	0.0	5.0	LNAPL skimmer restarted
	9/22/2017	0.07	0.0	5.0	
	9/29/2017	0.04	0.0	5.0	Tank full (water), system off
	10/6/2017	0.01	0.0	5.0	Tank full (water), system off
	10/12/2017	0.07	0.0	5.0	
	10/19/2017	0.03	0.0	5.0	
	11/2/2017	0.16	2.0	7.0	Tank full (water), system off
	11/8/2017	0.46	0.0	7.0	Tank full (water), system off
	11/15/2017	0.79	0.0	7.0	Tank full (water), system off
	11/22/2017	0.72	0.0	7.0	Tank full (water), system off
	11/30/2017	1.04	0.0	7.0	Tank full (water), system off
LNAPL Skimming Completed					

Table 2

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Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-22	Short-term Skimming Test			256.0	
	9/21/2017	3.76	--	256.0	Installed LNAPL Skimmer
	9/22/2017	0.06	2.3	258.3	
	9/29/2017	0.03	3.5	261.8	
	10/6/2017	0.09	1.5	263.3	
	10/12/2017	0.18	2.0	265.3	Estimated
	10/19/2017	0.12	0.5	265.8	
	11/2/2017	0.10	4.5	270.3	
	11/8/2017	0.22	0.0	270.3	
	11/15/2017	0.51	0.0	270.3	Batteries dead, system restarted
	11/22/2017	0.20	3.0	273.3	
	11/30/2017	0.19	2.0	275.3	Estimated
	6/22/2018	0.23	8.9	284.2	First intermittent skimming event initiated
	6/28/2018	0.02	21.1	305.3	
	7/5/2018	0.21	0.0	305.3	
	7/9/2018	0.10	0.0	305.3	
	7/19/2018	0.05	3.5	308.8	
	7/25/2018	0.06	3.3	312.1	
	8/1/2018	0.15	4.0	316.1	
	8/9/2018	0.07	1.5	317.6	
	8/16/2018	0.16	0.5	318.1	
	8/23/2018	0.05	2.5	320.6	
	8/30/2018	0.02	2.0	322.6	First intermittent skimming event concluded
	4/18/2019	1.83	0.0	322.6	Second intermittent skimming event initiated
	4/18/2019	0.25	1.0	323.6	
	4/26/2019	0.01	1.0	324.6	
	5/3/2019	0.01	1.0	325.6	
	5/7/2019	0.01	4.0	329.6	
	LNAPL Skimming Underway				
AW-12	Short-term Skimming Test			30.5	
	11/30/2017	6.54	--	30.5	Installed LNAPL Skimmer
	12/6/2017	0.28	17.0	47.5	
	12/13/2017	0.15	4.0	51.5	
	12/21/2017	0.15	7.0	58.5	
	12/28/2017	0.23	2.0	60.5	
	1/5/2018	0.10	0.0	60.5	
	1/12/2018	0.52	23.0	83.5	
	1/19/2018	0.17	7.0	90.5	
	1/26/2018	0.72	0.0	90.5	tank full of water
	2/1/2018	0.22	0.0	90.5	
	2/7/2018	0.03	6.0	96.5	
	2/15/2018	0.16	1.0	97.5	
	2/22/2018	0.02	14.0	111.5	tank full of water
	2/28/2018	0.19	0.0	111.5	
	6/22/2018	2.00	4.3	115.8	First intermittent skimming event initiated
	6/28/2018	0.23	8.7	124.5	
	7/5/2018	0.04	3.0	127.5	
	7/9/2018	0.15	4.7	132.2	
	7/19/2018	0.31	48.9	181.1	
	7/25/2018	0.23	0.0	181.1	
	8/1/2018	0.05	9.0	190.1	
	8/9/2018	0.03	4.5	194.6	
	8/16/2018	0.18	0.5	195.1	
	8/23/2018	0.15	0.5	195.6	End of first intermittent skimming event
	4/3/2019	2.04	0.0	195.6	Second intermittent skimming event initiated
	4/3/2019	0.48	1.7	197.3	
	4/10/2019	0.12	0.3	197.6	
	4/18/2019	0.07	0.1	197.7	
	4/26/2019	0.26	2.0	199.7	
	5/3/2019	0.20	1.1	200.8	
	5/7/2019	0.24	2.4	203.2	
	LNAPL Skimming Underway				
AW-68	Short-term Skimming Test			13.2	
	11/30/2017	6.34	--	13.2	Installed LNAPL Skimmer
	12/6/2017	0.38	16.0	29.2	
	12/13/2017	0.25	26.0	55.2	
	12/21/2017	0.02	40.0	95.2	
	12/28/2017	0.07	87.0	182.2	
	1/5/2018	0.02	8.0	190.2	
	1/12/2018	0.06	0.0	190.2	
	1/19/2018	0.35	0.0	190.2	
	1/26/2018	1.17	3.0	193.2	
	2/1/2018	0.20	0.0	193.2	
	2/7/2018	0.40	1.0	194.2	
	2/15/2018	0.07	27.0	221.2	
	2/22/2018	0.31	0.0	221.2	
	2/28/2018	0.19	3.0	224.2	
	3/7/2018	0.29	0.5	224.7	
	8/30/2018	0.13	4.0	228.7	
	9/5/2018	0.12	0.0	228.7	
	9/14/2018	0.26	0.1	228.8	
	9/21/2018	0.15	0.0	228.8	
	9/25/2018	0.09	3.0	231.8	
	10/4/2018	0.26	2.0	233.8	
	10/10/2018	0.26	3.0	236.8	
	10/16/2018	0.03	1.0	237.8	
	10/23/2018	0.16	0.0	237.8	
	11/1/2018	0.24	0.7	238.5	
	11/8/2018	0.10	0.0	238.5	
	11/16/2018	2.40	0.0	238.5	

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	11/20/2018	0.13	0.0	238.5	
	11/29/2018	0.13	0.0	238.5	
	12/5/2018	0.19	0.0	238.5	
	12/10/2018	0.21	0.0	238.5	
	12/14/2018	0.56	0.0	238.5	face plate malfunction; wouldn't restart
	12/19/2018	0.26	1.0	239.5	face plate malfunction
	12/28/2018	0.41	0.5	240.0	batteries dead on arrival
	1/3/2019	0.29	0.0	240.0	
	1/7/2019	0.22	0.0	240.0	
	1/18/2019	0.27	0.6	240.6	
	1/24/2019	0.27	0.4	241.0	
LNAPL Skimming Concluded					

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VRP #1440101197

Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
		Short-term Skimming Test		101.4	
	1/9/2017	4.12	--	101.4	Installed LNAPL Skimmer
	1/20/2017	0.01	60.8	162.2	
	1/23/2017	0.68	0.0	162.2	LNAPL skimmer shutdown due to full tank
	1/26/2017	0.18	5.0	167.2	Estimated
	1/31/2017	0.21	36.5	203.7	
	2/7/2017	0.08	10.1	213.8	
	2/13/2017	0.40	2.9	216.6	
	2/14/2017	0.25	0.0	216.6	
	2/23/2017	0.25	7.5	224.1	
	3/3/2017	0.31	2.5	226.6	
	3/7/2017	0.29	5.0	231.6	
	3/10/2017	0.43	2.6	234.2	
	3/16/2017	0.26	6.1	240.3	
	3/23/2017	0.32	0.0	240.3	
	3/31/2017	0.34	6.0	246.3	Estimated
	4/3/2017	0.20	1.8	248.1	
	4/13/2017	0.15	7.2	255.3	
	4/18/2017	0.18	2.7	258.0	
	4/27/2017	0.16	4.3	262.3	LNAPL Skimmer removed for relocation
AW-10	3/7/2018	3.21	0.0	262.3	First intermittent skimming event initiated
	3/7/2018	0.83	5.5	267.8	
	3/8/2018	0.36	1.5	269.3	
	3/15/2018	1.60	2.0	271.3	
	3/22/2018	0.63	37.0	308.3	
	3/29/2018	0.24	6.0	314.3	
	4/6/2018	0.31	1.0	315.3	
	4/12/2018	0.24	1.3	316.6	
	4/18/2018	0.22	4.7	321.3	
	4/27/2018	0.30	2.5	323.8	
	5/3/2018	0.28	1.0	324.8	
	5/9/2018	0.21	2.5	327.3	
	5/17/2018	0.27	5.0	332.3	
	5/25/2018	0.22	3.0	335.3	
	5/31/2018	0.28	2.0	337.3	
	6/7/2018	0.30	1.8	339.1	
	6/14/2018	1.47	0.0	339.1	End of 1st Intermittent Skimming Event
	10/16/2018	3.78	0.0	339.1	Beginning of 2nd Intermittent Skimming Event
	10/17/2018	0.41	11.1	350.2	
	10/23/2018	0.24	3.0	353.2	
	11/1/2018	0.24	3.2	356.4	
	11/8/2018	0.66	2.2	358.6	
	11/16/2018	0.35	2.9	361.5	
	11/20/2018	0.24	0.0	361.5	
	11/29/2018	0.23	2.0	363.5	
	12/5/2018	0.83	0.0	363.5	
	12/10/2018	0.25	1.0	364.5	
	12/14/2018	0.18	2.0	366.5	
	12/19/2018	0.32	0.3	366.8	
	12/28/2018	0.23	2.0	368.8	
	1/3/2019	0.07	1.0	369.8	
	1/7/2019	0.33	0.7	370.5	
	1/18/2019	0.30	2.3	372.8	
	1/24/2019	0.17	0.6	373.4	End of 2nd Intermittent Skimming Event
		LNAPL Skimming Underway			
AW-54		Short-term Skimming Test		200.0	
	6/20/2017	10.42	--	200.0	Installed LNAPL Skimmer
	6/20/2017	7.40	6.0	206.0	
	6/22/2017	8.52	12.0	218.0	
	6/26/2017	10.60	0.0	218.0	Skimmer inlet clogged on arrival
	6/30/2017	5.75	60.5	278.5	
	7/7/2017	--	0.0	278.5	Well area flooded
	7/12/2017	0.25	34.0	312.5	
	7/19/2017	0.23	0.0	312.5	
	7/26/2017	0.42	2.5	315.0	
	8/2/2017	0.31	1.5	316.5	
	8/9/2017	0.20	2.0	318.5	
	8/17/2017	0.27	1.0	319.5	
	8/22/2017	0.17	0.0	319.5	Skimming test concluded
	3/7/2018	10.15	0.0	319.5	First intermittent skimming event initiated
	3/7/2018	5.46	5.0	324.5	
	3/8/2018	0.11	6.5	331.0	
	3/15/2018	0.21	0.0	331.0	
	3/22/2018	0.16	2.0	333.0	
	3/29/2018	0.34	0.0	333.0	
	4/6/2018	0.16	0.0	333.0	
	4/12/2018	0.54	0.0	333.0	
	4/18/2018	0.20	0.0	333.0	
	4/27/2018	0.16	0.0	333.0	
	5/3/2018	0.21	1.0	334.0	
	5/9/2018	0.20	0.0	334.0	
	5/17/2018	0.19	2.0	336.0	
	5/25/2018	0.23	1.3	337.3	
	5/31/2018	-	0.0	337.3	
	6/7/2018	0.06	0.0	337.3	
	6/14/2018	0.17	3.2	340.5	End of first intermittent skimming event
	5/6/2019	12.91	0.0	340.5	Second intermittent skimming event initiated
	5/7/2019	3.38	32.0	372.5	
		LNAPL Skimming Underway			

Table 2

LNAPL Removal Summary
IMTT, Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Well ID	Measurement Date	Measured In-Well LNAPL Thickness (feet)	LNAPL Removed Between Measurements (gallons)	Cumulative Total LNAPL Removal (gallons)	Comments
AW-5	Short-term Skimming Test			0.0	
	9/22/2016	2.55	--	0.0	Installed LNAPL Skimmer
	9/28/2016	1.94	29.0	29.0	
	10/5/2016	0.86	17.3	46.3	
	11/16/2016	1.58	0.0	46.3	Skimmer inlet clogged on arrival
	11/22/2016	0.66	50.1	96.4	
	11/29/2016	0.56	4.9	101.3	Well area flooded
	1/19/2017	0.84	0.0	101.3	
	1/23/2017	0.24	11.7	113.0	
	1/26/2017	0.08	10.0	123.0	
	1/31/2017	0.03	4.5	127.5	
	2/7/2017	0.67	0.5	128.0	
	2/13/2017	0.13	0.0	128.0	
	2/14/2017	1.07	0.0	128.0	Skimming test concluded
	2/23/2017	0.65	0.0	128.0	First intermittent skimming event initiated
	8/30/2018	1.51	0.0	128.0	
	8/30/2018	0.27	1.3	129.3	
	9/5/2018	0.11	1.7	131.0	
	9/14/2018	0.02	0.0	131.0	
	9/21/2018	0.08	0.0	131.0	
	9/25/2018	0.02	0.0	131.0	
	10/4/2018	0.15	0.0	131.0	
	10/10/2018	0.12	0.0	131.0	
LNAPL Skimming Concluded					
AW-15	Short-term Skimming Test			0.0	
	2/21/2019	0.46	0.8	0.8	First intermittent skimming event initiated
	3/1/2019	0.01	0.0	0.8	
	3/7/2019	0.05	1.2	2.0	
	3/13/2019	0.16	0.5	2.5	
	3/21/2019	0.21	1.0	3.5	
	3/28/2019	0.01	0.0	3.5	
	4/3/2019	0.01	0.0	3.5	
	4/10/2019	0.14	0.0	3.5	
	4/18/2019	0.02	0.7	4.2	
	4/26/2019	0.01	1.0	5.2	
	5/3/2019	0.31	0.0	5.2	
	5/6/2019	0.22	0.0	5.2	
LNAPL Skimming Underway					

Notes:

1. Long-term skimming was initiated in AW-9 and AW-49 on September 14, 2016.
2. Long-term skimming was initiated in AW-11 on January 19, 2017.
3. Long-term skimming was initiated in AW-10 on January 19, 2017 and halted on April 27, 2017.
4. Long-term skimming was initiated in AW-56 on February 23, 2017.
5. Long-term skimming was initiated in AW-82 on April 27, 2017.
6. Long-term skimming was initiated in AW-18 on June 19, 2017 and halted on August 2, 2017.
7. Long-term skimming was initiated in AW-54 on June 20, 2017 and halted on August 22, 2017.
8. Long-term skimming was initiated in AW-6 on August 2, 2017 and halted on September 6, 2017.
9. Long-term skimming was initiated in AW-74 on August 30, 2017 and halted on November 30, 2017.
10. Long-term skimming was initiated in AW-22 on September 21, 2017 and halted on November 30, 2017.
11. Long-term skimming was initiated in AW-12 and AW-68 on November 30, 2017.
12. Long-term skimming in AW-12 was halted on February 22, 2018.
13. Long-term skimming was initiated in AW-10 and AW-54 on March 7, 2018.
14. Includes observations through April 27, 2018.

Table 3

Milestone Schedule
July 1, 2019 to December 31, 2019
IMTT Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Milestone	Timeline
Quarterly Groundwater Monitoring	July and November 2019
Continued Long-Duration and Intermittent LNAPL Skimming Program	Ongoing
Weekly Observation and Residual LNAPL Recovery on the River Side of the Polywall	Ongoing
Submittal of Semi-Annual Progress Report	December 1, 2019

Table 4

Summary of Observed Reduction in In-Well LNAPL Thicknesses
IMTT Epic LLC - Seventh Semi-Annual VRP Progress Report
Savannah, Chatham County, Georgia
VRP #1440101197

Well ID	Historical Maximum In-Well LNAPL Thickness	Maximum In-Well LNAPL Thickness Since 2017	Maximum Observed LNAPL Thickness During Reporting Period	% Reduction from Maximum	% Reduction Since 2017
AW-5	3.32	1.70	1.14	66%	33%
AW-6	4.25	2.17	1.31	69%	40%
AW-8	3.84	0.50	0.02	99%	96%
AW-9	7.69	3.43	3.07	60%	10%
AW-10	7.86	4.12	2.99	62%	27%
AW-11	5.52	3.89	1.64	70%	58%
AW-12	10.73	8.64	2.04	81%	76%
AW-15	3.84	1.45	1.45	62%	0%
AW-18	5.16	1.71	0.90	83%	47%
AW-22	13.05	3.76	2.19	83%	42%
AW-32	10.61	0.13	0.00	100%	100%
AW-38	11.68	0.15	0.06	99%	60%
AW-49	4.28	2.95	2.95	31%	0%
AW-51	10.21	1.52	1.39	86%	9%
AW-52	4.99	3.12	2.80	44%	10%
AW-53	0.62	0.60	0.60	3%	0%
AW-54	14.02	13.75	12.91	8%	6%
AW-56	6.30	5.32	5.32	16%	0%
AW-57	3.35	0.89	0.62	81%	30%
AW-62	8.04	0.04	0.00	100%	100%
AW-65	4.85	2.20	0.84	83%	62%
AW-68	8.22	8.22	2.40	71%	71%
AW-74	4.42	3.79	3.40	23%	10%
AW-82	3.08	2.58	2.10	32%	19%
				Average	63%
				38%	

Note: Observations reported for wells which have been undergoing intermittent or continual skimming operations were collected following a recovery period during system down-time due to malfunction or maintenance. Certain wells such as AW-9, AW-11, AW-49, and AW-56 have been undergoing continuous skimming during the reporting period and may not have been allotted a complete equilibration period.

Appendices

Appendix A

LNAPL Transmissivity Evaluation Summary Tables and Charts for Long-Term Skimming Wells

Appendix A

AW-9 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
Equilibrium	--	--			--	--	--		10.83	14.72	3.89	--	0.57	--	--	--	--
AW-9 Short term test	6/8/2016 14:00	--			--	--	--		10.68	14.55	3.87	--	--	--	--	--	--
	6/9/2016 17:35	1.15		1.07	1.07	8.55	8.55	8.55	9.60	12.00	2.40	-1.23		0.57	8.0	1.07	1.4
	6/10/2016 7:00	0.56		0.56	1.63	9.60	1.05	9.60	9.60	12.50	2.90	-1.23		0.57	1.9	0.25	0.3
	6/13/2016 11:00	2.96		2.91	4.74	21.34	11.74	21.34	10.27	12.60	2.33	-0.56		0.57	4.0	0.54	0.7
	6/22/2016 16:30	9.23		9.13	13.87	49.25	27.91	49.25	10.40	12.20	1.80	-0.43		0.57	3.1	0.41	0.5
	6/27/2016 14:27	4.91		0.00	13.87	49.25	0.00	49.25	10.06	14.51	4.45	-0.77		0.57			
AW-9 Long term test	9/14/2016 13:10	--		--	--	--	--		10.05	13.98	3.93	--		--	--	--	--
	9/14/2016 16:50	0.15		0.15	0.15	9.00	9.0	58.3	10.65	12.35	1.70	-0.18		0.57	58.9	7.87	10.1
	9/15/2016 8:05	0.64	0.79	0.64	0.64	14.70	5.7	64.0	10.35	10.51	0.16	-0.48		0.57	9.0	1.20	1.5
	9/15/2016 8:55	0.03	0.82	0.03	0.67	14.90	0.2	64.2	10.31	10.51	0.20	-0.52		0.57	5.8	0.77	1.0
	9/15/2016 11:50	0.12	0.94	0.12	0.79	15.30	0.4	64.6	10.26	10.50	0.24	-0.57		0.57	3.3	0.44	0.6
	9/21/2016 11:52	6.00	6.95	6.00	6.79	31.80	16.5	81.1	10.75	11.10	0.35	-0.08		0.57	2.7	0.37	0.5
	9/22/2016 9:45	0.91	7.86	0.90	7.70	33.10	1.3	82.4	11.15	11.40	0.25	0.32		0.32	1.4	0.19	0.4
	9/28/2016 8:15	5.94	13.80	5.94	13.63	52.10	19.0	101.4	10.46	10.72	0.26	-0.37		0.57	3.2	0.43	0.5
	10/5/2016 14:15	7.25	21.05	6.32	19.96	71.10	19.0	120.4	10.19	10.42	0.23	-0.64		0.57	3.0	0.40	0.5
	END OF TEST INTERVAL - SHUTDOWN DUE TO HURRICANE																
	10/13/2016 13:50	7.98	29.03	0.00	19.96	0.00	0.0	120.4	8.83	12.89	4.06	--		--	--	--	--
	10/20/2016 12:35	6.95	35.98	6.95	26.91	97.00	97.0	217.4	9.53	9.64	0.11	-1.30		0.57	6.5	0.87	1.1
	END OF TEST INTERVAL - SHUTDOWN DUE TO FULL TANK																
	10/28/2016 11:24	--	43.93	--	--	--	--	217.4	9.33	12.73	3.40	--		--	--	--	--
	11/4/2016 11:45	7.01	50.94	7.00	7.00	2.00	2.0	219.4	9.85	13.30	3.45	-0.98		0.57	0.3	0.04	0.0
	END OF TEST INTERVAL - DUE TO EQUIPMENT MALFUNCTION																
	11/15/2016 16:42	--	62.15	--	--	--	--	219.4	10.31	13.20	2.89	--		--	--	--	--
	11/22/2016 12:07	6.81	68.96	6.40	6.40	4.50	4.5	223.9	11.27	11.54	0.27	0.44		0.57	0.7	0.09	0.1
	11/29/2016 15:10	7.13	76.08	7.12	13.53	31.00	26.5	250.4	11.10	11.44	0.34	0.27		0.57	3.7	0.50	0.6
	END OF TEST INTERVAL - DUE TO EQUIPMENT MALFUNCTION																
	12/5/2016 12:30	5.89	81.97	--	--	--	2.0	252.4	10.38	13.21	2.83	--		--	--	--	--
	12/7/2016 13:10	2.03	84.00	2.00	2.00	48.6	46.6	299.0	10.74	10.94	0.20	-0.09		0.57	14.0	1.87	2.4
	12/14/2016 9:38	6.85	90.85	6.14	8.14	62.60	14.0	313.0	10.65	11.60	0.95	-0.18		0.57	2.3	0.30	0.4
	12/21/2016 9:10	6.98	97.83	6.98	15.12	84.28	21.7	334.6	11.02	11.35	0.33	0.19		0.57	3.1	0.42	0.5
	12/27/2016 12:25	6.14	103.97	6.13	21.25	100.95	16.7	351.3	10.86	11.14	0.28	0.03		0.57	2.7	0.36	0.5
	1/4/2017 12:50	8.02	111.99	8.02	29.27	154.30	53.4	404.7	11.21	11.29	0.08	0.38		0.57	6.7	0.89	1.1
	1/9/2017 11:28	4.94	116.93	4.94	34.20	179.10	24.8	429.5	11.26	11.50	0.24	0.43		0.57	5.0	0.67	0.9
	1/19/2017 13:58	10.10	127.03	9.83	44.03	218.10	39.0	468.5	11.24	11.36	0.12	0.41		0.57	4.0	0.53	0.7
	1/26/2017 13:09	6.97	134.00	6.96	50.99	248.10	30.0	498.5	10.84	11.12	0.28	0.01		0.57	4.3	0.58	0.7
	1/31/2017 12:45	4.98	138.98	4.98	55.98	272.70	24.6	523.1	10.82	11.00	0.18	-0.01		0.57	4.9	0.66	0.8
	2/7/2017 12:49	7.00	145.99	7.00	62.98	298.10	25.4	548.5	11.27	11.50	0.23	0.44		0.57	3.6	0.48	0.6
	2/13/2017 14:36	6.07	152.06	6.07	69.05	320.07	22.0	570.4	11.20	11.50	0.30	0.37		0.57	3.6	0.48	0.6
	2/14/2017 14:19	0.99	153.05	0.99	70.04	324.27	4.2	574.6	10.92	11.24	0.32	0.09		0.57	4.3	0.57	0.7
	2/23/2017 11:15	8.87	161.92	8.68	78.72	358.39	34.1	608.7	10.99	11.26	0.27	0.16</td					

Appendix A

AW-9 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-9 Long term skimming	4/3/2017 10:00	3.06	200.87	3.06	102.50	488.37	11.2	738.7	11.55	11.79	0.24	0.72		0.57	3.7	0.49	0.6
	4/13/2017 11:46	10.07	210.94	9.80	112.29	518.77	30.4	769.1	11.14	11.32	0.18	0.31		0.57	3.1	0.41	0.5
	4/18/2017 11:41	5.00	215.94	4.99	117.29	532.67	13.9	783.0	11.65	11.81	0.16	0.82		0.57	2.8	0.37	0.5
	4/27/2017 10:55	8.97	224.91	8.97	126.26	557.77	25.1	808.1	11.09	11.20	0.11	0.26		0.57	2.8	0.37	0.5
	5/2/2017 12:39	5.07	229.98	5.07	131.32	567.27	9.5	817.6	11.74	11.85	0.11	0.91		0.57	1.9	0.25	0.3
	5/10/2017 10:40	7.92	237.90	7.64	138.96	594.27	27.0	844.6	11.49	11.60	0.11	0.66		0.57	3.5	0.47	0.6
	5/17/2017 7:39	6.87	244.77	6.87	145.83	609.27	15.0	859.6	11.80	11.90	0.10	0.97		0.57	2.2	0.29	0.4
	5/26/2017 10:49	9.13	253.90	9.13	154.96	637.77	28.5	888.1	11.42	11.50	0.08	0.59		0.57	3.1	0.42	0.5
	6/1/2017 7:55	5.88	259.78	5.88	160.84	652.27	14.5	902.6	11.33	11.58	0.25	0.50		0.57	2.5	0.33	0.4
	6/8/2017 11:50	7.16	266.94	7.16	168.00	662.77	10.5	913.1	10.86	11.06	0.20	0.03		0.57	1.5	0.20	0.3
	6/15/2017 11:03	6.97	273.91	6.69	174.69	672.87	10.1	923.2	11.60	11.76	0.16	0.77		0.57	1.5	0.20	0.3
	6/20/2017 9:48	4.95	278.86	4.95	179.64	680.27	7.4	930.6	11.34	11.51	0.17	0.51		0.57	1.5	0.20	0.3
	6/22/2017 10:10	2.02	280.88	2.02	181.65	687.27	7.0	937.6	11.09	11.27	0.18	0.26		0.57	3.5	0.46	0.6
	6/26/2017 11:51	4.07	284.95	4.05	185.70	693.27	6.0	943.6	--	--	0.15	--		0.57	1.5	0.20	0.3
	6/30/2017 11:38	3.99	288.94	3.99	189.68	697.47	4.2	947.8	11.34	11.55	0.21	0.51		0.57	1.1	0.14	0.2
	7/7/2017 8:09	6.85	295.79	6.85	196.53	709.47	12.0	959.8	11.03	11.16	0.13	0.20		0.57	1.8	0.23	0.3
	7/12/2017 14:15	5.25	301.05	5.25	201.78	721.27	11.8	971.6	10.85	11.01	0.16	0.02		0.57	2.2	0.30	0.4
	7/19/2017 11:14	6.87	307.92	6.59	208.37	730.47	9.2	980.8	11.10	11.29	0.19	0.27		0.57	1.4	0.19	0.2
	7/26/2017 10:55	6.99	314.91	6.98	215.36	752.67	22.2	1003.0	10.90	10.94	0.04	0.07		0.57	3.2	0.43	0.5
	8/2/2017 11:48	7.04	321.94	7.03	222.39	759.47	6.8	1009.8	10.57	10.80	0.23	-0.26		0.57	1.0	0.13	0.2
	8/9/2017 9:51	6.92	328.86	6.91	229.30	772.67	13.2	1023.0	10.65	10.72	0.07	-0.18		0.57	1.9	0.26	0.3
	8/17/2017 8:33	7.95	336.81	7.94	237.24	790.67	18.0	1041.0	10.26	10.48	0.22	-0.57		0.57	2.3	0.30	0.4
	8/22/2017 12:50	5.18	341.99	4.89	242.14	802.47	11.8	1052.8	10.20	10.38	0.18	-0.63		0.57	2.4	0.32	0.4
	8/30/2017 17:13	8.18	350.17	8.18	250.32	854.17	51.7	1104.5	10.27	10.35	0.08	-0.56		0.57	6.3	0.84	1.1
	9/6/2017 13:35	6.85	357.02	6.83	257.15	859.67	5.5	1110.0	10.36	10.46	0.10	-0.47		0.57	0.8	0.11	0.1
END OF TEST INTERVAL - SHUTDOWN DUE TO HURRICANE																	
	9/21/2017 15:37	--	372.10	--	--	--	--	1110.0	9.16	12.59	3.43	--		--	--	--	--
	9/22/2017 7:57	0.68	372.78	0.68	257.83	5.00	5.0	1115.0	10.27	10.47	0.20	-0.56		0.57	7.3	0.98	1.3
	9/29/2017 13:52	7.25	380.03	7.24	265.07	12.60	7.6	1122.6	10.31	10.55	0.24	-0.52		0.57	1.0	0.14	0.2
	10/6/2017 13:49	7.00	387.03	6.99	272.06	16.50	3.9	1126.5	9.95	10.16	0.21	-0.88		0.57	0.6	0.07	0.1
	10/12/2017 11:24	5.90	392.93	5.90	277.96	21.50	5.0	1131.5	10.36	10.97	0.61	-0.47		0.57	0.8	0.11	0.1
	10/19/2017 12:10	7.03	399.96	7.03	284.99	27.50	6.0	1137.5	9.81	10.04	0.23	-1.02		0.57	0.9	0.11	0.1
	11/2/2017 8:59	13.87	413.83	13.87	298.86	43.50	16.0	1153.5	10.81	11.04	0.23	-0.02		0.57	1.2	0.15	0.2
	11/8/2017 12:15	6.14	419.96	6.14	304.99	48.00	4.5	1158.0	10.78	11.02	0.24	-0.05		0.57	0.7	0.10	0.1
	11/15/2017 11:34	6.97	426.93	6.97	311.96	58.50	10.5	1168.5	10.65	10.87	0.22	-0.18		0.57	1.5	0.20	0.3
	11/22/2017 10:23	6.95	433.88	6.95	318.91	67.50	9.0	1177.5	11.18	11.45	0.27	0.35		0.57	1.3	0.17	0.2
	11/30/2017 11:09	8.03	441.92	4.74	323.65	74.50	7.0	1184.5	10.85	13.00	2.15	0.02		0.57	1.5	0.20	0.3
	12/6/2017 12:01	6.04	447.95	6.03	329.69	94.50	20.0	1204.5	10.69	10.92	0.23	-0.14		0.57	3.3	0.44	0.6
	12/13/2017 10:48	6.95	454.90	6.94	336.63	104.50	10.0	1214.5	11.41	11.60	0.19	0.58		0.5			

Appendix A

AW-9 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-9 Long term skimming	1/5/2018 14:23	8.01	478.05	7.73	359.50	171.40	24.9	1281.4	11.03	11.31	0.28	0.20		0.57	3.2	0.43	0.6
	1/12/2018 14:11	6.99	485.04	6.96	366.46	200.50	29.1	1310.5	11.52	11.81	0.29	0.69		0.57	4.2	0.56	0.7
	1/19/2018 14:15	7.00	492.05	7.00	373.46	218.50	18.0	1328.5	11.23	11.48	0.25	0.40		0.57	2.6	0.34	0.4
	1/26/2018 11:32	6.89	498.93	6.89	380.35	246.50	28.0	1356.5	11.94	12.25	0.31	1.11		0.57	4.1	0.54	0.7
	2/1/2018 12:41	6.05	504.98	6.04	386.39	270.50	24.0	1380.5	10.08	10.37	0.29	-0.75		0.57	4.0	0.53	0.7
	2/7/2018 8:48	5.84	510.82	5.56	391.96	292.50	22.0	1402.5	11.67	12.04	0.37	0.84		0.57	4.0	0.53	0.7
	2/15/2018 12:08	8.14	518.96	8.13	400.09	317.50	25.0	1427.5	11.11	11.33	0.22	0.28		0.57	3.1	0.41	0.5
	2/22/2018 14:19	7.09	526.05	6.57	406.66	338.50	21.0	1448.5	11.18	11.44	0.26	0.35		0.57	3.2	0.43	0.5
	2/28/2018 8:10	5.74	531.79	5.74	412.40	349.50	11.0	1459.5	10.83	11.04	0.21	0.00		0.57	1.9	0.26	0.3
	3/8/2018 9:16	8.05	539.84	7.77	420.17	370.50	21.0	1480.5	11.41	11.77	0.36	0.58		0.57	2.7	0.36	0.5
	3/15/2018 13:45	7.19	547.02	7.14	427.31	384.50	14.0	1494.5	11.39	11.59	0.20	0.56		0.57	2.0	0.26	0.3
	3/22/2018 11:12	6.89	553.92	4.50	431.82	392.50	8.0	1502.5	11.60	13.10	1.50	0.77		0.57	1.8	0.24	0.3
	3/29/2018 11:05	7.00	560.91	0.00	431.82	392.50	0.0	1502.5	10.59	13.01	2.42	-0.24		0.57	--	--	--
END OF TEST INTERVAL - SHUTDOWN DUE TO EQUIPMENT REPAIR																	
5/25/2018 12:00	--	617.95	--	431.82	392.50	0.0	1502.5	10.94	13.39	2.45	0.11		0.57	--	--	--	
5/25/2018 13:40	0.07	618.02	0.07	431.88	397.50	5.0	1507.5	11.73	12.48	0.75	0.90		0.57	75.0	10.03	12.9	
5/31/2018 9:46	5.84	623.86	3.00	434.88	406.80	9.3	1516.8	10.60	12.54	1.94	-0.23		0.57	3.1	0.41	0.5	
6/7/2018 13:57	7.17	631.03	7.17	442.05	419.20	12.4	1529.2	10.95	11.16	0.21	0.12		0.57	1.7	0.23	0.3	
6/14/2018 11:40	6.90	637.94	6.90	448.95	424.50	5.3	1534.5	10.53	10.72	0.19	-0.30		0.57	0.8	0.10	0.1	
6/22/2018 13:57	8.10	646.03	8.10	457.05	433.70	9.2	1543.7	11.30	11.52	0.22	0.47		0.57	1.1	0.15	0.2	
6/28/2018 10:08	5.84	651.87	5.63	462.68	433.70	0.0	1543.7	10.71	10.94	0.23	-0.12		0.57	0.0	0.00	0.0	
7/5/2018 11:20	7.05	658.92	7.04	469.72	444.70	11.0	1554.7	11.09	11.21	0.12	0.26		0.57	1.6	0.21	0.3	
7/9/2018 14:22	4.13	663.05	4.13	473.85	449.70	5.0	1559.7	11.09	11.25	0.16	0.26		0.57	1.2	0.16	0.2	
7/19/2018 11:20	9.87	672.92	9.87	483.72	458.70	9.0	1568.7	10.96	11.20	0.24	0.13		0.57	0.9	0.12	0.2	
7/25/2018 11:18	6.00	678.92	0.96	484.68	458.70	0.0	1568.7	10.47	10.68	0.21	-0.36		0.57	0.0	0.00	0.0	
8/1/2018 10:17	6.96	685.88	6.95	491.64	467.20	8.5	1577.2	10.95	11.19	0.24	0.12		0.57	1.2	0.16	0.2	
8/9/2018 10:27	8.01	693.89	8.00	499.64	473.40	6.2	1583.4	10.50	10.72	0.22	-0.33		0.57	0.8	0.10	0.1	
8/16/2018 9:47	6.97	700.86	6.97	506.61	479.40	6.0	1589.4	11.19	11.43	0.24	0.36		0.57	0.9	0.12	0.1	
8/23/2018 11:22	7.07	707.93	6.80	513.42	486.70	7.3	1596.7	10.80	11.01	0.21	-0.03		0.57	1.1	0.14	0.2	
8/30/2018 11:41	7.01	714.94	7.01	520.43	488.70	2.0	1598.7	10.89	11.14	0.25	0.06		0.57	0.3	0.04	0.0	
9/5/2018 10:49	5.96	720.90	5.96	526.39	494.70	6.0	1604.7	10.94	11.20	0.26	0.11		0.57	1.0	0.13	0.2	
9/14/2018 14:10	9.14	730.04	9.14	535.53	502.70	8.0	1612.7	10.25	10.55	0.30	-0.58		0.57	0.9	0.12	0.2	
9/21/2018 12:40	6.94	736.98	6.70	542.22	506.70	4.0	1616.7	11.12	11.37	0.25	0.29		0.57	0.6	0.08	0.1	
9/25/2018 13:44	4.04	741.02	4.04	546.26	514.70	8.0	1624.7	10.63	10.87	0.24	-0.20		0.57	2.0	0.26	0.3	
10/4/2018 10:48	8.88	749.90	8.88	555.13	517.10	2.4	1627.1	11.15	11.32	0.17	0.32		0.57	0.3	0.04	0.0	
10/16/2018 15:06	12.18	762.08	11.53	566.66	523.30	6.2	1633.3	10.90	12.00	1.10	0.07		0.57	0.5	0.07	0.1	
10/23/2018 13:36	6.94	769.02	0.00	566.66	523.30	0.0	1633.3	10.48	12.65	2.17	-0.35		0.57	0.0	0.00	0.0	
11/1/2018 10:26	8.87	777.89	7.41	574.08	536.00	12.7	1646.0	11.18	12.20	1.02	0.35		0.57	1.7	0.23	0.3	
11/8/2018 14:10	7.16	78															

Appendix A

AW-9 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

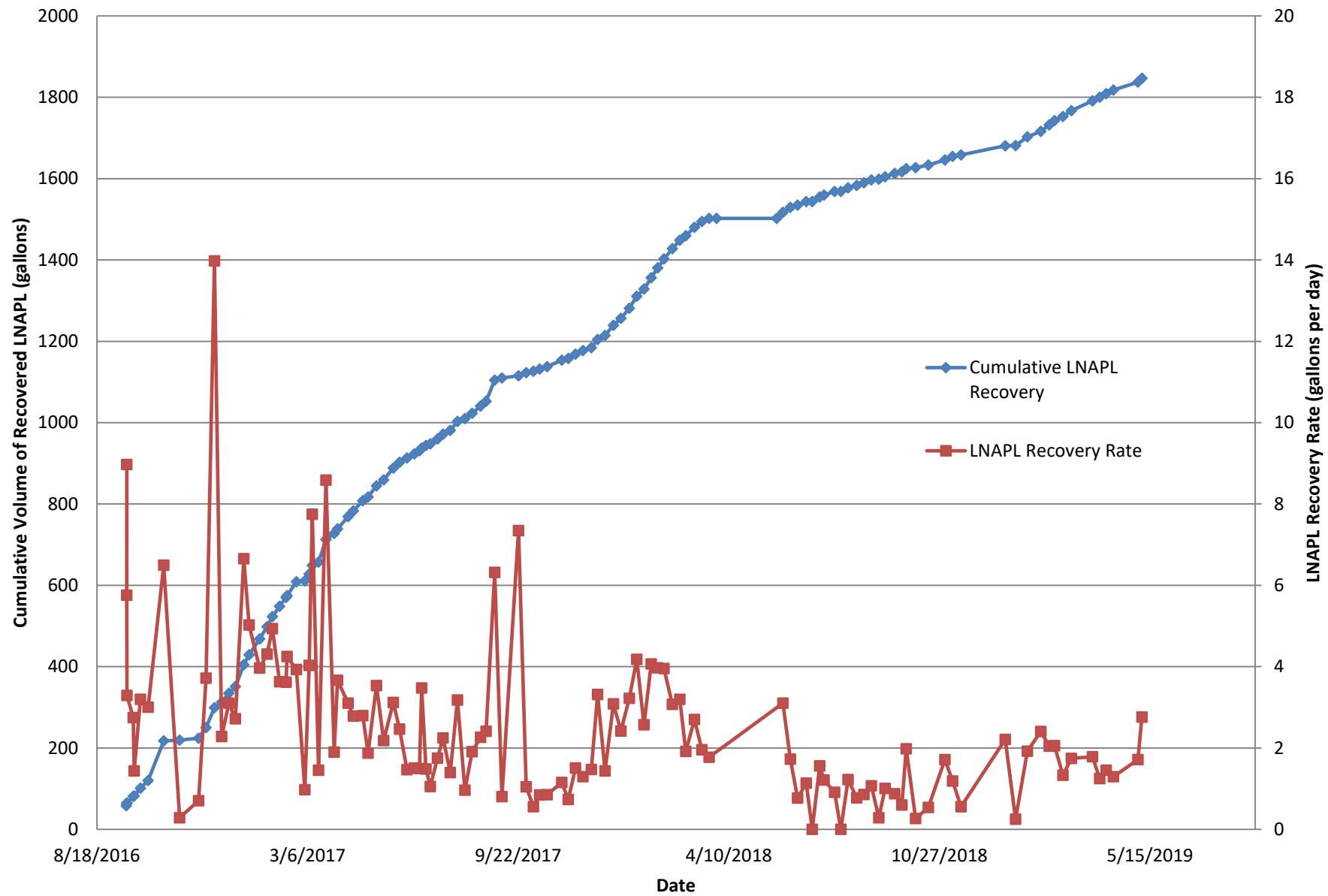
Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-9 Long term skimming	1/3/2019 11:33	5.87	840.93	0.00	603.88	570.50	0.0	1680.5	10.51	11.72	1.21	-0.32		0.57	--	--	--
	1/7/2019 11:03	3.98	844.91	3.98	607.86	571.50	1.0	1681.5	10.50	10.72	0.22	-0.33		0.57	0.3	0.03	0.0
	1/18/2019 14:00	11.12	856.03	10.91	618.78	592.50	21.0	1702.5	11.10	11.33	0.23	0.27		0.57	1.9	0.26	0.3
	1/24/2019 12:20	5.93	861.97	0.00	618.78	592.50	0.0	1702.5	9.78	12.85	3.07	-1.05		0.57	--	--	--
	1/31/2019 10:49	6.94	868.90	5.61	624.39	606.00	13.5	1716.0	10.95	12.31	1.36	0.12		0.57	2.4	0.32	0.4
	2/8/2019 10:12	7.97	876.88	7.97	632.35	622.30	16.3	1732.3	10.99	11.18	0.19	0.16		0.57	2.0	0.27	0.4
	2/13/2019 10:30	5.01	881.89	5.01	637.36	632.60	10.3	1742.6	11.42	11.71	0.29	0.59		0.57	2.1	0.27	0.4
	2/21/2019 11:31	8.04	889.93	7.82	645.18	643.00	10.4	1753.0	10.75	11.11	0.36	-0.08		0.57	1.3	0.18	0.2
	3/1/2019 10:38	7.96	897.89	7.96	653.14	656.90	13.9	1766.9	11.15	11.47	0.32	0.32		0.57	1.7	0.23	0.3
	3/7/2019 10:15	5.98	903.88	5.98	659.12	662.20	5.3	1772.2	10.54	12.20	1.66	-0.29		0.57	0.9	0.12	0.2
	3/13/2019 10:40	6.02	909.90	5.97	665.09	667.40	5.2	1777.4	10.64	12.90	2.26	-0.19		0.57	0.9	0.12	0.1
	3/21/2019 10:29	7.99	917.89	7.77	672.86	681.30	13.9	1791.3	10.62	10.83	0.21	-0.21		0.57	1.8	0.24	0.3
	3/28/2019 10:08	6.99	924.87	6.98	679.84	690.00	8.7	1800.0	11.14	11.39	0.25	0.31		0.57	1.2	0.17	0.2
	4/3/2019 11:06	6.04	930.91	6.04	685.88	698.80	8.8	1808.8	11.04	11.31	0.27	0.21		0.57	1.5	0.19	0.3
	4/10/2019 10:12	6.96	937.88	6.96	692.84	707.80	9.0	1817.8	11.33	11.60	0.27	0.50		0.57	1.3	0.17	0.2
	4/18/2019 12:22	8.09	945.97	7.87	700.71	711.10	3.3	1821.1	10.46	12.85	2.39	-0.37		0.57	0.4	0.06	0.1
	4/26/2019 12:28	8.00	953.97	8.00	708.71	715.20	4.1	1825.2	10.90	13.15	2.25	0.07		0.57	0.5	0.07	0.1
	5/3/2019 12:22	7.00	960.97	7.00	715.71	727.20	12.0	1837.2	10.52	12.41	1.89	-0.31		0.57	1.7	0.23	0.3
	5/7/2019 9:45	3.89	964.86	3.40	719.11	736.60	9.4	1846.6	11.22	11.45	0.23	0.39		0.57	2.8	0.37	0.5

Assumed LNAPL specific gravity = 0.854

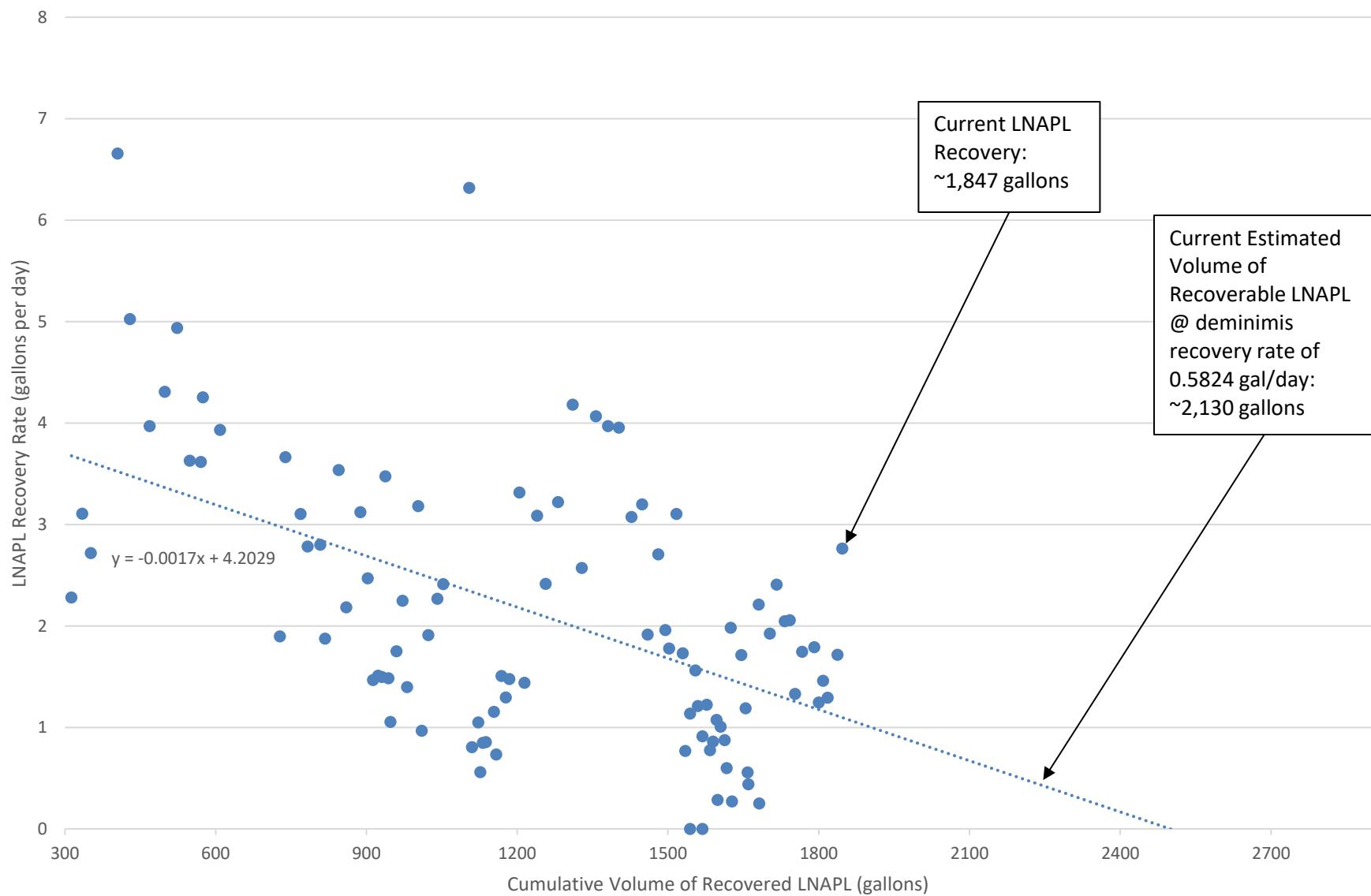
All calculations performed pursuant to the methodology detailed in ASTM E2856-13

^aThe maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.^bRepresents the geometric mean of the stabilized recovery rates/LNAPL transmissivity estimates (i.e., excludes initial elevated values that would not represent potential long-term recovery rates).

AW-9: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time

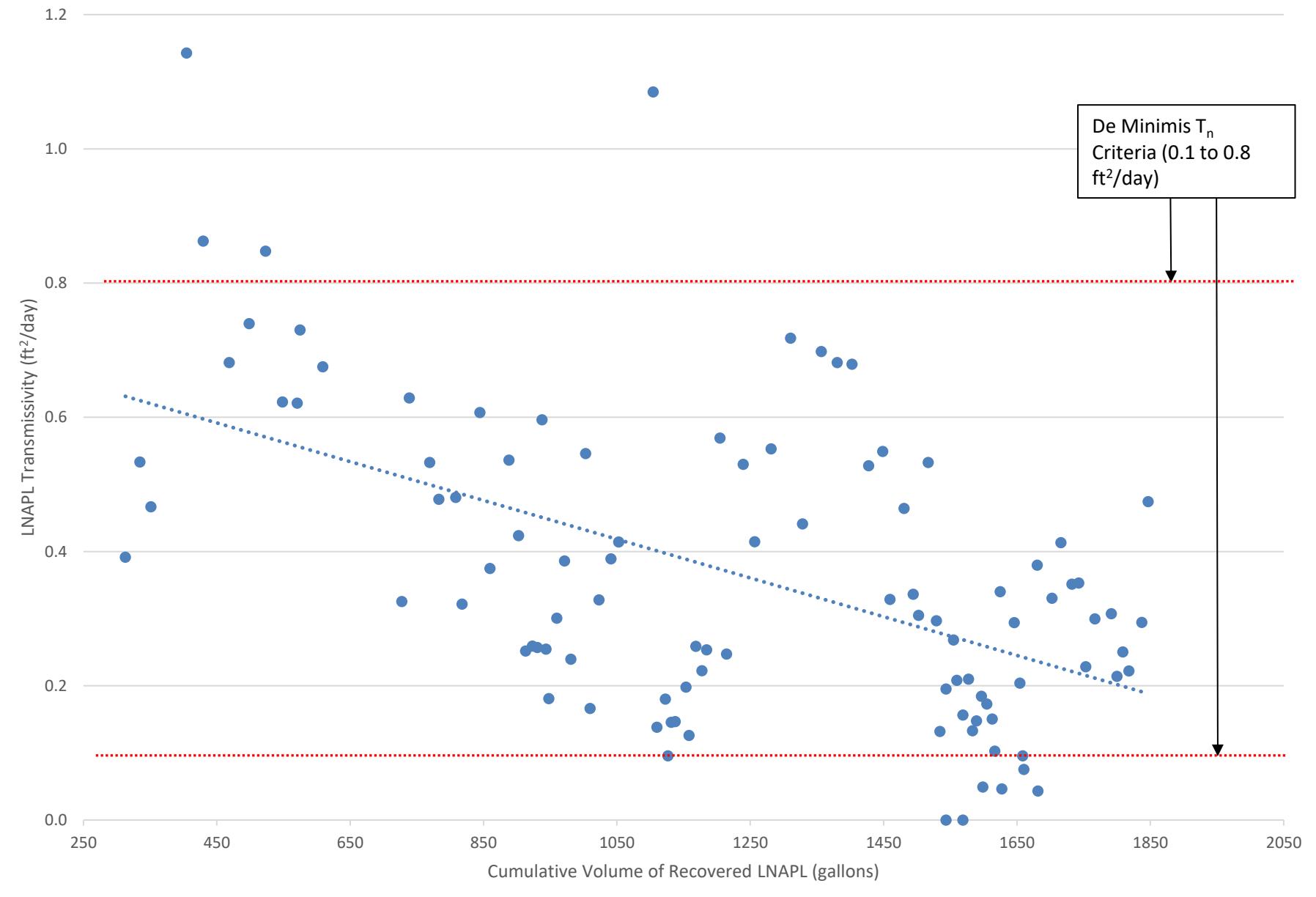


AW-9: LNAPL Volumetric Recovery Decline Curve Analysis



Note: Only data following stabilization of LNAPL recovery and during intervals without skimmer operation issues are depicted and were utilized to develop the recovery decline curve analysis

AW-9: LNAPL Transmissivity Decline Curve Analysis



Appendix A

AW-11 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
Equilibrium	--	--		--	--	--	--	10.75	14.14	3.39	--	0.49	--	--	--	--	
AW-11 Short term test	6/28/2016 9:45	--		--	--	--	--	10.21	13.32	3.11	--	--	--	--	--	--	
	6/28/2016 14:00	0.18		0.18	0.18	6.16	6.16	6.16	--	--	--	0.49	34.8	4.65	6.9		
	7/1/2016 9:40	2.82		2.81	2.99	18.06	11.90	18.06	10.40	12.38	1.98	-0.35	0.49	4.2	0.57	0.8	
	7/7/2016 13:50	6.17		6.17	9.16	41.86	23.80	41.86	10.87	13.23	2.36	0.12	0.49	3.9	0.52	0.8	
	7/11/2016 12:40	3.95		2.28	11.45	52.1	10.3	52.1	11.14	12.98	1.84	0.39	0.49	4.5	0.60	0.9	
	7/12/2016 9:25	0.86		0.65	12.10	58.7	6.6	58.7	11.25	12.65	1.40	0.50	0.49	10.1	1.35	2.0	
	7/12/2016 12:25	0.13		0.13	12.23	59.5	0.8	59.5	11.39	12.70	1.31	0.64	0.49	6.6	0.88	1.3	
	7/19/2016 12:22	7.00		6.80	19.02	91.5	32.0	91.5	11.18	11.97	0.79	0.43	0.49	4.7	0.63	0.9	
AW-11 Long-Term Test	7/27/2016 12:15	5.95		5.85	27.24	119.4	27.9	119.4	11.80	12.00	0.20	1.05	0.49	4.8	0.64	1.0	
	1/19/2017 14:16	--	0.00	--	--	--	--	119.4	11.06	14.95	3.89	--	--	--	--	--	
	1/20/2017 11:15	0.87	0.87	0.62	0.62	11.3	11.3	130.8	11.82	12.14	0.32	1.07	0.49	18.4	2.46	3.7	
	1/26/2017 12:52	6.07	6.94	6.07	6.68	31.3	20.0	150.8	11.19	11.51	0.32	0.44	0.49	3.3	0.44	0.7	
	1/31/2017 12:36	4.99	11.93	4.97	11.65	47.6	16.3	167.0	11.41	11.70	0.29	0.66	0.49	3.3	0.44	0.7	
	2/7/2017 12:39	7.00	18.93	7.00	18.65	143.5	95.9	262.9	11.72	11.90	0.18	0.97	0.49	13.7	1.83	2.7	
	2/13/2017 14:02	6.06	24.99	6.06	24.71	159.1	15.6	278.5	11.44	11.90	0.46	0.69	0.49	2.6	0.34	0.5	
	2/4/2017 14:41	1.03	26.02	1.03	25.74	161.6	2.5	281.0	11.26	11.49	0.23	0.51	0.49	2.5	0.33	0.5	
	2/23/2017 10:58	8.85	34.86	8.85	34.58	174.1	12.5	293.5	11.25	11.60	0.35	0.50	0.49	1.4	0.19	0.3	
	3/3/2017 10:00	7.96	42.82	7.86	42.44	184.6	10.5	304.0	12.12	12.25	0.13	1.37	0.49	1.3	0.18	0.3	
	3/7/2017 13:18	4.14	46.96	4.14	46.57	188.9	4.3	308.3	11.85	12.15	0.30	1.10	0.49	1.0	0.14	0.2	
	3/10/2017 10:13	2.87	49.83	2.87	49.45	199.4	10.6	318.8	11.70	12.02	0.32	0.95	0.49	3.7	0.49	0.7	
	3/16/2017 11:08	6.04	55.87	6.00	55.44	205.6	6.2	325.0	12.26	12.49	0.23	1.51	0.49	1.0	0.14	0.2	
	3/23/2017 10:30	6.97	62.84	6.97	62.42	277.6	72.0	397.0	12.22	12.45	0.23	1.47	0.49	10.3	1.38	2.1	
	3/31/2017 8:10	7.90	70.75	0.33	62.75	287.8	10.2	407.2	11.78	13.10	1.32	1.03	0.49	30.9	4.13	6.2	
	4/3/2017 9:51	3.07	73.82	3.07	65.82	445.3	157.5	564.7	12.71	12.75	0.04	1.96	0.49	51.3	6.86	10.2	
	4/13/2017 11:35	10.07	83.89	9.81	75.63	458.6	13.3	578.0	11.84	12.09	0.25	1.09	0.49	1.4	0.18	0.3	
	4/18/2017 11:13	4.98	88.87	4.98	80.61	467.7	9.1	587.1	11.90	12.16	0.26	1.15	0.49	1.8	0.24	0.4	
	4/27/2017 11:11	9.00	97.87	9.00	89.61	478.6	10.9	598.0	11.74	12.08	0.34	0.99	0.49	1.2	0.16	0.2	
	5/2/2017 12:51	5.07	102.94	5.07	94.68	486.9	8.3	606.3	12.25	13.39	1.14	1.50	0.49	1.6	0.22	0.3	
	5/10/2017 10:54	7.92	110.86	7.65	102.34	500.6	13.7	620.0	12.09	12.38	0.29	1.34	0.49	1.8	0.24	0.4	
	5/17/2017 7:54	6.88	117.73	6.88	109.21	512.6	12.0	632.0	12.11	12.34	0.23	1.36	0.49	1.7	0.23	0.3	
	5/26/2017 11:06	9.13	126.87	9.13	118.35	527.3	14.7	646.7	12.02	12.21	0.19	1.27	0.49	1.6	0.22	0.3	
	6/1/2017 8:10	5.88	132.75	5.83	124.18	532.6	5.3	652.0	11.89	12.19	0.30	1.14	0.49	0.9	0.12	0.2	
	6/8/2017 11:30	7.14	139.88	7.14	131.32	540.7	8.1	660.1	11.31	11.48	0.17	0.56	0.49	1.1	0.15	0.2	
	6/15/2017 10:45	6.97	146.85	6.70	138.02	550.0	9.3	669.4	11.85	11.98	0.13	1.10	0.49	1.4	0.19	0.3	
	6/20/2017 10:04	4.97	151.82	4.97	142.99	554.6	4.6	674.0	11.99	12.24	0.25	1.24	0.49	0.9	0.12	0.2	
	6/22/2017 10:50	2.03	153.86	2.03	145.03	581.8	27.2	701.2	11.86	12.02	0.16	1.11	0.49	13.4	1.79	2.7	
	6/26/2017 11:23	4.02	157.88	4.02	149.05	595.7	13.9	715.1	12.09	12.12	0.03	1.34	0.49	3.5	0.46	0.7	
	6/30/2017 11:52	4.02	161.90	4.02	153.07	605.7	10.0	725.1	11.66	11.88	0.22	0.91	0.49	2.5	0.33	0.5	
	7/7/2017 8:24	6.86	168.76	6.86	159.92	618.7	13.0	738.1	11.28	11.49	0.21	0.53	0.49	1.9	0.25	0.4	
	7/12/2017 14:29	5.25	174.01	5.25	165.17	628.7	10.0	748.1	11.19	11.40	0.21	0.44	0.49	1.9	0.25	0.4	

Appendix A

AW-11 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
	9/22/2017 8:39	--	245.77	--	--	--	--	853.1	10.08	12.32	2.24	--		--	--	--	
	9/22/2017 9:56	0.05	245.82	0.05	220.66	736.7	3.0	856.1	10.77	10.98	0.21	0.02		0.49	56.7	7.57	11.3
	9/29/2017 13:35	7.15	252.97	7.15	227.81	752.9	16.2	872.3	10.61	10.78	0.17	-0.14		0.49	2.3	0.30	0.5
	10/6/2017 13:55	7.01	259.99	0.37	228.18	752.9	0.0	872.3	9.98	10.95	0.97	-0.77		0.49	0.0	0.00	0.0
	10/12/2017 11:42	5.91	265.89	5.90	234.08	764.9	12.0	884.3	10.83	10.99	0.16	0.08		0.49	2.0	0.27	0.4
	10/19/2017 11:50	7.01	272.90	4.08	238.15	771.7	6.8	891.1	10.22	11.44	1.22	-0.53		0.49	1.7	0.22	0.3
	11/2/2017 9:15	13.89	286.79	13.88	252.03	798.6	26.9	918.0	11.21	11.45	0.24	0.46		0.49	1.9	0.26	0.4
	11/8/2017 12:27	6.13	292.92	6.13	258.17	804.8	6.2	924.2	11.17	11.39	0.22	0.42		0.49	1.0	0.14	0.2
	11/15/2017 11:50	6.97	299.90	6.97	265.13	811.6	6.8	931.0	11.03	11.22	0.19	0.28		0.49	1.0	0.13	0.2
	11/22/2017 10:36	6.95	306.85	6.94	272.07	820.6	9.0	940.0	11.52	11.79	0.27	0.77		0.49	1.3	0.17	0.3
	11/30/2017 11:32	8.04	314.89	7.86	279.93	830.6	10.0	950.0	11.47	11.72	0.25	0.72		0.49	1.3	0.17	0.3
	12/6/2017 12:19	6.03	320.92	6.03	285.96	834.6	4.0	954.0	11.16	11.38	0.22	0.41		0.49	0.7	0.09	0.1
	12/13/2017 11:08	6.95	327.87	6.94	292.90	840.6	6.0	960.0	11.59	11.82	0.23	0.84		0.49	0.9	0.12	0.2
	12/21/2017 13:00	8.08	335.95	8.07	300.97	846.6	6.0	966.0	11.55	11.68	0.13	0.80		0.49	0.7	0.10	0.1
	12/28/2017 13:48	7.03	342.98	6.75	307.72	853.2	6.6	972.6	11.80	12.05	0.25	1.05		0.49	1.0	0.13	0.2
	1/5/2018 14:01	8.01	350.99	8.00	315.72	858.6	5.4	978.0	11.52	11.75	0.23	0.77		0.49	0.7	0.09	0.1
	1/12/2018 13:09	6.96	357.95	6.27	322.00	864.6	6.0	984.0	11.74	11.95	0.21	0.99		0.49	1.0	0.13	0.2
	1/19/2018 13:55	7.03	364.99	7.03	329.02	871.8	7.2	991.2	11.56	11.84	0.28	0.81		0.49	1.0	0.14	0.2
	1/26/2018 9:47	6.83	371.81	6.83	335.85	875.6	3.8	995.0	12.17	12.42	0.25	1.42		0.49	0.6	0.07	0.1
	2/1/2018 12:25	6.11	377.92	5.74	341.59	879.6	4.0	999.0	11.58	11.86	0.28	0.83		0.49	0.7	0.09	0.1
	2/7/2018 9:12	5.87	383.79	5.86	347.45	885.6	6.0	1005.0	11.96	12.28	0.32	1.21		0.49	1.0	0.14	0.2
	2/15/2018 12:21	8.13	391.92	8.12	355.57	890.6	5.0	1010.0	11.50	11.74	0.24	0.75		0.49	0.6	0.08	0.1
	2/22/2018 14:34	7.09	399.01	7.09	362.66	895.6	5.0	1015.0	11.67	11.89	0.22	0.92		0.49	0.7	0.09	0.1
	2/28/2018 8:27	5.75	404.76	5.74	368.40	898.6	3.0	1018.0	11.32	11.55	0.23	0.57		0.49	0.5	0.07	0.1
	3/8/2018 9:39	8.05	412.81	7.77	376.17	902.6	4.0	1022.0	11.67	11.99	0.32	0.92		0.49	0.5	0.07	0.1
	3/15/2018 12:50	7.13	419.94	7.06	383.23	910.6	8.0	1030.0	11.62	11.86	0.24	0.87		0.49	1.1	0.15	0.2
	3/22/2018 12:06	6.97	426.91	6.96	390.19	916.6	6.0	1036.0	12.13	12.31	0.18	1.38		0.49	0.9	0.12	0.2
	3/29/2018 11:21	6.97	433.88	0.55	390.73	923.2	6.6	1042.6	11.55	11.88	0.33	0.80		0.49	12.1	1.62	2.4
	4/6/2018 11:18	8.00	441.88	7.99	398.72	927.6	4.4	1047.0	11.95	12.26	0.31	1.20		0.49	0.6	0.07	0.1
	4/12/2018 12:25	6.05	447.92	6.04	404.76	930.9	3.3	1050.3	11.77	12.00	0.23	1.02		0.49	0.5	0.07	0.1
	4/18/2018 13:10	6.03	453.95	6.03	410.80	938.6	7.7	1058.0	10.95	11.19	0.24	0.20		0.49	1.3	0.17	0.3
	4/27/2018 13:09	9.00	462.95	7.99	418.79	941.8	3.2	1061.2	11.56	11.78	0.22	0.81		0.49	0.4	0.05	0.1
	5/3/2018 14:55	6.07	469.03	1.17	419.95	945.6	3.8	1065.0	11.65	11.95	0.30	0.90		0.49	3.3	0.44	0.7
	5/9/2018 12:15	5.89	474.92	5.88	425.84	952.0	6.4	1071.4	11.83	12.05	0.22	1.08		0.49	1.1	0.15	0.2
	5/17/2018 12:50	8.02	482.94	7.99	433.83	959.5	7.5	1078.9	11.52	11.77	0.25	0.77		0.49	0.9	0.13	0.2
	5/25/2018 12:11	7.97	490.91	7.64	441.48	965.8	6.3	1085.2	11.55	11.77	0.22	0.80		0.49	0.8	0.11	0.2
	5/31/2018 10:20	5.92	496.84	4.23	445.71	968.2	2.4	1087.6	11.22	11.53	0.31	0.47		0.49	0.6	0.08	0.1
	6/7/2018 13:15	7.12	503.96	7.11	452.82	973.7	5.5	1093.1	11.24	11.48	0.24	0.49		0.49	0.8	0.10	0.2
	6/14/2018 11:55	6.94	510.90	6.94	459.76	982.0	8.3	1101.4	10.94	11.07	0.13	0.19		0.49	1.2	0.16	0.2
	6/22/2018 14:08	8.09	518.99	8.09	467.84	995.0	13.0	1114.4	11.41	11.70	0.2						

Appendix A

AW-11 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
	10/17/2018 8:45	6.91	635.77	6.91	579.74	1136.9	9.2	1256.3	11.20	11.45	0.25	0.45		0.49	1.3	0.18	0.3
	10/23/2018 13:00	6.18	641.95	5.97	585.71	1142.9	6.0	1262.3	11.02	11.26	0.24	0.27		0.49	1.0	0.13	0.2
	11/1/2018 10:46	8.91	650.85	8.91	594.62	1153.4	10.5	1272.8	11.53	11.76	0.23	0.78		0.49	1.2	0.16	0.2
	11/8/2018 14:20	7.15	658.00	7.15	601.77	1160.9	7.5	1280.3	11.26	11.49	0.23	0.51		0.49	1.0	0.14	0.2
	11/16/2018 12:20	7.92	665.92	7.92	609.68	1162.0	1.1	1281.4	11.30	11.90	0.60	0.55		0.49	0.1	0.02	0.0
	11/20/2018 10:31	3.92	669.84	3.71	613.39	1170.0	8.0	1289.4	10.90	11.12	0.22	0.15		0.49	2.2	0.29	0.4
	11/29/2018 12:06	9.07	678.91	9.07	622.46	1173.0	3.0	1292.4	11.39	11.55	0.16	0.64		0.49	0.3	0.04	0.1
	12/5/2018 12:17	6.01	684.92	6.01	628.47	1182.0	9.0	1301.4	10.90	11.11	0.21	0.15		0.49	1.5	0.20	0.3
	12/10/2018 12:40	5.02	689.93	5.01	633.48	1189.0	7.0	1308.4	10.49	10.61	0.12	-0.26		0.49	1.4	0.19	0.3
	12/14/2018 11:40	3.96	693.89	3.94	637.43	1191.0	2.0	1310.4	10.76	10.97	0.21	0.01		0.49	0.5	0.07	0.1
	12/19/2018 10:44	4.96	698.85	4.78	642.21	1198.0	7.0	1317.4	10.47	10.62	0.15	-0.28		0.49	1.5	0.20	0.3
	12/28/2018 14:30	9.16	708.01	9.16	651.36	1201.9	3.9	1321.3	10.65	10.80	0.15	-0.10		0.49	0.4	0.06	0.1
	1/3/2019 10:56	5.85	713.86	0.00	651.37	1202.9	1.0	1322.3	10.48	12.12	1.64	-0.27		0.49	308.6	41.25	61.6
	1/7/2019 10:46	3.99	717.85	3.99	655.36	1210.9	8.0	1330.3	10.96	11.17	0.21	0.21		0.49	2.0	0.27	0.4
	1/18/2019 13:28	11.11	728.97	10.41	665.77	1224.2	13.3	1343.6	11.16	11.61	0.45	0.41		0.49	1.3	0.17	0.3
	1/24/2019 13:03	5.98	734.95	5.98	671.75	1229.1	4.9	1348.5	10.76	10.96	0.20	0.01		0.49	0.8	0.11	0.2
	1/31/2019 10:35	6.90	741.85	6.90	678.65	1235.4	6.3	1354.8	11.36	11.61	0.25	0.61		0.49	0.9	0.12	0.2
	2/8/2019 9:57	7.97	749.82	7.97	686.62	1253.9	18.5	1373.3	11.36	11.51	0.15	0.61		0.49	2.3	0.31	0.5
	2/13/2019 10:12	5.01	754.83	4.93	691.55	1258.6	4.7	1378.0	11.59	11.82	0.23	0.84		0.49	1.0	0.13	0.2
	2/21/2019 11:16	8.04	762.88	8.04	699.60	1264.0	5.4	1383.4	11.07	11.26	0.19	0.32		0.49	0.7	0.09	0.1
	3/1/2019 10:25	7.96	770.84	7.96	707.56	1269.2	5.2	1388.6	11.40	11.66	0.26	0.65		0.49	0.7	0.09	0.1
	3/7/2019 10:00	5.98	776.82	5.98	713.54	1272.6	3.4	1392.0	11.31	11.54	0.23	0.56		0.49	0.6	0.08	0.1
	3/13/2019 10:26	6.02	782.84	5.77	719.32	1274.3	1.7	1393.7	11.35	11.57	0.22	0.60		0.49	0.3	0.04	0.1
	3/21/2019 9:52	7.98	790.82	7.98	727.29	1276.1	1.8	1395.5	11.11	11.34	0.23	0.36		0.49	0.2	0.03	0.0
	3/28/2019 9:52	7.00	797.82	7.00	734.29	1288.3	12.2	1407.7	11.37	11.62	0.25	0.62		0.49	1.7	0.23	0.3
	4/3/2019 10:49	6.04	803.86	6.04	740.33	1295.4	7.1	1414.8	11.47	11.68	0.21	0.72		0.49	1.2	0.16	0.2
	4/10/2019 10:00	6.97	810.82	6.76	747.09	1300.4	5.0	1419.8	11.61	11.87	0.26	0.86		0.49	0.7	0.10	0.1
	4/18/2019 12:10	8.09	818.91	8.09	755.18	1306.4	6.0	1425.8	11.22	11.47	0.25	0.47		0.49	0.7	0.10	0.1
	4/26/2019 12:49	8.03	826.94	8.03	763.21	1312.2	5.8	1431.6	11.52	11.78	0.26	0.77		0.49	0.7	0.10	0.1
	5/3/2019 12:35	6.99	833.93	6.78	769.99	1318.4	6.2	1437.8	11.25	11.48	0.23	0.50		0.49	0.9	0.12	0.2
	5/7/2019 9:50	3.89	837.82	3.33	773.32	1321.8	3.4	1441.2	11.65	11.97	0.32	0.90		0.49	1.0	0.14	0.2

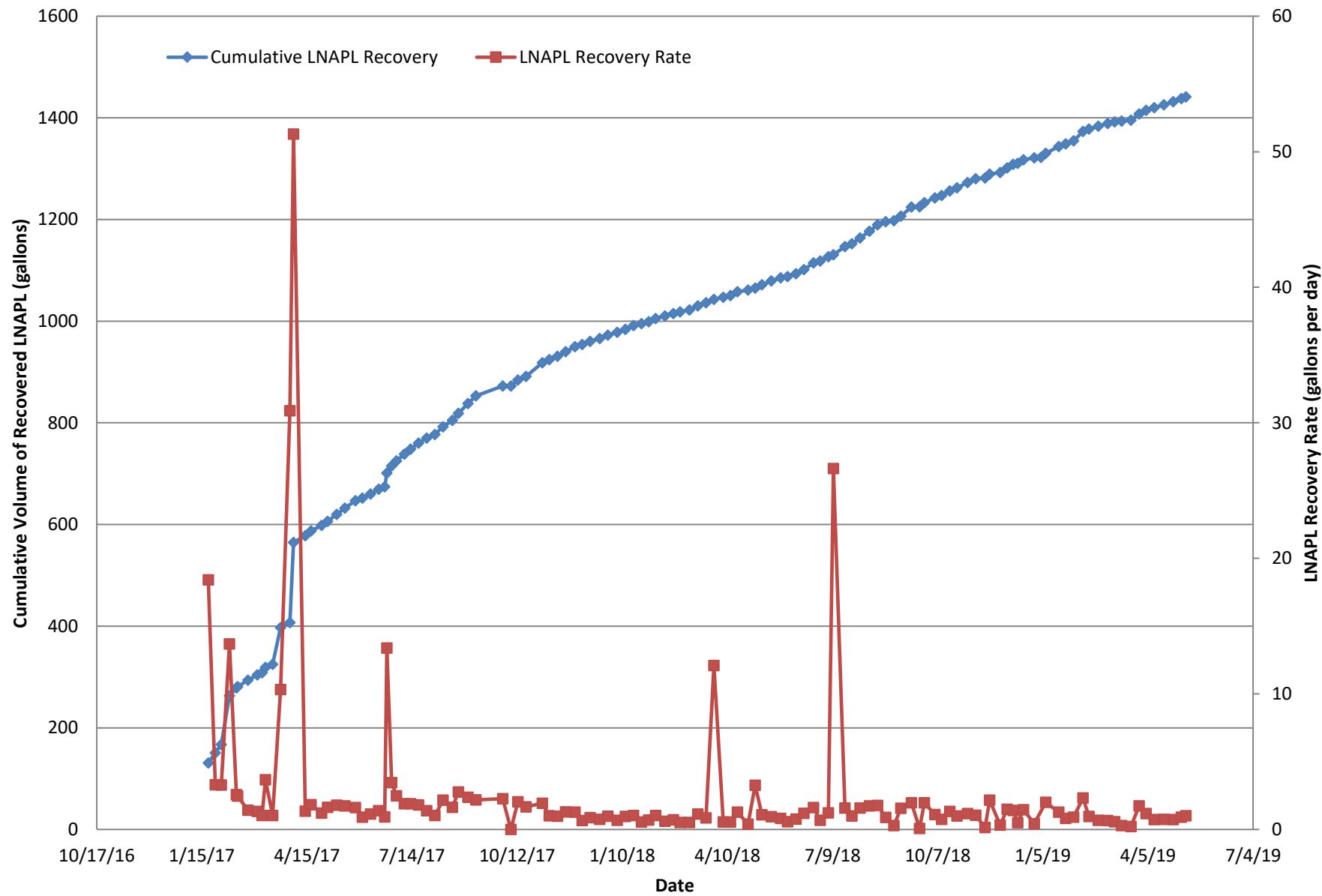
0.854

Assumed LNAPL specific gravity =

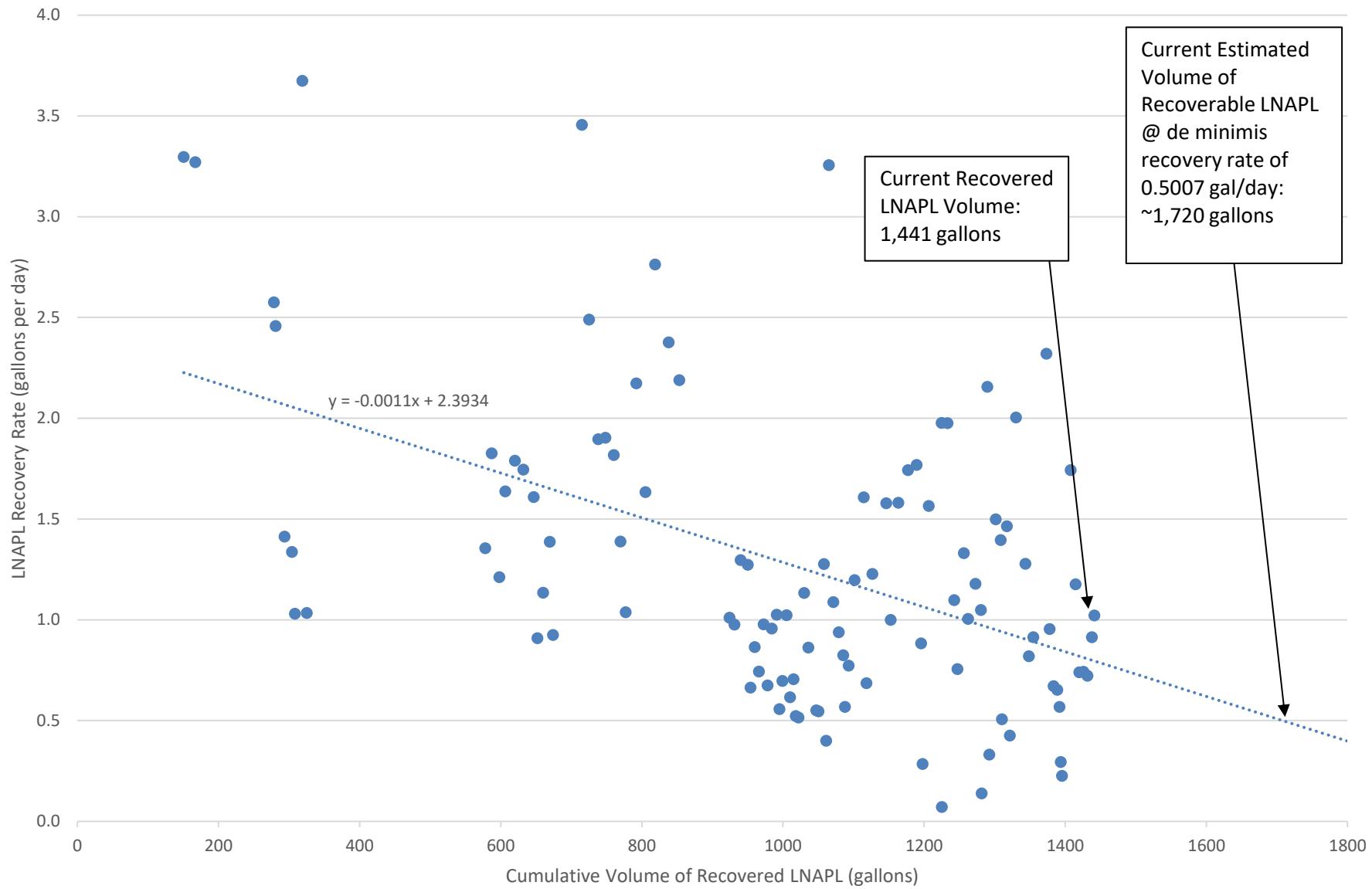
All calculations performed pursuant to the methodology detailed in ASTM E2856-13

^aThe maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.^bRepresents the geometric mean of the stabilized recovery rates/LNAPL transmissivity estimates (i.e., excludes initial elevated values that would not represent potential long-term recovery rates).

AW-11: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time

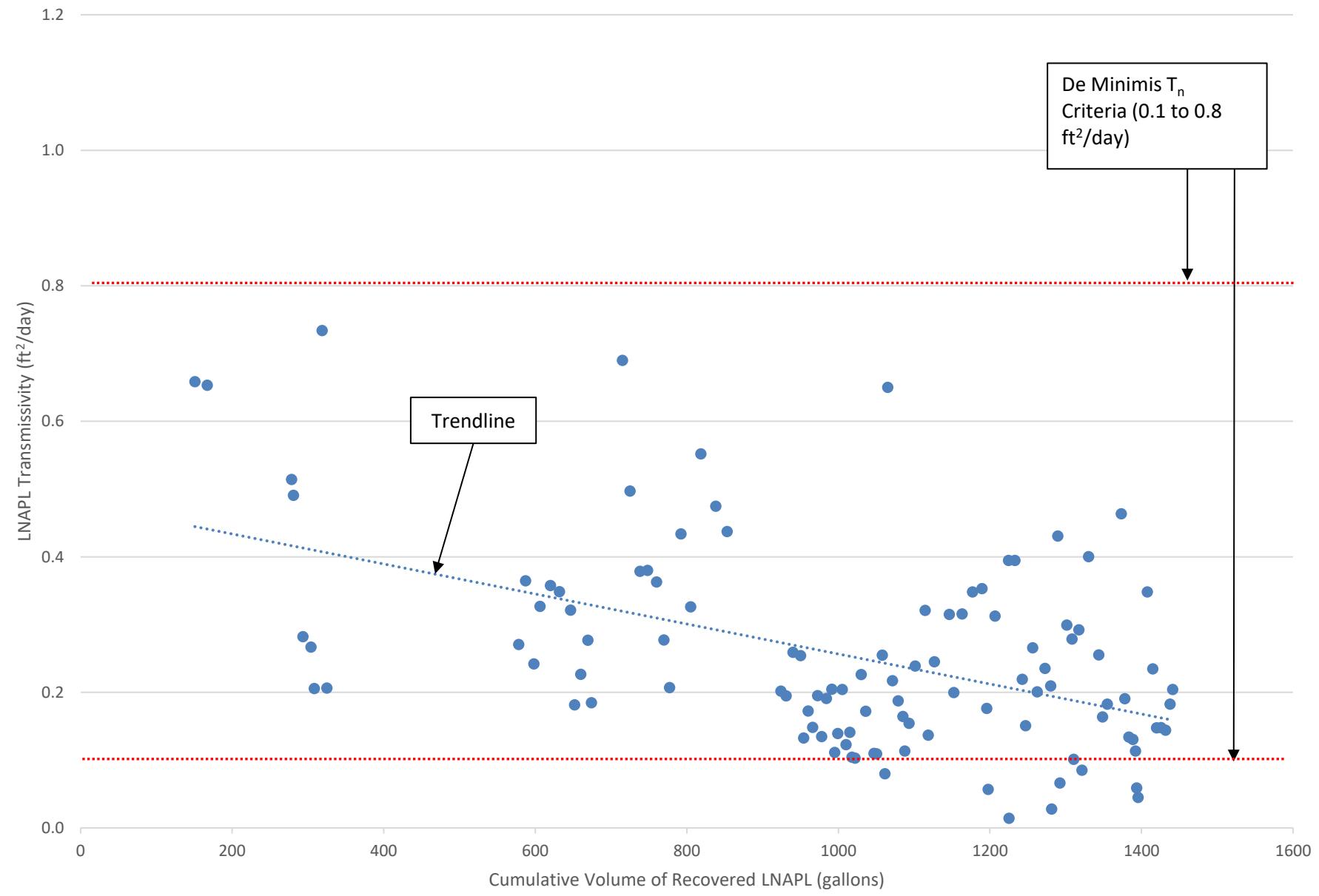


AW-11: LNAPL Volumetric Recovery Decline Curve Analysis



Note: Only data following stabilization of LNAPL recovery and during intervals without skimmer operation issues are depicted and were utilized to develop the recovery decline curve analysis

AW-11: LNAPL Transmissivity Decline Curve Analysis



Appendix A

AW-49 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-49 Short term test	Equilibrium	--	--	--	--	--	--	--	12.92	16.35	3.43	--	0.50	--	--	--	--
	6/8/2016 17:00	--	--	--	--	--	--	--	12.71	17.76	5.05	--	--	--	--	--	--
	6/9/2016 9:00	0.67		0.67	0.67	7.8	7.8	7.8	11.36	16.24	4.88	-1.56		0.50	11.7	1.56	2.3
	6/10/2016 7:17	0.93		0.92	1.58	8.6	0.8	8.6	11.16	16.20	5.04	-1.76		0.50	0.8	0.11	0.2
	6/13/2016 10:35	2.92		2.88	4.67	20.1	11.5	20.1	11.50	16.89	5.39	-1.42		0.50	4.0	0.54	0.8
	6/22/2016 17:10	9.27		9.15	13.82	45.3	25.2	45.3	11.72	16.91	5.19	-1.20		0.50	2.8	0.37	0.5
	6/27/2016 15:50	4.94		0.00	13.82	45.3	0.0	45.3	11.70	17.02	5.32	-1.22		0.50	0.0	0	0
AW-49 Long-Term Test	9/14/2016 16:35	--	--	--	--	--	--	--	12.15	15.80	3.65	--	--	--	--	--	--
	9/14/2016 17:20	0.03	0.0	0.03	0.03	2.3	2.3	47.6	12.25	14.55	2.30	-0.67		0.50	73.6	9.84	14.4
	9/15/2016 8:15	0.62	0.6	0.62	0.65	21.1	18.8	66.4	12.25	12.41	0.16	-0.67		0.50	30.2	4.04	5.9
	9/15/2016 8:45	0.02	0.6	0.02	0.67	21.6	0.5	66.9	12.21	12.41	0.20	-0.71		0.50	24.0	3.21	4.7
	9/15/2016 11:45	0.13	0.8	0.13	0.80	23.4	1.8	68.7	12.33	12.50	0.17	-0.59		0.50	14.4	1.92	2.8
	9/21/2016 12:07	6.02	6.8	5.93	6.73	134.4	111.0	179.7	12.57	12.86	0.29	-0.35		0.50	18.7	2.50	3.7
	9/22/2016 9:50	0.90	7.7	0.90	7.63	146.9	12.5	192.2	13.22	13.47	0.25	0.30		0.30	13.9	1.86	4.5
	9/28/2016 8:35	5.95	13.6	5.94	13.57	205.2	58.3	250.5	12.37	12.60	0.23	-0.55		0.50	9.8	1.31	1.9
	10/5/2016 14:32	7.25	20.9	6.26	19.83	260.7	55.5	306.0	12.16	12.29	0.13	-0.76		0.50	8.9	1.19	1.7
	END OF TEST INTERVAL - SHUTDOWN DUE TO HURRICANE																
	10/13/2016 13:00	7.94	28.8	0.00	19.83	0.0	--	306.0	10.60	15.33	4.73	-2.32		--	--	--	--
	10/20/2016 12:20	6.97	35.8	3.63	23.45	267.0	267.0	573.0	10.88	14.04	3.16	-2.04		0.50	23.1	3.09	4.5
	END OF TEST INTERVAL - SHUTDOWN DUE TO FULL TANK - PUMPED 11/21/2016																
	10/28/2016 11:23	--	43.8	--	--	--	--	573.0	11.55	13.80	2.25	--		--	--	--	--
	11/4/2016 12:30	7.05	50.8	6.13	6.13	134.0	134.0	707.0	12.35	12.67	0.32	-0.57		0.50	21.9	2.92	4.3
	11/15/2016 17:02	11.19	62.0	11.19	17.32	356.0	222.0	929.0	13.00	13.19	0.19	0.08		0.50	19.8	2.65	3.9
	END OF TEST INTERVAL - SHUTDOWN DUE TO FULL TANK																
	11/22/2016 12:34	--	68.8	6.81	--	65.0	65.0	994.0	13.00	14.30	1.30	0.08		0.50	9.5	1.28	1.9
	11/29/2016 15:35	--	75.9	7.13	--	115.0	50.0	1044.0	13.06	14.44	1.38	0.14		0.50	7.0	0.94	1.4
	12/7/2016 13:20	--	83.8	--	--	--	--	1044.0	12.87	13.40	0.53	--		--	--	--	--
	12/14/2016 9:50	--	90.7	--	--	--	--	1044.0	12.35	13.00	0.65	--		--	--	--	--
	SHUTDOWN DUE TO FULL TANK																
	12/21/2016 9:20	--	97.7	--	--	--	--	1044.0	12.93	14.30	1.37	--		--	--	--	--
	12/27/2016 12:40	6.14	103.8	6.13	6.14	29.7	29.7	1073.7	13.03	13.40	0.37	0.11		0.50	4.8	0.65	0.9
	1/4/2017 13:03	8.02	111.8	8.00	14.14	68.5	38.8	1112.5	13.05	13.26	0.21	0.13		0.50	4.8	0.65	0.9
	1/9/2017 11:36	4.94	116.8	4.93	19.07	84.4	15.9	1128.4	13.41	13.68	0.27	0.49		0.50	3.2	0.43	0.6
	1/19/2017 14:12	10.11	126.9	5.51	24.58	100.1	15.7	1144.1	12.45	14.48	2.03	-0.47		0.50	2.8	0.38	0.6
	1/20/2017 10:49	0.86	127.7	0.12	24.71	100.1	0.0	1144.1	13.36	14.74	1.38	0.44		0.50	0.0	0.00	0.0
	1/23/2017 15:17	3.19	130.9	1.58	26.28	105.5	5.4	1149.6	12.82	13.83	1.01	-0.10		0.50	3.4	0.46	0.7
	1/26/2017 13:01	2.91	133.8	2.90	29.18	125.5	20.0	1169.6	12.92	13.22	0.30	0.00		0.50	6.9	0.92	1.3
	1/31/2017 12:55	5.00	138.8	4.99	34.17	147.2	21.7	1191.3	12.65	12.90	0.25	-0.27		0.50	4.3	0.58	0.9
	2/7/2017 12:56	7.00	145.8	6.99	41.17	168.8	21.5	1212.8	13.17	13.30	0.13	0.25		0.50	3.1	0.41	0.6
	2/13/2017 14:28	6.06	151.9	6.06	47.23	195.8	27.0	1239.8	13.30	13.61	0.31	0.38		0.50	4.5	0.60	0.9
	2/14/2017 14:24	1.00	152.9	1.00	48.22	197.5	1.7	1241.5	12.99	13.21	0.22	0.07		0.50	1.7</td		

Appendix A

**AW-49 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia**

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-49 Long-Term Test	4/3/2017 10:10	3.06	200.7	2.81	84.39	305.8	6.0	1349.8	13.74	14.02	0.28	0.82		0.50	2.1	0.29	0.4
	4/13/2017 11:53	10.07	210.8	10.07	94.46	328.3	22.5	1372.3	13.12	13.38	0.26	0.20		0.50	2.2	0.30	0.4
	4/18/2017 11:33	4.99	215.8	4.98	99.43	340.0	11.7	1384.0	13.70	14.10	0.40	0.78		0.50	2.4	0.31	0.5
	4/27/2017 11:03	8.98	224.7	8.97	108.41	356.3	16.3	1400.3	13.00	13.35	0.35	0.08		0.50	1.8	0.24	0.4
	5/2/2017 12:47	5.07	229.8	4.82	113.23	365.8	9.5	1409.8	13.69	13.96	0.27	0.77		0.50	2.0	0.26	0.4
	5/10/2017 10:47	7.92	237.7	7.91	121.14	385.5	19.7	1429.5	13.40	13.68	0.28	0.48		0.50	2.5	0.33	0.5
	5/17/2017 7:46	6.87	244.6	6.87	128.00	405.8	20.3	1449.8	13.85	14.08	0.23	0.93		0.50	3.0	0.40	0.6
	5/26/2017 10:51	9.13	253.7	9.12	137.13	427.8	22.0	1471.8	13.35	13.58	0.23	0.43		0.50	2.4	0.32	0.5
	6/1/2017 8:02	5.88	259.6	5.62	142.75	439.8	12.0	1483.8	13.55	13.79	0.24	0.63		0.50	2.1	0.29	0.4
	6/8/2017 11:40	7.15	266.8	7.14	149.89	445.1	5.3	1489.1	12.87	13.00	0.13	-0.05		0.50	0.7	0.10	0.1
	6/15/2017 11:16	6.98	273.7	6.98	156.87	454.4	9.3	1498.4	13.51	13.79	0.28	0.59		0.50	1.3	0.18	0.3
	6/20/2017 9:56	4.94	278.7	4.94	161.81	463.8	9.4	1507.8	13.52	13.74	0.22	0.60		0.50	1.9	0.25	0.4
	6/22/2017 10:46	2.03	280.7	2.03	163.84	467.8	4.0	1511.8	13.13	13.41	0.28	0.21		0.50	2.0	0.26	0.4
	6/26/2017 11:42	4.04	284.8	4.04	167.88	472.8	5.0	1516.8	13.07	13.33	0.26	0.15		0.50	1.2	0.17	0.2
	6/30/2017 11:45	4.00	288.8	4.00	171.87	474.5	1.8	1518.5	13.36	13.64	0.28	0.44		0.50	0.4	0.06	0.1
	7/7/2017 8:17	6.86	295.6	6.60	178.47	481.8	7.3	1525.8	12.92	13.17	0.25	0.00		0.50	1.1	0.15	0.2
	7/12/2017 14:23	5.25	300.9	5.25	183.72	493.8	12.0	1537.8	12.86	13.12	0.26	-0.06		0.50	2.3	0.31	0.4
	7/19/2017 11:22	6.87	307.8	6.87	190.59	504.8	11.0	1548.8	13.29	13.52	0.23	0.37		0.50	1.6	0.21	0.3
	7/26/2017 11:02	6.99	314.7	6.98	197.57	518.8	14.0	1562.8	12.72	12.90	0.18	-0.20		0.50	2.0	0.27	0.4
	8/2/2017 11:54	7.04	321.8	6.78	204.35	559.8	41.0	1603.8	12.79	13.02	0.23	-0.13		0.50	6.0	0.81	1.2
	8/9/2017 9:46	6.91	328.7	6.90	211.25	597.8	38.0	1641.8	12.46	12.70	0.24	-0.46		0.50	5.5	0.74	1.1
	8/17/2017 8:40	7.95	336.6	7.95	219.20	631.7	33.9	1675.7	12.34	12.58	0.24	-0.58		0.50	4.3	0.57	0.8
	8/22/2017 12:45	5.17	341.8	5.16	224.36	667.2	35.5	1711.2	12.18	12.38	0.20	-0.74		0.50	6.9	0.92	1.3
	8/30/2017 17:22	8.19	350.0	8.15	232.51	716.1	48.9	1760.1	12.19	12.41	0.22	-0.73		0.50	6.0	0.80	1.2
	9/6/2017 13:15	6.83	356.8	5.72	238.24	750.7	34.6	1794.7	12.43	12.68	0.25	-0.49		0.50	6.0	0.81	1.2
END OF TEST INTERVAL - SHUTDOWN DUE TO HURRICANE																	
AW-49 Long-Term Test	9/21/2017 15:22	--	371.9	--	--	--	--	1794.7	11.28	13.61	2.33	--		--	--	--	--
	9/22/2017 8:05	0.70	372.6	0.70	0.70	22.0	22.0	1816.7	12.30	12.55	0.25	-0.62		0.50	31.6	4.22	6.2
	9/29/2017 13:45	7.24	379.9	7.24	7.93	105.3	83.3	1900.0	12.37	12.65	0.28	-0.55		0.50	11.5	1.54	2.3
	10/6/2017 13:21	6.98	386.8	0.46	8.40	106.4	1.1	1901.1	11.75	13.35	1.60	-1.17		0.50	2.4	0.32	0.5
	10/12/2017 11:32	5.92	392.8	5.92	14.32	126.4	20.0	1921.1	12.77	13.08	0.31	-0.15		0.50	3.4	0.45	0.7
	10/19/2017 12:00	7.02	399.8	7.02	21.34	172.8	46.4	1967.5	11.82	12.02	0.20	-1.10		0.50	6.6	0.88	1.3
	11/2/2017 9:05	13.88	413.7	13.88	35.21	218.1	45.3	2012.8	12.72	13.00	0.28	-0.20		0.50	3.3	0.44	0.6
	11/8/2017 12:21	6.14	419.8	6.14	41.35	223.1	5.0	2017.8	12.67	12.80	0.13	-0.25		0.50	0.8	0.11	0.2
	11/15/2017 11:42	6.97	426.8	6.97	48.32	223.1	0.0	2017.8	12.73	13.55	0.82	-0.19		0.50	0.0	0.00	0.0
	11/22/2017 10:28	6.95	433.7	6.71	55.03	223.1	0.0	2017.8	12.90	14.27	1.37	-0.02		0.50	0.0	0.00	0.0
	11/30/2017 11:24	8.04	441.8	8.04	63.07	238.1	15.0	2032.8	13.55	13.76	0.21	0.63		0.50	1.9	0.25	0.4
	12/6/2017 12:12	6.03	447.8	6.03	69.11	242.1	4.0	2036.8	12.64	12.80	0.16	-0.28		0.50	0.7	0.09	0.1
	12/13/2017 10:56	6.95	454.7	6.95	76.05	247.1	5.0	2041.8	14.39	15.08</td							

Appendix A

AW-49 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-49 Long-Term	2/1/2018 12:32	6.04	504.8	6.04	125.64	344.1	5.0	2138.8	13.14	13.17	0.03	0.22		0.50	0.8	0.11	0.2
	2/7/2018 8:52	5.85	510.6	5.85	131.49	369.1	25.0	2163.8	13.88	14.20	0.32	0.96		0.50	4.3	0.57	0.8
	2/15/2018 12:15	8.14	518.8	8.14	139.63	381.1	12.0	2175.8	13.25	13.31	0.06	0.33		0.50	1.5	0.20	0.3
	2/22/2018 14:27	7.09	525.9	6.85	146.48	392.1	11.0	2186.8	13.14	13.35	0.21	0.22		0.50	1.6	0.21	0.3
	2/28/2018 8:17	5.74	531.6	5.74	152.22	402.1	10.0	2196.8	12.74	12.80	0.06	-0.18		0.50	1.7	0.23	0.3
	3/8/2018 9:23	8.05	539.7	8.05	160.27	405.1	3.0	2199.8	13.54	13.84	0.30	0.62		0.50	0.4	0.05	0.1
	3/15/2018 13:35	7.17	546.8	7.14	167.41	406.1	1.0	2200.8	13.24	14.75	1.51	0.32		0.50	0.1	0.02	0.0
	3/22/2018 11:30	6.91	553.8	0.02	167.42	408.1	2.0	2202.8	13.47	15.02	1.55	0.55		0.50	113.7	15.20	22.3
	3/29/2018 11:13	6.99	560.7	6.74	174.16	416.1	8.0	2210.8	13.07	13.24	0.17	0.15		0.50	1.2	0.16	0.2
	4/6/2018 11:03	7.99	568.7	7.99	182.15	424.1	8.0	2218.8	13.74	13.96	0.22	0.82		0.50	1.0	0.13	0.2
	4/12/2018 13:00	6.08	574.8	6.08	188.24	432.1	8.0	2226.8	13.83	14.10	0.27	0.91		0.50	1.3	0.18	0.3
	4/18/2018 13:48	6.03	580.9	6.03	194.27	440.1	8.0	2234.8	13.43	13.70	0.27	0.51		0.50	1.3	0.18	0.3
	4/27/2018 13:20	8.98	589.8	7.74	202.01	448.1	8.0	2242.8	13.52	13.76	0.24	0.60		0.50	1.0	0.14	0.2
	5/3/2018 14:44	6.06	595.9	6.06	208.07	452.1	4.0	2246.8	13.33	13.65	0.32	0.41		0.50	0.7	0.09	0.1
	5/9/2018 12:07	5.89	601.8	5.89	213.96	459.1	7.0	2253.8	13.80	14.03	0.23	0.88		0.50	1.2	0.16	0.2
	5/17/2018 12:59	8.04	609.8	8.04	222.00	477.6	18.5	2272.3	13.00	13.21	0.21	0.08		0.50	2.3	0.31	0.5
	5/25/2018 12:25	7.98	617.8	7.98	229.97	482.1	4.5	2276.8	13.57	13.85	0.28	0.65		0.50	0.6	0.08	0.1
	5/31/2018 9:59	5.90	623.7	0.23	230.21	485.6	3.5	2280.3	12.83	13.09	0.26	-0.09		0.50	14.9	2.00	2.9
	6/7/2018 13:45	7.16	630.9	5.45	235.66	488.8	3.2	2283.5	12.78	13.75	0.97	-0.14		0.50	0.6	0.08	0.1
	6/14/2018 11:46	6.92	637.8	6.92	242.57	495.6	6.8	2290.3	12.47	12.68	0.21	-0.45		0.50	1.0	0.13	0.2
	6/22/2018 14:02	8.09	645.9	8.09	250.67	505.0	9.4	2299.7	13.30	13.56	0.26	0.38		0.50	1.2	0.16	0.2
	6/28/2018 10:13	5.84	651.7	3.55	254.22	509.1	4.1	2303.8	12.52	13.39	0.87	-0.40		0.50	1.2	0.15	0.2
	7/5/2018 11:14	7.04	658.7	6.80	261.02	526.6	17.5	2321.3	13.14	13.39	0.25	0.22		0.50	2.6	0.34	0.5
	7/9/2018 14:14	4.13	662.9	4.13	265.15	534.3	7.7	2329.0	13.18	13.45	0.27	0.26		0.50	1.9	0.25	0.4
	7/19/2018 11:26	9.88	672.8	9.88	275.03	550.8	16.5	2345.5	12.98	13.13	0.15	0.06		0.50	1.7	0.22	0.3
	7/25/2018 11:25	6.00	678.8	6.00	281.03	575.6	24.8	2370.3	12.57	12.85	0.28	-0.35		0.50	4.1	0.55	0.8
	8/1/2018 10:23	6.96	685.7	6.96	287.99	596.1	20.5	2390.8	12.88	13.16	0.28	-0.04		0.50	2.9	0.39	0.6
	8/9/2018 10:32	8.01	693.7	7.77	295.75	604.6	8.5	2399.3	12.30	14.08	1.78	-0.62		0.50	1.1	0.15	0.2
	8/16/2018 10:54	7.02	700.7	7.02	302.77	632.1	27.5	2426.8	13.18	13.41	0.23	0.26		0.50	3.9	0.52	0.8
	8/23/2018 11:27	7.02	707.8	7.02	309.79	653.6	21.5	2448.3	11.92	12.14	0.22	-1.00		0.50	3.1	0.41	0.6
	8/30/2018 11:48	7.01	714.8	7.01	316.81	655.9	2.3	2450.6	12.75	13.04	0.29	-0.17		0.50	0.3	0.04	0.1
	9/5/2018 10:55	5.96	720.7	5.72	322.53	671.9	16.0	2466.6	13.23	13.41	0.18	0.31		0.50	2.8	0.37	0.5
	9/14/2018 14:02	9.13	729.9	9.13	331.66	691.4	19.5	2486.1	12.32	12.55	0.23	-0.60		0.50	2.1	0.29	0.4
	9/21/2018 12:55	6.95	736.8	6.95	338.61	706.0	14.6	2500.7	13.30	13.66	0.36	0.38		0.50	2.1	0.28	0.4
	9/25/2018 13:33	4.03	740.8	4.03	342.64	714.4	8.4	2509.1	12.74	12.96	0.22	-0.18		0.50	2.1	0.28	0.4
	10/4/2018 11:54	8.93	749.8	8.69	351.33	729.9	15.5	2524.6	13.44	13.63	0.19	0.52		0.50	1.8	0.24	0.3
	10/10/2018 10:45	5.95	755.7	5.95	357.28	738.3	8.4	2533.0	12.27	12.40	0.13	-0.65		0.50	1.4	0.19	0.3
	10/17/2018 8:59	6.93	762.7	6.93	364.21	769.6	31.3	2564.3	13.25	13.64	0.39	0.33		0.50	4.5	0.60	0.9
	10/23/2018 13:20	6.18	768.8	6.18	370.39	779.6	10.0	2574.3	12.82	13.86	1.04	-0.10		0.50	1.6	0.22	0.3
	11/1/2018 10:23	8.88	777.7	0.00	370.39												

Appendix A

AW-49 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Time elapsed since start (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-49 Long-Term Test	12/19/2018 10:36	4.94	825.7	4.94	410.96	919.2	56.0	2713.9	12.27	12.46	0.19	-0.65		0.50	11.3	1.52	2.2
	12/28/2018 14:37	9.17	834.9	8.93	419.89	983.8	64.6	2778.5	12.11	12.31	0.20	-0.81		0.50	7.2	0.97	1.4
	1/3/2019 11:10	5.86	840.7	2.96	422.85	985.2	1.4	2779.9	--	--	--	--		0.50	0.5	0.06	0.1
	1/7/2019 10:52	3.99	844.7	0.00	422.85	985.2	0.0	2779.9	12.26	13.40	1.14	-0.66		0.50	--	--	--
	1/18/2019 13:47	11.12	855.9	0.00	422.85	985.2	0.0	2779.9	12.95	14.70	1.75	0.03		0.50	--	--	--
	1/24/2019 14:05	6.01	861.9	0.00	422.85	985.2	0.0	2779.9	12.17	13.45	1.28	-0.75		0.50	--	--	--
	1/31/2019 10:41	6.86	868.7	6.86	429.71	1004.7	19.5	2799.4	13.27	13.52	0.25	0.35		0.50	2.8	0.38	0.6
	2/8/2019 10:02	7.97	876.7	7.97	437.68	1019.7	15.0	2814.4	12.95	13.15	0.20	0.03		0.50	1.9	0.25	0.4
	2/13/2019 10:20	5.01	881.7	5.01	442.69	1026.2	6.5	2820.9	13.60	13.91	0.31	0.68		0.50	1.3	0.17	0.3
	2/21/2019 11:22	8.04	889.8	8.04	450.73	1036.2	10.0	2830.9	12.48	12.63	0.15	-0.44		0.50	1.2	0.17	0.2
	3/1/2019 10:31	7.96	897.7	7.76	458.50	1044.8	8.6	2839.5	13.36	13.64	0.28	0.44		0.50	1.1	0.15	0.2
	3/7/2019 10:07	5.98	903.7	5.98	464.48	1048.2	3.4	2842.9	12.80	12.97	0.17	-0.12		0.50	0.6	0.08	0.1
	3/13/2019 10:32	6.02	909.7	6.01	470.49	1051.7	3.5	2846.4	13.05	14.01	0.96	0.13		0.50	0.6	0.08	0.1
	3/21/2019 9:58	7.98	917.7	7.98	478.47	1056.9	5.2	2851.6	12.35	13.26	0.91	-0.57		0.50	0.7	0.09	0.1
	3/28/2019 10:00	7.00	924.7	6.79	485.26	1060.4	3.5	2855.1	13.30	13.59	0.29	0.38		0.50	0.5	0.07	0.1
	4/3/2019 10:55	6.04	930.7	6.04	491.30	1067.4	7.0	2862.1	13.01	13.26	0.25	0.09		0.50	1.2	0.15	0.2
	4/10/2019 10:06	6.97	937.7	6.97	498.26	1075.4	8.0	2870.1	13.39	13.62	0.23	0.47		0.50	1.1	0.15	0.2
	4/18/2019 12:16	8.09	945.8	8.09	506.35	1081.2	5.8	2875.9	12.93	13.11	0.18	0.01		0.50	0.7	0.10	0.1
	4/26/2019 12:12	8.00	953.8	7.79	514.15	1089.4	8.2	2884.1	13.35	13.57	0.22	0.43		0.50	1.1	0.14	0.2
	5/3/2019 12:12	7.00	960.8	7.00	521.15	1094.4	5.0	2889.1	12.97	13.23	0.26	0.05		0.50	0.7	0.10	0.1
	5/7/2019 9:36	3.89	964.7	3.89	525.04	1098.4	4.0	2893.1	13.19	13.42	0.23	0.27		0.50	1.0	0.14	0.2

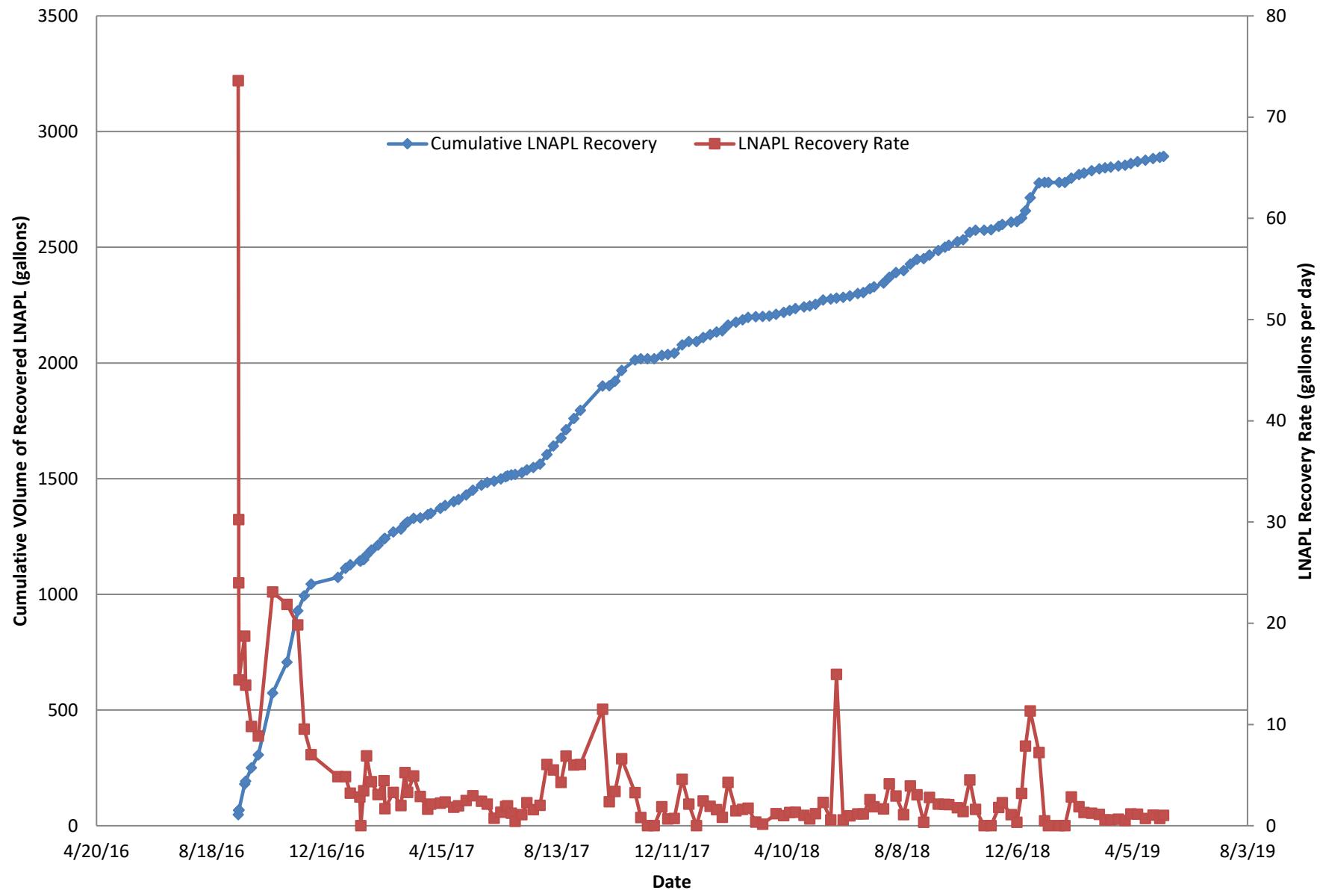
0.854

Assumed LNAPL specific gravity =

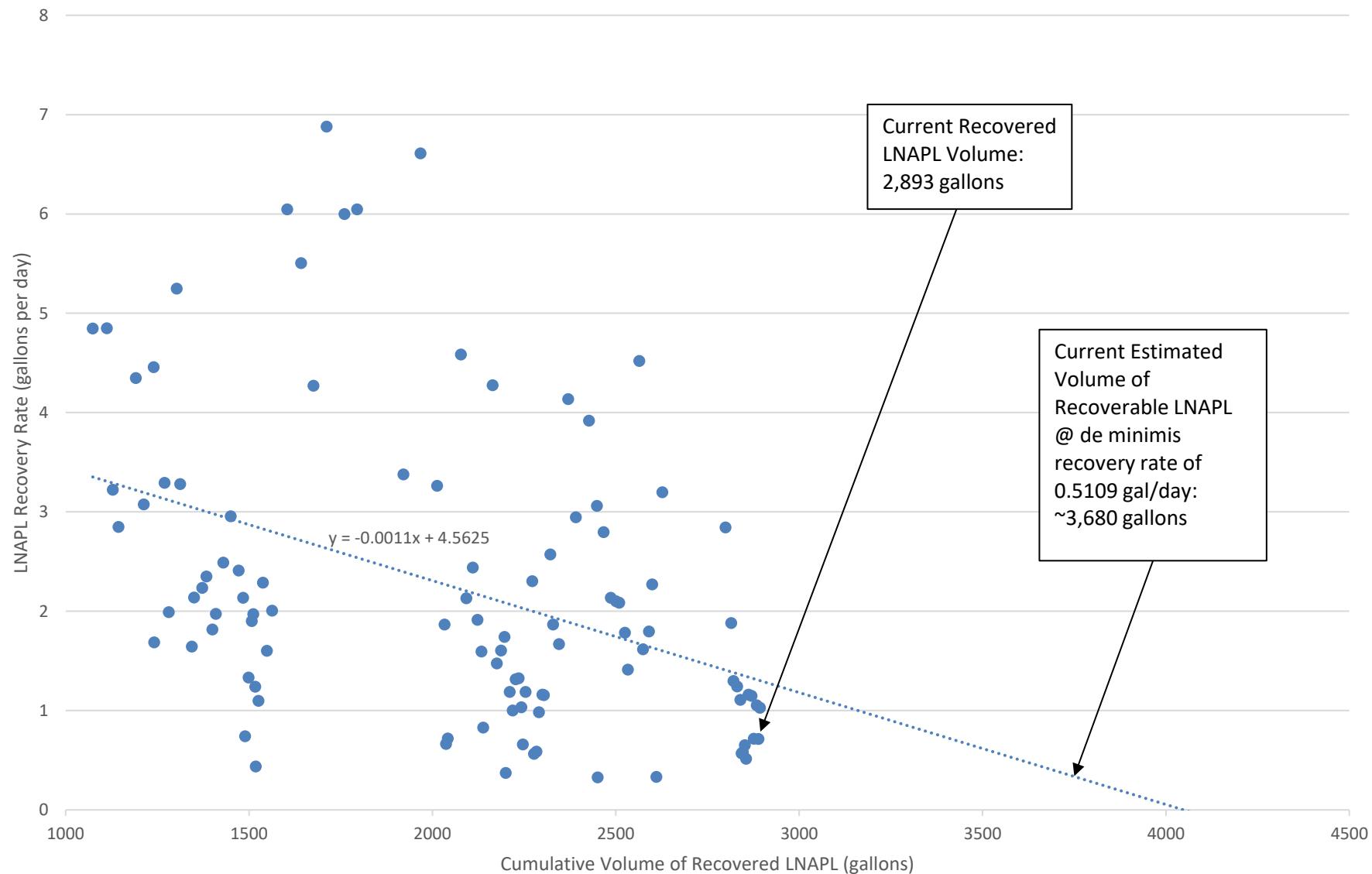
All calculations performed pursuant to the methodology detailed in ASTM E2856-13

^aThe maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.^bRepresents the geometric mean of the stabilized recovery rates/LNAPL transmissivity estimates (i.e., excludes initial elevated values that would not represent potential long-term recovery rates).

AW-49: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time

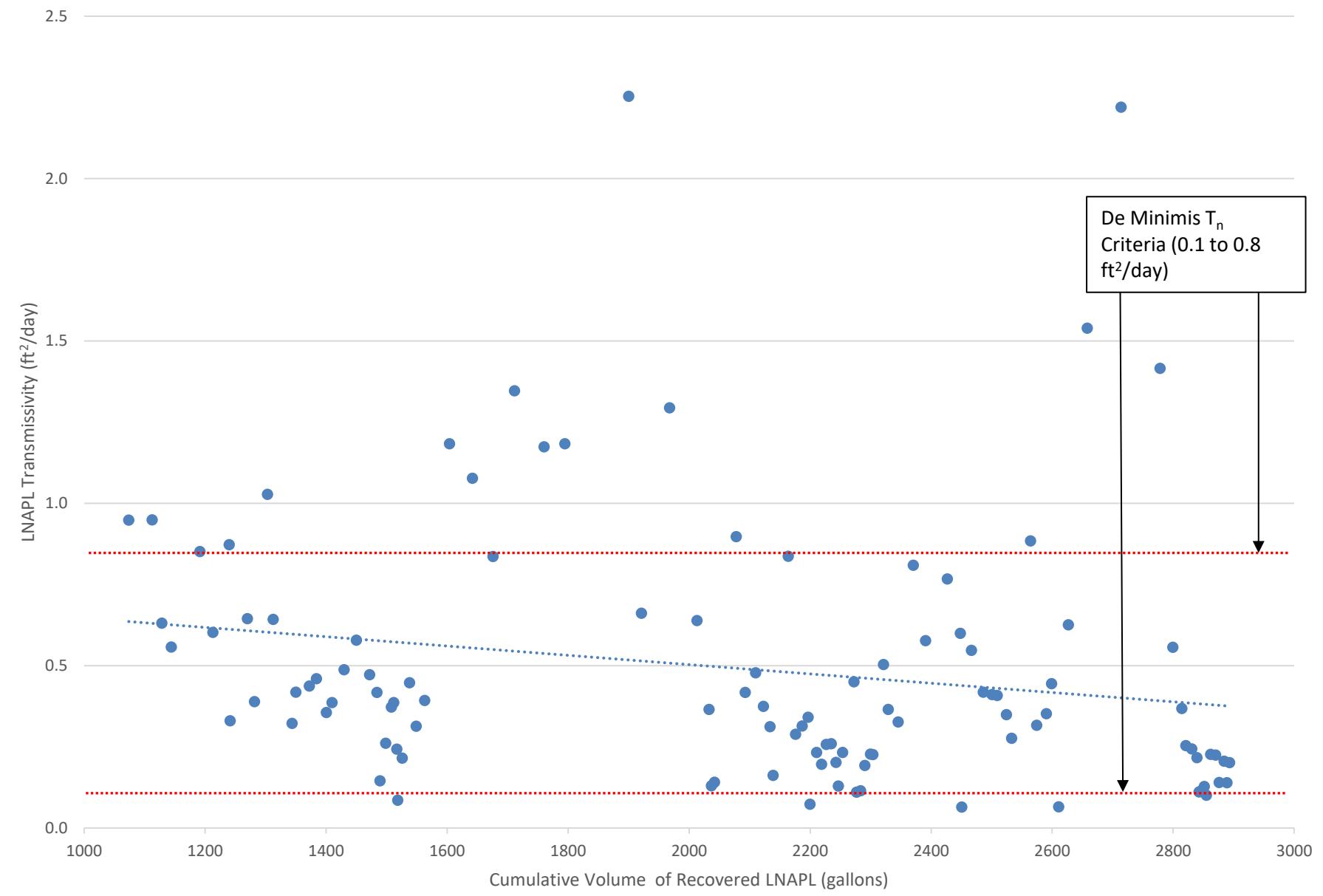


AW-49: LNAPL Volumetric Recovery Decline Curve Analysis



Note: Only data following stabilization of LNAPL recovery and during intervals without skimmer operation issues are depicted and were utilized to develop the recovery decline curve analysis

AW-49: LNAPL Transmissivity Decline Curve Analysis



Appendix A

AW-56 LNAPL Skimming Test Results

IMTT Savannah North Terminal

Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-56 Short term test	Equilibrium							8.74	14.19	5.45	--	0.80		--	--	--
	8/25/2016 11:45	--		--	--	--		9.12	15.13	6.01	--		--	--	--	--
	8/31/2016 10:40	5.95	5.95	5.95	36.1	36.1	36.1	10.01	13.02	3.01	1.27		0.80	6.1	0.81	0.7
	9/7/2016 11:45	7.05	7.05	13.00	67.3	31.2	67.3	10.90	13.40	2.50	2.16		0.80	4.4	0.59	0.5
	9/14/2016 17:30	7.24	7.24	20.24	117.3	50.0	117.3	10.99	14.55	3.56	2.25		0.80	6.9	0.92	0.8
	9/15/2016 7:45	0.59	0.59	20.83	126.8	9.5	126.8	10.98	11.10	0.12	2.24		0.80	16.0	2.14	2.0
	9/21/2016 14:40	6.29	6.29	27.12	131.3	4.50	131.3	--	--	--	--		--	--	--	--
AW-56 Long-term Test	2/23/2017 9:45	--	--	--	--	--		10.80	15.85	5.05	--		--	--	--	--
	2/23/2017 11:42	0.08	0.05	0.05	38.1	38.1	169.4	12.05	13.33	1.28	3.31		0.80	744.3	99.50	91.5
	2/23/2017 13:08	0.06	0.06	0.11	40.5	2.4	171.8	12.30	12.65	0.35	3.56		0.80	40.2	5.37	4.9
	3/3/2017 9:40	7.86	7.86	7.97	74.4	33.9	205.8	12.72	13.00	0.28	3.98		0.80	4.3	0.58	0.5
	SHUTDOWN DUE TO TANK FAILURE															
	3/7/2017 14:00	--	--	--	--	--	220.8	12.20	16.95	4.75	--		--	--	--	--
	3/10/2017 9:40	2.82	2.82	2.82	11.5	11.5	232.3	11.34	14.90	3.56	2.60		0.80	4.1	0.54	0.5
	3/16/2017 10:35	6.04	6.04	8.86	17.7	6.2	238.4	11.86	16.90	5.04	3.12		0.80	1.0	0.14	0.1
	3/23/2017 9:58	6.97	6.07	14.93	51.2	33.5	272.0	11.77	13.61	1.84	3.03		0.80	5.5	0.74	0.7
	3/31/2017 7:50	7.91	7.65	22.58	59.4	8.2	280.2	12.75	13.00	0.25	4.01		0.80	1.1	0.14	0.1
	4/3/2017 9:38	3.07	3.09	25.67	72.4	13.0	293.2	12.72	12.90	0.18	3.98		0.80	4.2	0.56	0.5
	4/13/2017 11:20	10.07	10.11	35.78	106.2	33.8	327.0	11.76	11.91	0.15	3.02		0.80	3.3	0.45	0.4
	4/18/2017 10:47	4.98	5.00	40.78	119.9	13.7	340.7	12.25	15.25	3.00	3.51		0.80	2.7	0.37	0.3
	4/27/2017 10:41	9.00	9.03	49.80	130.9	11.0	351.7	11.10	14.35	3.25	2.36		0.80	1.2	0.16	0.1
	5/2/2017 12:58	5.10	5.11	54.92	155.2	24.3	376.0	12.44	12.66	0.22	3.70		0.80	4.8	0.64	0.6
	5/10/2017 10:30	7.90	7.65	62.56	179.2	24.0	400.0	12.00	12.46	0.46	3.26		0.80	3.1	0.42	0.4
	5/17/2017 7:32	6.88	6.90	69.47	208.2	29.0	429.0	12.83	13.28	0.45	4.09		0.80	4.2	0.56	0.5
	5/26/2017 10:42	9.13	9.16	78.63	244.2	36.0	465.0	11.95	11.98	0.03	3.21		0.80	3.9	0.53	0.5
	6/1/2017 7:45	5.88	5.90	84.53	263.2	19.0	484.0	12.31	12.59	0.28	3.57		0.80	3.2	0.43	0.4
	6/8/2017 11:15	7.15	6.89	91.42	271.7	8.5	492.5	11.13	12.86	1.73	2.39		0.80	1.2	0.16	0.2
	6/15/2017 10:29	6.97	6.98	98.39	305.2	33.5	526.0	12.51	12.72	0.21	3.77		0.80	4.8	0.64	0.6
	6/20/2017 9:36	4.96	4.88	103.28	320.2	15.0	541.0	12.27	12.51	0.24	3.53		0.80	3.1	0.41	0.4
	6/22/2017 10:57	2.06	2.04	105.31	327.2	7.0	548.0	11.86	12.00	0.14	3.12		0.80	3.4	0.46	0.4
	6/26/2017 12:30	4.06	4.08	109.39	341.2	14.0	562.0	11.55	11.60	0.05	2.81		0.80	3.4	0.46	0.4
	6/30/2017 12:28	4.00	3.92	113.31	360.2	19.0	581.0	12.02	12.11	0.09	3.28		0.80	4.9	0.65	0.6
	7/7/2017 8:03	6.82	6.84	120.14	383.2	23.0	604.0	11.65	11.84	0.19	2.91		0.80	3.4	0.45	0.4
	7/12/2017 14:36	5.27	5.19	125.34	407.8	24.6	628.6	11.65	11.74	0.09	2.91		0.80	4.7	0.63	0.6
	7/19/2017 11:45	6.88	6.90	132.24	449.2	41.4	670.0	12.51	12.68	0.17	3.77		0.80	6.0	0.80	0.7
	7/26/2017 11:24	6.99	6.91	139.15	466.5	17.3	687.3	11.30	11.43	0.13	2.56		0.80	2.5	0.33	0.3
	8/2/2017 12:06	7.03	0.01	139.16	469.5	3.0	690.3	10.91	17.11	6.20	2.17		0.80	326.0	43.58	39.9
	8/9/2017 10:00	6.91	6.83	145.99	501.5	32.0	722.3	11.11	11.22	0.11	2.37		0.80	4.7	0.63	0.6
	8/17/2017 8:26	7.93	7.87	153.85	531.5	30.0	752.3	11.13	11.25	0.12	2.39		0.80	3.8	0.51	0.5
	8/22/2017 12:25	5.17	5.09	158.94	552.0	20.5	772.8	10.80	10.98	0.18	2.06		0.80	4.0	0.54	0.5
	8/30/2017 17:38	8.22	8.24	167.18	576.5	24.5	797.3	10.74	10.91	0.17	2.00		0.80	3.0	0.40	0.4
	9/6/2017 12:47	6.80	3.44	170.62	587.5	11.0	808.3	10.24	15.51	5.27	1.50		0.80	3.2	0.43	0.4

Appendix A

AW-56 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

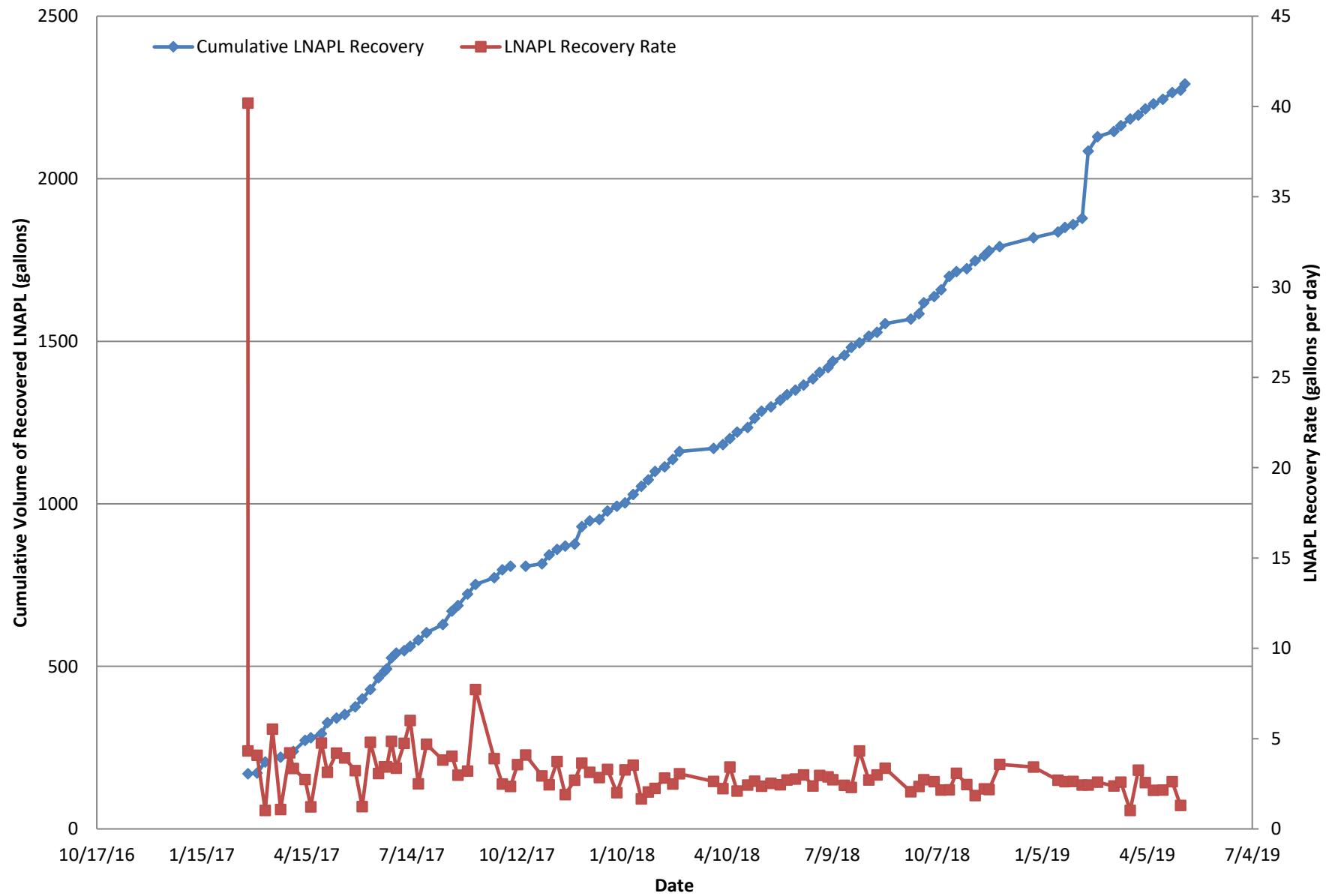
Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet ftoc)	Depth to Water (feet ftoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-56 Long-Term	9/21/2017 12:03	--	--	--	--	--	808.3	9.42	15.12	5.70	--			--	--	--
	9/22/2017 11:50	0.99	0.91	171.53	7.0	7.0	815.3	10.82	11.06	0.24	2.08		0.80	7.7	1.03	0.9
	9/29/2017 13:24	7.07	7.07	178.59	34.5	27.5	842.8	11.26	11.45	0.19	2.52		0.80	3.9	0.52	0.5
	10/6/2017 12:35	6.97	6.89	185.49	51.6	17.1	859.9	10.52	10.72	0.20	1.78		0.80	2.5	0.33	0.3
	10/12/2017 11:03	5.94	4.26	189.75	61.6	10.0	869.9	11.05	16.60	5.55	2.31		0.80	2.3	0.31	0.3
	10/19/2017 11:15	7.01	1.82	191.57	68.1	6.5	876.4	9.65	14.55	4.90	0.91		0.80	3.6	0.48	0.4
	11/2/2017 8:41	13.89	13.08	204.66	121.6	53.5	929.9	11.30	11.36	0.06	2.56		0.80	4.1	0.55	0.5
	11/8/2017 12:02	6.14	6.14	210.80	139.6	18.0	947.9	11.22	11.51	0.29	2.48		0.80	2.9	0.39	0.4
	11/15/2017 11:17	6.97	1.64	212.44	143.6	4.0	951.9	10.95	15.42	4.47	2.21		0.80	2.4	0.33	0.3
	11/22/2017 10:11	6.95	6.95	219.39	169.6	26.0	977.9	11.80	11.95	0.15	3.06		0.80	3.7	0.50	0.5
	11/30/2017 10:55	8.03	7.91	227.30	184.6	15.0	992.9	12.30	12.52	0.22	3.56		0.80	1.9	0.25	0.2
	12/6/2017 11:28	6.02	3.86	231.16	195.0	10.4	1003.3	10.65	14.32	3.67	1.91		0.80	2.7	0.36	0.3
	12/13/2017 10:32	6.96	6.96	238.12	220.3	25.3	1028.6	12.54	12.76	0.22	3.80		0.80	3.6	0.49	0.4
	12/21/2017 12:38	8.09	7.96	246.08	245.3	25.0	1053.6	11.63	11.73	0.10	2.89		0.80	3.1	0.42	0.4
	12/28/2017 13:15	7.03	7.03	253.10	265.3	20.0	1073.6	12.40	12.65	0.25	3.66		0.80	2.8	0.38	0.3
	1/5/2018 13:37	8.02	7.89	260.99	291.3	26.0	1099.6	11.61	11.69	0.08	2.87		0.80	3.3	0.44	0.4
	1/12/2018 12:46	6.96	6.96	267.96	305.3	14.0	1113.6	12.71	12.94	0.23	3.97		0.80	2.0	0.27	0.2
	1/19/2018 14:15	7.06	7.05	275.01	328.3	23.0	1136.6	11.80	11.98	0.18	3.06		0.80	3.3	0.44	0.4
	1/26/2018 11:05	6.87	6.78	281.79	352.3	24.0	1160.6	12.97	13.65	0.68	4.23		0.80	3.5	0.47	0.4
	2/1/2018 11:48	6.03	6.03	287.82	362.3	10.0	1170.6	11.54	11.63	0.09	2.80		0.80	1.7	0.22	0.2
	2/7/2018 8:16	5.85	5.85	293.67	374.3	12.0	1182.6	12.82	13.14	0.32	4.08		0.80	2.1	0.27	0.3
	2/15/2018 10:45	8.10	8.02	301.69	392.3	18.0	1200.6	11.80	12.01	0.21	3.06		0.80	2.2	0.30	0.3
	2/22/2018 13:20	7.11	7.09	308.78	412.3	20.0	1220.6	11.92	12.10	0.18	3.18		0.80	2.8	0.38	0.3
	2/28/2018 8:02	5.78	5.64	314.42	426.3	14.0	1234.6	11.18	11.39	0.21	2.44		0.80	2.5	0.33	0.3
	3/8/2018 8:27	8.02	8.02	322.44	434.3	8.0	1242.6	11.89	16.41	4.52	3.15		0.80	1.0	0.13	0.1
	3/15/2018 12:30	7.17	7.15	329.58	434.3	0.0	1242.6	11.66	15.22	3.56	2.92		0.80	0.0	0.00	0.0
	3/22/2018 10:25	6.91	0.00	329.59	434.3	0.0	1242.6	12.12	16.27	4.15	3.38		0.80	0.0	0.00	0.0
	3/29/2018 10:50	7.02	6.87	336.46	455.3	21.0	1263.6	11.60	11.92	0.32	2.86		0.80	3.1	0.41	0.4
	4/6/2018 10:48	8.00	8.00	344.46	476.3	21.0	1284.6	12.61	12.85	0.24	3.87		0.80	2.6	0.35	0.3
	4/12/2018 11:55	6.05	6.05	350.50	489.8	13.5	1298.1	12.60	12.82	0.22	3.86		0.80	2.2	0.30	0.3
	4/18/2018 14:15	6.10	6.10	356.60	510.7	20.9	1319.0	12.11	12.23	0.12	3.37		0.80	3.4	0.46	0.4
	4/27/2018 14:15	9.00	7.97	364.57	527.4	16.7	1335.7	12.35	13.00	0.65	3.61		0.80	2.1	0.28	0.3
	5/3/2018 15:15	6.04	5.96	370.53	541.9	14.5	1350.2	12.16	12.35	0.19	3.42		0.80	2.4	0.33	0.3
	5/9/2018 11:22	5.84	5.84	376.36	557.3	15.4	1365.6	12.81	13.07	0.26	4.07		0.80	2.6	0.35	0.3
	5/17/2018 12:34	8.05	8.05	384.41	576.3	19.0	1384.6	11.60	11.86	0.26	2.86		0.80	2.4	0.32	0.3
	5/25/2018 13:26	8.04	7.91	392.32	596.3	20.0	1404.6	12.74	12.99	0.25	4.00		0.80	2.5	0.34	0.3
	5/31/2018 9:38	5.84	5.84	398.16	610.6	14.3	1418.9	11.61	11.75	0.14	2.87		0.80	2.4	0.33	0.3
	6/7/2018 13:00	7.14	7.14	405.30	629.9	19.3	1438.2	11.88	12.12	0.24	3.14		0.80	2.7	0.36	0.3
	6/14/2018 11:20	6.93	6.80	412.10	648.7	18.8	1457.0	11.09	11.31	0.22	2.35		0.80	2.8	0.37	0.3
	6/22/2018 13:37	8.10	8.10	420.20	672.9	24.2	1481.2	12.26	12.68	0.42	3.52		0.80	3.0	0.40	0.4
	6/28/2018 9:53	5.84	5.84	426.04	686.8	13.9	1495.1	11.28	11.39	0.11	2.54		0.80	2.4	0.32	0.3
	7/5/2018 10:59</															

Appendix A

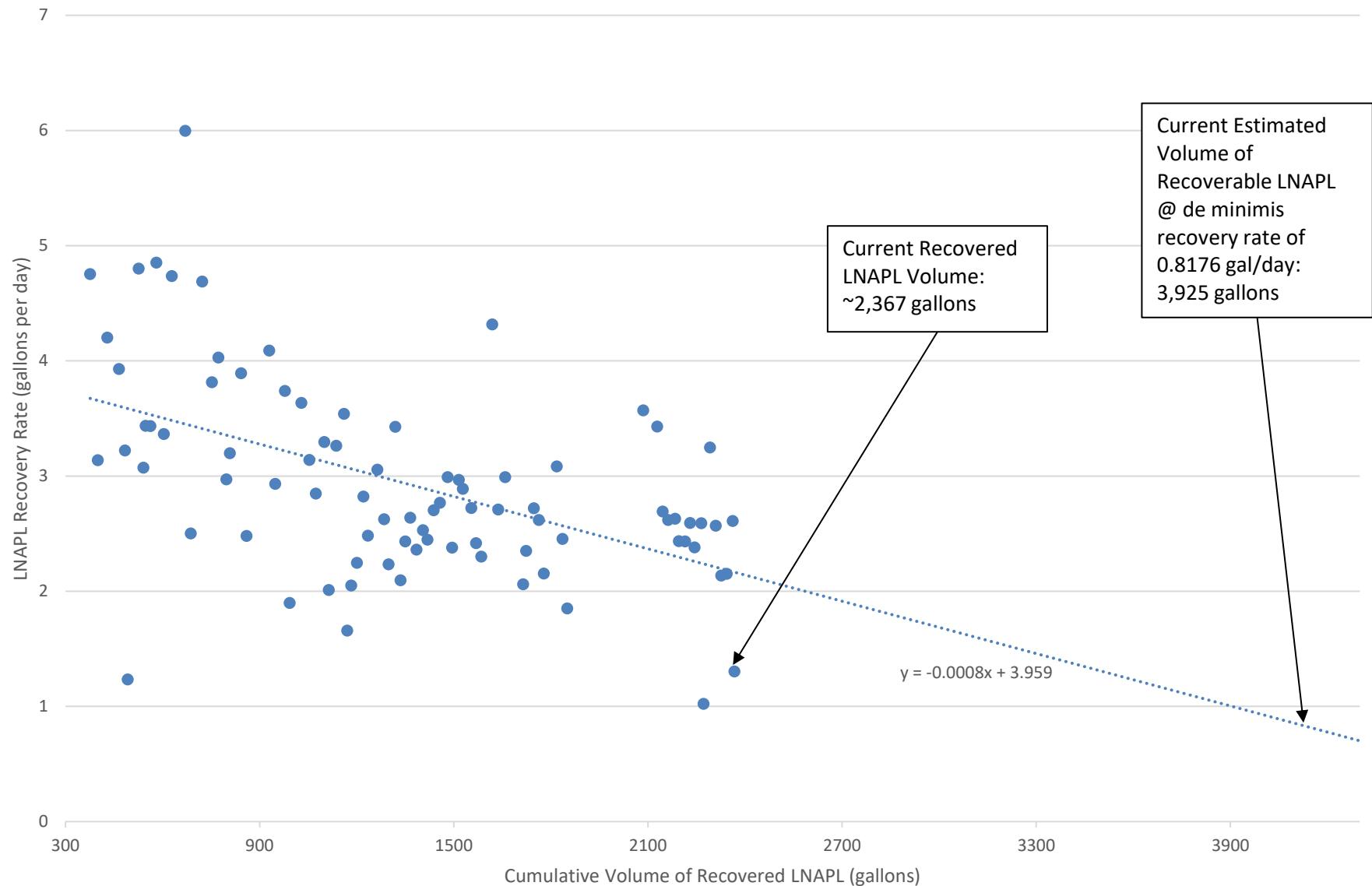
AW-56 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet ftoc)	Depth to Water (feet ftoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-56 Long-Term Test	8/1/2018 10:05	6.96	6.96	459.79	776.3	16.0	1584.6	11.48	13.48	2.00	2.74		0.80	2.3	0.31	0.3
	8/9/2018 10:12	8.00	7.88	467.67	810.3	34.0	1618.6	13.33	13.51	0.18	4.59		0.80	4.3	0.58	0.5
	8/16/2018 10:34	7.02	7.02	474.68	829.3	19.0	1637.6	12.09	12.31	0.22	3.35		0.80	2.7	0.36	0.3
	8/23/2018 11:08	7.02	7.02	481.71	850.3	21.0	1658.6	11.62	11.73	0.11	2.88		0.80	3.0	0.40	0.4
	8/30/2018 10:48	6.99	6.85	488.56	851.3	1.0	1659.6	11.11	14.82	3.71	2.37		0.80	0.1	0.02	0.0
	9/5/2018 10:26	5.98	5.98	494.55	861.3	10.0	1669.6	11.63	14.80	3.17	2.89		0.80	1.7	0.22	0.2
	9/14/2018 13:08	9.11	8.99	503.53	891.5	30.2	1699.8	11.03	11.19	0.16	2.29		0.80	3.4	0.45	0.4
	9/21/2018 11:40	6.94	6.94	510.47	905.8	14.3	1714.1	12.04	12.31	0.27	3.30		0.80	2.1	0.28	0.3
	9/25/2018 12:38	4.04	4.04	514.51	915.3	9.5	1723.6	11.25	11.36	0.11	2.51		0.80	2.4	0.31	0.3
	10/4/2018 11:30	8.95	8.83	523.34	939.3	24.0	1747.6	12.31	12.65	0.34	3.57		0.80	2.7	0.36	0.3
	10/10/2018 10:28	5.96	5.96	529.29	954.9	15.6	1763.2	10.84	10.89	0.05	2.10		0.80	2.6	0.35	0.3
	10/17/2018 8:32	6.92	6.92	536.21	969.8	14.9	1778.1	11.45	11.57	0.12	2.71		0.80	2.2	0.29	0.3
	10/23/2018 12:14	6.15	6.02	542.23	982.8	13.0	1791.1	11.01	13.99	2.98	2.27		0.80	2.2	0.29	0.3
	11/1/2018 10:16	8.92	8.92	551.15	1010.3	27.5	1818.6	12.50	12.78	0.28	3.76		0.80	3.1	0.41	0.4
	11/8/2018 14:33	7.18	7.09	558.24	1027.7	17.4	1836.0	12.05	12.34	0.29	3.31		0.80	2.5	0.33	0.3
	11/16/2018 11:55	7.89	7.89	566.13	1042.3	14.6	1850.6	11.87	13.20	1.33	3.13		0.80	1.9	0.25	0.2
	11/20/2018 9:56	3.92	3.88	570.01	1050.9	8.6	1859.2	10.70	14.65	3.95	1.96		0.80	2.2	0.30	0.3
	11/29/2018 11:10	9.05	8.93	578.94	1070.3	19.4	1878.6	11.13	16.45	5.32	2.39		0.80	2.2	0.29	0.3
	12/5/2018 10:05	5.95	3.30	582.24	1097.3	27.0	1905.6	11.68	11.84	0.16	2.94		0.80	8.2	1.09	1.0
	12/10/2018 10:00	5.00	5.00	587.23	1122.3	25.0	1930.6	11.46	11.79	0.33	2.72		0.80	5.0	0.67	0.6
	12/14/2018 10:10	4.01	3.99	591.22	1174.2	51.9	1982.5	12.32	12.57	0.25	3.58		0.80	13.0	1.74	1.6
	12/19/2018 9:48	4.98	4.84	596.06	1244.2	70.0	2052.5	11.44	11.89	0.45	2.70		0.80	14.5	1.93	1.8
	12/28/2018 13:38	9.16	9.16	605.22	1276.9	32.7	2085.2	11.31	11.35	0.04	2.57		0.80	3.6	0.48	0.4
	1/3/2019 10:34	5.87	4.95	610.17	1283.1	6.2	2091.4	11.53	14.75	3.22	2.79		0.80	1.3	0.17	0.2
	1/7/2019 10:32	4.00	0.00	610.17	1283.1	0.0	2091.4	11.14	15.10	3.96	2.40		0.80	--	--	--
	1/18/2019 12:52	11.10	10.97	621.14	1320.7	37.6	2129.0	12.53	12.72	0.19	3.79		0.80	3.4	0.46	0.4
	1/24/2019 14:12	6.06	6.06	627.19	1337.0	16.3	2145.3	11.52	11.62	0.10	2.78		0.80	2.7	0.36	0.3
	1/31/2019 10:58	6.87	6.72	633.91	1354.6	17.6	2162.9	12.93	13.22	0.29	4.19		0.80	2.6	0.35	0.3
	2/8/2019 9:40	7.95	7.95	641.86	1375.5	20.9	2183.8	12.21	12.38	0.17	3.47		0.80	2.6	0.35	0.3
	2/13/2019 9:57	5.01	5.01	646.87	1387.7	12.2	2196.0	12.92	13.15	0.23	4.18		0.80	2.4	0.33	0.3
	2/21/2019 9:58	8.00	7.86	654.73	1406.8	19.1	2215.1	11.87	12.02	0.15	3.13		0.80	2.4	0.33	0.3
	3/1/2019 10:50	8.04	8.04	662.76	1406.8	0.0	2215.1	12.28	16.30	4.02	3.54		0.80	0.0	0.00	0.0
	3/7/2019 10:23	5.98	5.98	668.75	1422.3	15.5	2230.6	11.97	12.14	0.17	3.23		0.80	2.6	0.35	0.3
	3/13/2019 10:54	6.02	5.84	674.58	1436.2	13.9	2244.5	12.66	12.78	0.12	3.92		0.80	2.4	0.32	0.3
	3/21/2019 10:38	7.99	7.99	682.57	1456.9	20.7	2265.2	11.71	11.88	0.17	2.97		0.80	2.6	0.35	0.3
	3/28/2019 10:17	6.99	6.84	689.42	1463.9	7.0	2272.2	12.91	13.03	0.12	4.17		0.80	1.0	0.14	0.1
	4/3/2019 10:20	6.00	6.00	695.42	1483.4	19.5	2291.7	12.20	12.41	0.21	3.46		0.80	3.2	0.43	0.4
	4/10/2019 10:27	7.00	7.00	702.42	1501.4	18.0	2309.7	12.85	12.94	0.09	4.11		0.80	2.6	0.34	0.3
	4/18/2019 11:37	8.05	7.91	710.33	1518.3	16.9	2326.6	12.09	12.20	0.11	3.35		0.80	2.1	0.29	0.3
	4/26/2019 11:32	8.00	8.00	718.33	1535.5	17.2	2343.8	12.74	12.82	0.08	4.00		0.80	2.2	0.29	0.3
	5/3/2019 12:44	7.05	7.05	725.38	1553.9	18.4	2362.2	12.43	12.53	0.10</						

AW-56: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time

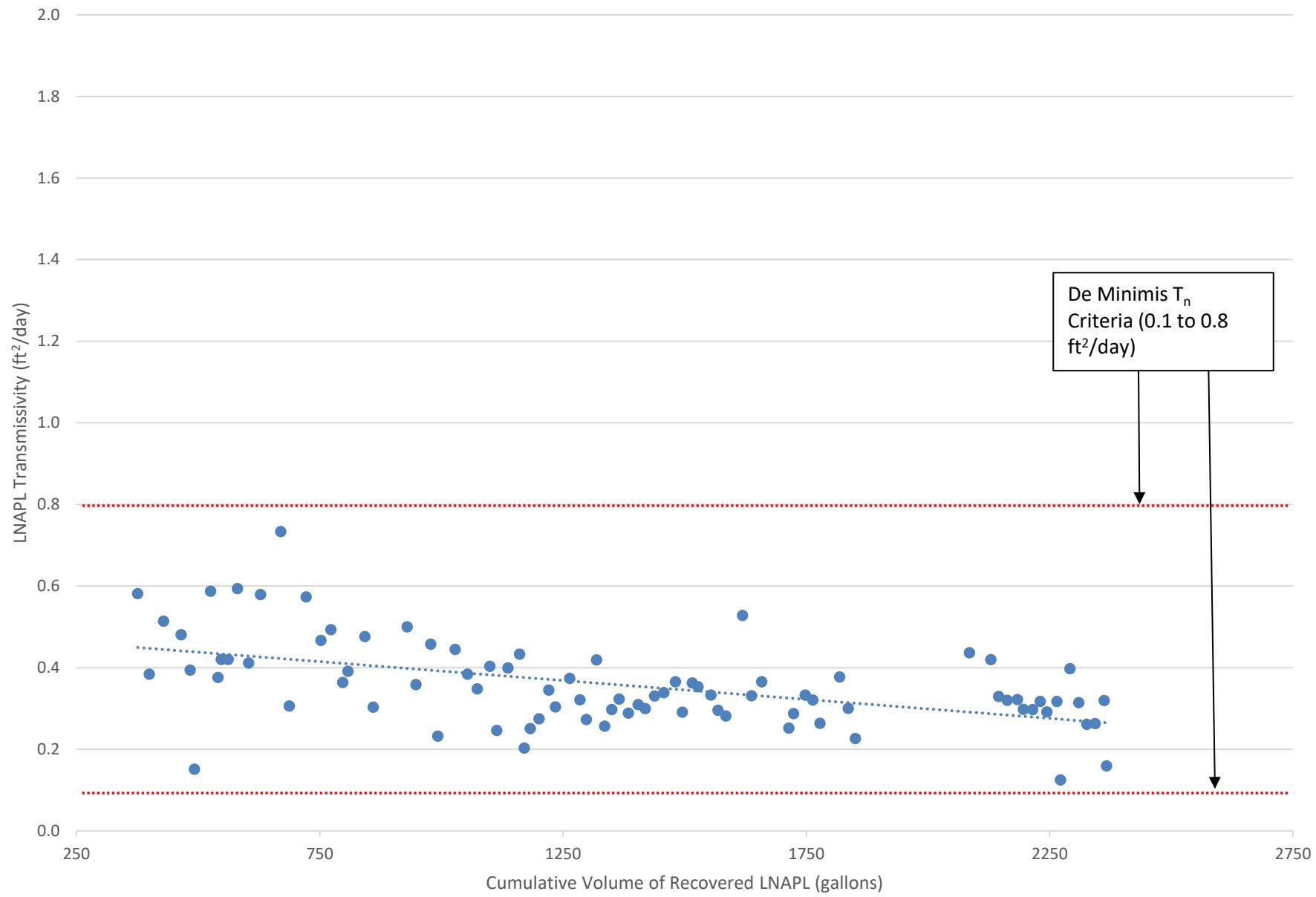


AW-56: LNAPL Volumetric Recovery Decline Curve Analysis



Note: Only data following stabilization of LNAPL recovery and during intervals without skimmer operation issues are depicted and were utilized to develop the recovery decline curve analysis

AW-56: LNAPL Transmissivity Decline Curve Analysis



Appendix A

AW-82 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
Equilibrium								9.58	12.46	2.88	--	0.42		--	--	--
AW-82 Short term test	6/28/2016 11:00	--		--	--	--		9.11	12.62	3.51	--		--	--	--	--
	6/28/2016 14:15	0.14	0.13	0.13	4.1	4.1	4.1	--	--	--		0.42	30.4	4.07	7.1	
	7/1/2016 9:25	2.80	2.78	2.92	6.0	1.9	6.0	8.89	12.33	3.44	-0.69		0.42	0.7	0.09	0.2
	7/7/2016 13:10	6.16	6.16	9.08	12.3	6.3	12.3	9.27	12.42	3.15	-0.31		0.42	1.0	0.14	0.2
	7/11/2016 12:00	3.95	2.24	11.31	22.7	10.4	22.7	9.66	13.36	3.70	0.08		0.42	4.7	0.62	1.1
	7/12/2016 9:35	0.90	0.65	11.96	26.0	3.3	26.0	9.63	12.65	3.02	0.05		0.42	5.1	0.68	1.2
	7/12/2016 12:25	0.12	0.12	12.08	26.4	0.4	26.4	9.82	12.74	2.92	0.24		0.42	3.4	0.45	0.8
	7/19/2016 12:00	6.98	6.98	19.06	49.7	23.3	49.7	9.69	12.56	2.87	0.11		0.42	3.3	0.45	0.8
	7/21/2016 13:45	2.07	2.02	21.08	57.8	8.1	57.8	9.53	12.85	3.32	-0.05		0.42	4.0	0.53	0.9
	7/27/2016 11:25	5.90	5.84	26.93	79.1	21.3	79.1	10.00	13.00	3.00	0.42		0.42	3.6	0.49	0.8
END OF TEST INTERVAL																
AW-82 Long term skimming	11/16/2016 10:05	--	--	--	--	--		9.04	11.81	2.77	--		--	--	--	--
	11/22/2016 11:20	6.05	5.94	5.94	16.2	16.2	95.3	10.82	10.96	0.14	1.24		0.42	2.7	0.36	0.6
	11/29/2016 11:55	7.02	7.02	12.96	42.1	25.9	121.2	10.29	11.80	1.51	0.71		0.42	3.7	0.49	0.9
	12/5/2016 11:55	6.00	5.77	18.73	80.9	38.8	160.0	10.56	11.30	0.74	0.98		0.42	6.7	0.90	1.6
	12/7/2016 12:10	2.01	2.00	20.73	89.0	8.1	168.1	10.54	10.92	0.38	0.96		0.42	4.0	0.54	0.9
	12/14/2016 9:10	6.88	6.82	27.55	104.3	15.4	183.4	10.45	10.58	0.13	0.87		0.42	2.3	0.30	0.5
	12/21/2016 8:48	6.98	6.94	34.50	114.1	9.7	193.2	10.45	11.40	0.95	0.87		0.42	1.4	0.19	0.3
	12/27/2016 11:40	6.12	6.00	40.50	125.3	11.2	204.4	10.37	10.56	0.19	0.79		0.42	1.9	0.25	0.4
	1/4/2017 10:46	7.96	7.92	48.41	150.1	24.8	229.2	11.14	11.56	0.42	1.56		0.42	3.1	0.42	0.7
	1/9/2017 11:04	5.01	4.80	53.21	165.3	15.2	244.4	10.87	10.96	0.09	1.29		0.42	3.2	0.42	0.7
	1/19/2017 9:45	9.95	9.81	63.02	190.7	25.4	269.8	11.10	11.28	0.18	1.52		0.42	2.6	0.35	0.6
END OF TEST INTERVAL																
4/27/2017 11:50	--	--	0.00	--	--	--	9.97	13.02	3.05	--		--	--	--	--	
5/2/2017 13:01	5.05	5.05	5.05	119.0	119.0	388.8	11.23	11.38	0.15	1.65		0.42	23.6	3.15	5.5	
5/10/2017 10:17	7.89	7.89	12.94	194.0	75.0	463.8	10.85	12.26	1.41	1.27		0.42	9.5	1.27	2.2	
5/17/2017 7:24	6.88	6.88	19.82	246.0	52.0	515.8	10.93	11.09	0.16	1.35		0.42	7.6	1.01	1.8	
5/26/2017 10:34	9.13	9.13	28.95	306.0	60.0	575.8	10.96	11.15	0.19	1.38		0.42	6.6	0.88	1.5	
6/1/2017 7:34	5.88	5.88	34.82	327.0	21.0	596.8	10.61	10.80	0.19	1.03		0.42	3.6	0.48	0.8	
6/8/2017 11:05	7.15	6.88	41.70	352.0	25.0	621.8	10.31	10.45	0.14	0.73		0.42	3.6	0.49	0.8	
6/15/2017 10:20	6.97	6.97	48.67	367.9	15.9	637.7	10.81	10.98	0.17	1.23		0.42	2.3	0.30	0.5	
6/22/2017 11:00	7.03	7.03	55.70	392.9	25.0	662.7	10.48	10.63	0.15	0.90		0.42	3.6	0.48	0.8	
6/26/2017 12:38	4.07	4.07	59.77	406.0	13.1	675.8	10.51	10.66	0.15	0.93		0.42	3.2	0.43	0.8	
6/30/2017 12:34	4.00	4.00	63.76	459.5	53.5	729.3	10.56	11.45	0.89	0.98		0.42	13.4	1.79	3.1	
7/7/2017 7:55	6.81	5.40	69.17	469.0	9.5	738.8	10.00	10.90	0.90	0.42		0.42	1.8	0.23	0.4	
7/12/2017 15:11	5.30	5.30	74.47	486.8	17.8	756.6	10.08	10.16	0.08	0.50		0.42	3.4	0.45	0.8	
7/19/2017 11:52	6.86	6.59	81.06	497.0	10.2	766.8	10.15	10.24	0.09	0.57		0.42	1.5	0.21	0.4	
7/26/2017 11:35	6.99	6.99	88.05	540.9	43.9	810.7	10.04	10.06	0.02	0.46		0.42	6.3	0.84	1.5	
8/2/2017 12:26	7.04	7.04	95.08	549.0	8.1	818.8	9.70	9.91	0.21	0.12		0.42	1.2	0.15	0.3	
8/9/2017 10:03	6.90	6.90	101.98	552.0	3.0	821.8	9.75	9.90	0.15	0.17		0.42	0.4	0.06	0.1	
8/17/2017 8:21	7.93	7.93	109.91	554.0	2.0	823.8	9.42	9.45	0.03	-0.16		0.42	0.3	0.03	0.1	
8/22/2017 12:15	5.16	5.16	115.07	563.0	9.0	832.8	9.48	9.58	0.10	-0.10		0.42	1.7	0.23	0.4</	

Appendix A

AW-82 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-82 Long term test	9/21/2017 11:28	--	--	--	--	--	843.8	8.59	10.61	2.02	--			--	--	--
	9/22/2017 8:51	0.89	0.89	130.79	12.3	12.3	856.1	9.35	9.41	0.06	-0.23		0.42	13.8	1.85	3.2
	9/29/2017 12:35	7.16	7.16	137.95	22.7	10.4	866.5	9.54	9.70	0.16	-0.04		0.42	1.5	0.19	0.3
	10/6/2017 12:23	6.99	0.74	138.69	46.4	23.7	890.2	9.05	10.36	1.31	-0.53		0.42	32.0	4.27	7.5
	10/12/2017 10:45	5.93	5.93	144.62	56.4	10.0	900.2	9.75	9.92	0.17	0.17		0.42	1.7	0.23	0.4
	10/19/2017 11:30	7.03	7.03	151.65	58.5	2.1	902.3	9.27	9.39	0.12	-0.31		0.42	0.3	0.04	0.1
	11/2/2017 8:34	13.88	8.91	160.56	67.7	9.2	911.5	10.20	10.44	0.24	0.62		0.42	1.0	0.14	0.2
	11/8/2017 11:50	6.14	6.14	166.69	67.7	0.0	911.5	10.06	10.29	0.23	0.48		0.42	0.0	0.00	0.0
	11/15/2017 11:01	6.97	6.97	173.66	67.7	0.0	911.5	9.87	10.50	0.63	0.29		0.42	0.0	0.00	0.0
	11/22/2017 10:09	6.96	6.96	180.62	77.7	10.0	921.5	10.53	10.79	0.26	0.95		0.42	1.4	0.19	0.3
AW-82 Long term test	11/30/2017 11:40	8.06	7.84	188.46	87.7	10.0	931.5	10.41	10.68	0.27	0.83		0.42	1.3	0.17	0.3
	12/6/2017 13:00	6.06	6.06	194.52	97.5	9.8	941.3	10.13	10.38	0.25	0.55		0.42	1.6	0.22	0.4
	12/13/2017 10:10	6.88	3.79	198.31	104.3	6.8	948.1	10.22	12.18	1.96	0.64		0.42	1.8	0.24	0.4
	12/21/2017 12:03	8.08	8.08	206.39	116.7	12.4	960.5	10.31	12.17	1.86	0.73		0.42	1.5	0.21	0.4
	12/28/2017 13:35	7.06	7.06	213.45	124.5	7.8	968.3	10.97	11.20	0.23	1.39		0.42	1.1	0.15	0.3
	1/5/2018 13:18	7.99	7.75	221.21	124.5	0.0	968.3	10.74	10.98	0.24	1.16		0.42	0.0	0.00	0.0
	1/12/2018 13:35	7.01	7.00	228.21	160.0	35.5	1003.8	10.76	10.98	0.22	1.18		0.42	5.1	0.68	1.2
	1/19/2018 12:44	6.96	6.96	235.17	165.5	5.5	1009.3	10.65	10.90	0.25	1.07		0.42	0.8	0.11	0.2
	1/26/2018 10:57	6.93	6.93	242.10	176.7	11.2	1020.5	11.30	11.36	0.06	1.72		0.42	1.6	0.22	0.4
	2/1/2018 11:28	6.02	6.02	248.12	182.9	6.2	1026.7	10.66	10.90	0.24	1.08		0.42	1.0	0.14	0.2
AW-82 Long term test	2/7/2018 8:07	5.86	5.62	253.74	196.9	14.0	1040.7	10.83	11.13	0.30	1.25		0.42	2.5	0.33	0.6
	2/15/2018 11:35	8.14	8.14	261.88	227.9	31.0	1071.7	10.23	10.64	0.41	0.65		0.42	3.8	0.51	0.9
	2/22/2018 12:50	7.05	2.56	264.44	258.9	31.0	1102.7	10.48	12.24	1.76	0.90		0.42	12.1	1.62	2.8
	2/28/2018 10:07	5.89	0.00	264.44	258.9	0.0	1102.7	9.85	12.17	2.32	0.27		0.42	0.0	0.00	0.0
	3/8/2018 8:20	7.93	7.93	272.36	272.9	14.0	1116.7	10.67	10.89	0.22	1.09		0.42	1.8	0.24	0.4
	3/15/2018 12:40	7.18	7.18	279.54	286.9	14.0	1130.7	10.75	10.96	0.21	1.17		0.42	1.9	0.26	0.5
	3/22/2018 10:58	6.93	6.93	286.47	303.9	17.0	1147.7	11.40	11.61	0.21	1.82		0.42	2.5	0.33	0.6
	3/29/2018 10:57	7.00	6.76	293.24	317.9	14.0	1161.7	10.60	10.78	0.18	1.02		0.42	2.1	0.28	0.5
	4/6/2018 10:55	8.00	8.00	301.23	330.9	13.0	1174.7	11.14	11.39	0.25	1.56		0.42	1.6	0.22	0.4
	4/12/2018 12:10	6.05	6.05	307.29	344.9	14.0	1188.7	10.94	11.20	0.26	1.36		0.42	2.3	0.31	0.5
AW-82 Long term test	4/18/2018 13:03	6.04	6.04	313.32	367.9	23.0	1211.7	10.09	10.34	0.25	0.51		0.42	3.8	0.51	0.9
	4/27/2018 13:01	9.00	7.77	321.09	379.9	12.0	1223.7	10.57	10.81	0.24	0.99		0.42	1.5	0.21	0.4
	5/3/2018 15:24	6.10	6.10	327.19	386.9	7.0	1230.7	10.70	10.88	0.18	1.12		0.42	1.1	0.15	0.3
	5/9/2018 11:31	5.84	5.84	333.03	397.4	10.5	1241.2	10.95	11.15	0.20	1.37		0.42	1.8	0.24	0.4
	5/17/2018 12:41	8.05	8.05	341.08	410.9	13.5	1254.7	10.58	10.76	0.18	1.00		0.42	1.7	0.22	0.4
	<i>END OF TEST INTERVAL - SYSTEM DOWN DUE TO MALFUNCTION</i>															
	6/7/2018 13:00	--	0.00	0.00	--	--	1254.7	10.20	10.70	0.50	0.62		0.42	--	--	--
	6/7/2018 14:31	0.06	0.02	0.02	0.5	0.5	1255.2	10.16	10.32	0.16	0.58		0.42	31.0	4.14	7.2
	6/14/2018 11:28	6.87	6.87	6.89	1.0	0.5	1255.7	9.85	10.01	0.16	0.27		0.42	0.1	0.01	0.0
	6/22/2018 13:42	8.09	8.09	14.98	3.5	2.5	1258.2	10.31	10.50	0.19	0.73		0.42	0.3	0.04	0.1
	6/28/2018 9:40	5.83	5.83	20.81	3.5	0.0	1258.2	9.97	10.25	0.28	0.39		0.42	0.0	0.00	0.0
AW-82 Long term test	7															

Appendix A

AW-82 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-82 Long term test	8/16/2018 10:16	7.01	4.65	57.62	23.5	2.0	1278.2	10.36	10.55	0.19	0.78		0.42	0.4	0.06	0.1
	8/23/2018 10:51	7.02	6.80	64.42	30.5	7.0	1285.2	9.96	10.14	0.18	0.38		0.42	1.0	0.14	0.2
	8/30/2018 10:56	7.00	7.00	71.42	39.0	8.5	1293.7	10.20	10.38	0.18	0.62		0.42	1.2	0.16	0.3
	9/5/2018 10:15	5.97	5.97	77.40	41.5	2.5	1296.2	10.03	10.25	0.22	0.45		0.42	0.4	0.06	0.1
	9/14/2018 13:26	9.13	9.13	86.53	44.7	3.2	1299.4	9.72	9.92	0.20	0.14		0.42	0.4	0.05	0.1
	9/21/2018 12:00	6.94	6.72	93.25	47.0	2.3	1301.7	10.22	10.44	0.22	0.64		0.42	0.3	0.05	0.1
	9/25/2018 12:57	4.04	4.04	97.29	53.2	6.2	1307.9	10.00	10.15	0.15	0.42		0.42	1.5	0.21	0.4
	10/4/2018 11:15	8.93	8.93	106.22	54.6	1.4	1309.3	10.22	10.50	0.28	0.64		0.42	0.2	0.02	0.0
	10/10/2018 10:17	5.96	5.96	112.18	56.1	1.5	1310.8	9.73	9.98	0.25	0.15		0.42	0.3	0.03	0.1
	10/17/2018 8:26	6.92	6.92	119.10	57.3	1.2	1312.0	10.00	10.26	0.26	0.42		0.42	0.2	0.02	0.0
	10/23/2018 12:49	6.18	5.96	125.06	58.3	1.0	1313.0	9.93	10.06	0.13	0.35		0.42	0.2	0.02	0.0
	11/1/2018 10:04	8.89	8.89	133.95	60.0	1.7	1314.7	10.36	10.58	0.22	0.78		0.42	0.2	0.03	0.0
	11/8/2018 14:27	7.18	7.18	141.13	60.6	0.6	1315.3	10.06	10.23	0.17	0.48		0.42	0.1	0.01	0.0
	11/16/2018 12:06	7.90	6.27	147.40	61.6	1.0	1316.3	10.00	10.30	0.30	0.42		0.42	0.2	0.02	0.0
	11/20/2018 9:43	3.90	3.66	151.06	62.6	1.0	1317.3	10.30	10.48	0.18	0.72		0.42	0.3	0.04	0.1
	11/29/2018 11:40	9.08	4.31	155.38	63.6	1.0	1318.3	10.03	10.91	0.88	0.45		0.42	0.2	0.03	0.1
	12/5/2018 10:25	5.95	2.46	157.83	64.6	1.0	1319.3	9.60	9.74	0.14	0.02		0.42	0.4	0.05	0.1
	12/10/2018 10:40	5.01	5.01	162.84	64.6	0.0	1319.3	9.38	9.50	0.12	-0.20		0.42	0.0	0.00	0.0
	12/14/2018 10:17	3.98	3.98	166.82	66.6	2.0	1321.3	9.49	9.53	0.04	-0.09		0.42	0.5	0.07	0.1
	12/19/2018 10:15	5.00	5.00	171.82	66.6	0.0	1321.3	9.13	9.15	0.02	-0.45		0.42	0.0	0.00	0.0
	12/28/2018 14:01	9.16	8.96	180.78	101.6	35.0	1356.3	9.82	11.92	2.10	0.24		0.42	3.9	0.52	0.9
	1/3/2019 10:14	5.84	1.65	182.43	114.6	13.0	1369.3	9.13	10.30	1.17	-0.45		0.42	7.9	1.05	1.8
	1/7/2019 10:24	4.01	4.01	186.44	119.6	5.0	1374.3	9.64	9.66	0.02	0.06		0.42	1.2	0.17	0.3
	1/18/2019 13:14	11.12	11.12	197.56	120.7	1.1	1375.4	9.91	9.96	0.05	0.33		0.42	0.1	0.01	0.0
	1/24/2019 11:35	5.93	5.93	203.49	120.7	0.0	1375.4	9.45	9.46	0.01	-0.13		0.42	0.0	0.00	0.0
	1/31/2019 11:04	6.98	5.36	208.85	124.7	4.0	1379.4	10.16	10.19	0.03	0.58		0.42	0.7	0.10	0.2
	2/8/2019 9:49	7.95	2.86	211.71	124.7	0.0	1379.4	10.10	10.18	0.08	0.52		0.42	0.0	0.00	0.0
	2/12/2019 16:08	4.26	4.26	215.97	124.7	0.0	1379.4	9.70	9.82	0.12	0.12		0.42	0.0	0.00	0.0
END OF SKIMMING - WELL TRANSITIONED TO INTERMITTENT EVENTS																

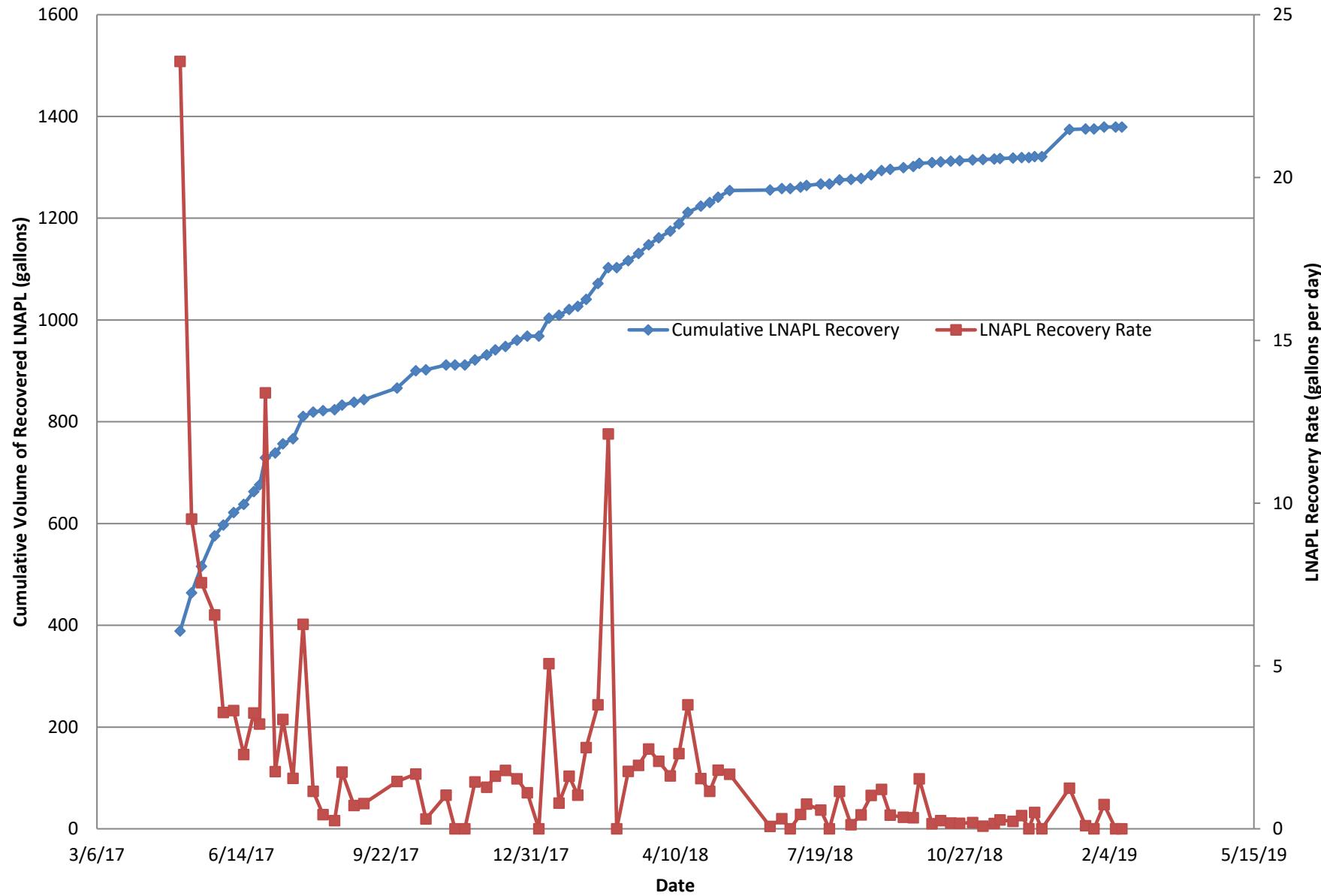
0.854

Assumed LNAPL specific gravity =

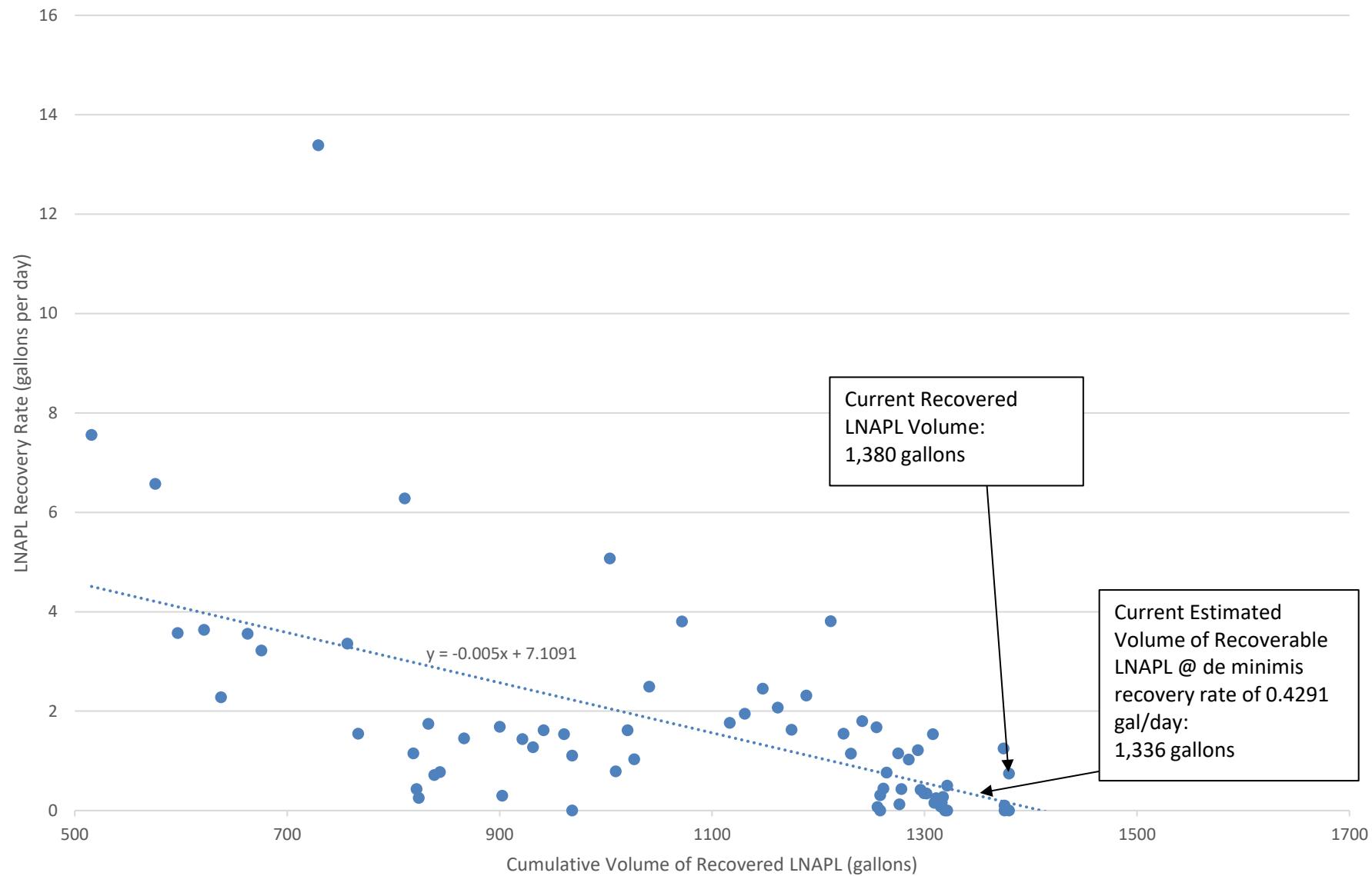
All calculations performed pursuant to the methodology detailed in ASTM E2856-13

^aThe maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.^bRepresents the geometric mean of the stabilized recovery rates/LNAPL transmissivity estimates (i.e., excludes initial elevated values that would not represent potential long-term recovery rates).

AW-82: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time

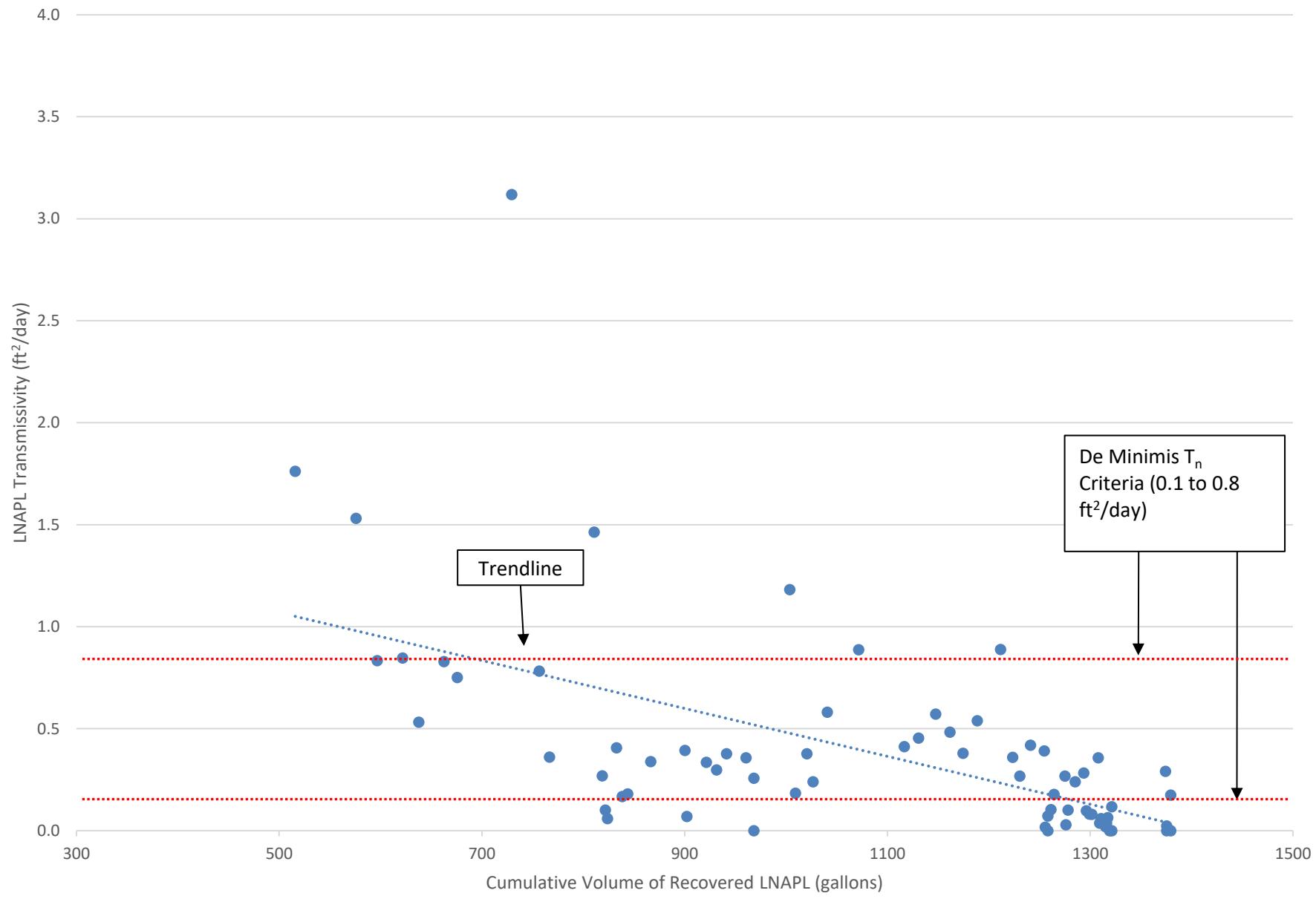


AW-82: LNAPL Volumetric Recovery Decline Curve Analysis



Note: Only data following stabilization of LNAPL recovery and during intervals without skimmer operation issues are depicted and were utilized to develop the recovery decline curve analysis

AW-82: LNAPL Transmissivity Decline Curve Analysis



Appendix B

LNAPL Transmissivity Evaluation Summary

Tables and Charts for Intermittent Skimming Wells

Appendix B

AW-12 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ² /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-12 Short term test	Equilibrium						8.60	14.81	6.21	--	1.07		--	--	--	--
	9/22/2016 11:45	--		--	--	--	5.47	16.20	10.73	--		--	--	--	--	--
	9/28/2016 8:55	5.88	5.88	5.88	24.6	24.6	24.6	11.31	11.41	0.10	2.71		1.07	4.2	0.56	0.4
	10/5/2016 13:03	7.17	7.17	13.05	30.5	5.9	30.5	11.18	12.26	1.08	2.58		1.07	0.8	0.11	0.08
AW-12 Long term test	12/6/2017 11:17	--	--	0.00	--	--	30.5	11.24	17.11	5.87	--		--	--	--	--
	12/6/2017 14:20	0.13	0.13	0.13	12.0	12.0	42.5	10.48	12.47	1.99	1.88		1.07	94.4	12.62	8.6
	12/6/2017 14:50	0.02	0.02	0.15	15.0	3.0	45.5	11.70	12.20	0.50	3.10		1.07	144.0	19.25	13.2
	12/6/2017 15:20	0.02	0.02	0.17	17.0	2.0	47.5	11.81	12.19	0.38	3.21		1.07	96.0	12.83	8.8
	12/6/2017 15:50	0.02	0.02	0.19	17.0	0.0	47.5	11.53	11.81	0.28	2.93		1.07	0.0	0.00	0.0
	12/13/2017 10:24	6.77	6.40	6.59	21.0	4.0	51.5	12.00	12.15	0.15	3.40		1.07	0.6	0.08	0.1
	12/21/2017 12:45	8.10	8.10	14.69	28.0	7.0	58.5	12.00	12.15	0.15	3.40		1.07	0.9	0.12	0.1
	12/28/2017 14:34	7.08	7.08	21.77	30.0	2.0	60.5	11.98	12.21	0.23	3.38		1.07	0.3	0.04	0.0
	1/5/2018 13:43	7.96	7.53	29.30	30.0	0.0	60.5	11.80	11.90	0.10	3.20		1.07	0.0	0.00	0.0
	1/12/2018 12:51	6.96	5.82	35.11	53.0	23.0	83.5	11.41	11.93	0.52	2.81		1.07	4.0	0.53	0.4
	1/19/2018 13:25	7.02	7.02	42.14	60.0	7.0	90.5	11.52	11.69	0.17	2.92		1.07	1.0	0.13	0.1
	1/26/2018 11:12	6.91	3.18	45.31	60.0	0.0	90.5	12.33	13.05	0.72	3.73		1.07	0.0	0.00	0.0
	2/1/2018 11:56	6.03	0.00	45.31	60.0	0.0	90.5	11.61	11.83	0.22	3.01		1.07	0.0	0.00	0.0
	2/7/2018 8:35	5.86	2.01	47.33	66.0	6.0	96.5	12.17	12.20	0.03	3.57		1.07	3.0	0.40	0.3
	2/15/2018 11:56	8.14	7.95	55.28	67.0	1.0	97.5	11.78	11.94	0.16	3.18		1.07	0.1	0.02	0.0
	2/22/2018 13:07	7.05	6.29	61.56	81.0	14.0	111.5	12.28	12.30	0.02	3.68		1.07	2.2	0.30	0.2
	2/28/2018 9:55	5.87	0.00	61.56	81.0	0.0	111.5	11.51	11.70	0.19	2.91		--	--	--	--
END OF TEST INTERVAL																
AW-12 First Intermittent Event	6/14/2018 11:10	--	--	0.00	0.0	0.0	111.5	10.80	14.00	3.20	--		--	--	--	--
	6/22/2018 13:26	--	0.00	0.00	0.0	0.0	111.5	11.38	16.38	5.00	2.78		--	--	--	--
	6/22/2018 15:25	0.08	0.08	0.08	4.3	4.3	115.8	11.76	13.76	2.00	3.16		1.07	53.1	7.09	4.9
	6/28/2018 9:58	5.77	5.77	5.85	13.0	8.7	124.5	11.40	11.63	0.23	2.80		1.07	1.5	0.20	0.1
	7/5/2018 10:52	7.04	7.04	12.89	16.0	3.0	127.5	11.52	11.56	0.04	2.92		1.07	0.4	0.06	0.0
	7/9/2018 14:45	4.16	4.16	17.05	20.7	4.7	132.2	11.38	11.53	0.15	2.78		1.07	1.1	0.15	0.1
	7/19/2018 11:06	9.85	9.66	26.71	69.6	48.9	181.1	11.42	11.73	0.31	2.82		1.07	5.1	0.68	0.5
	7/25/2018 11:02	6.00	6.00	32.71	69.6	0.0	181.1	11.13	11.36	0.23	2.53		1.07	0.0	0.00	0.0
	8/1/2018 9:59	6.96	6.96	39.66	78.6	9.0	190.1	11.46	11.51	0.05	2.86		1.07	1.3	0.17	0.1
	8/9/2018 10:10	8.01	8.01	47.67	83.1	4.5	194.6	11.26	11.29	0.03	2.66		1.07	0.6	0.08	0.1
	8/16/2018 10:27	7.01	6.55	54.22	83.6	0.5	195.1	11.48	11.66	0.18	2.88		1.07	0.1	0.01	0.0
	8/23/2018 11:01	7.02	6.55	60.77	84.1	0.5	195.6	11.38	11.53	0.15	2.78		1.07	0.1	0.01	0.0
END OF TEST INTERVAL																
AW-12 Second Intermittent Event	4/3/2019 10:10	--	--	0.00	0.0	--	195.6	9.32	11.36	2.04	--		--	--	--	--
	4/3/2019 11:12	0.04	0.04	0.04	1.7	1.7	197.3	9.81	10.29	0.48	1.21		1.07	39.5	5.28	3.6
	4/10/2019 10:19	6.96	6.91	6.95	2.0	0.3	197.6	9.83	9.95	0.12	1.23		1.07	0.0	0.01	0.0
	4/18/2019 11:25	8.05	8.05	15.00	2.1	0.1	197.7	9.55	9.62	0.07	0.95		1.07	0.0	0.00	0.0
	4/26/2019 11:41	8.01	8.01	23.01	4.1	2.0	199.7	9.65	9.91	0.26	1.05		1.07	0.2	0.03	0.0
	5/3/2019 12:40	7.04	6.84	29.85	5.2	1.1	200.8	9.50	9.70	0.20	0.90		1.07	0.2	0.02	0.0
	5/7/2019 9:15	3.86	3.86	33.71	7.6	2.4	203.2	9.95	10.19	0.24	1.35		1.07	0.6	0.08	0.1

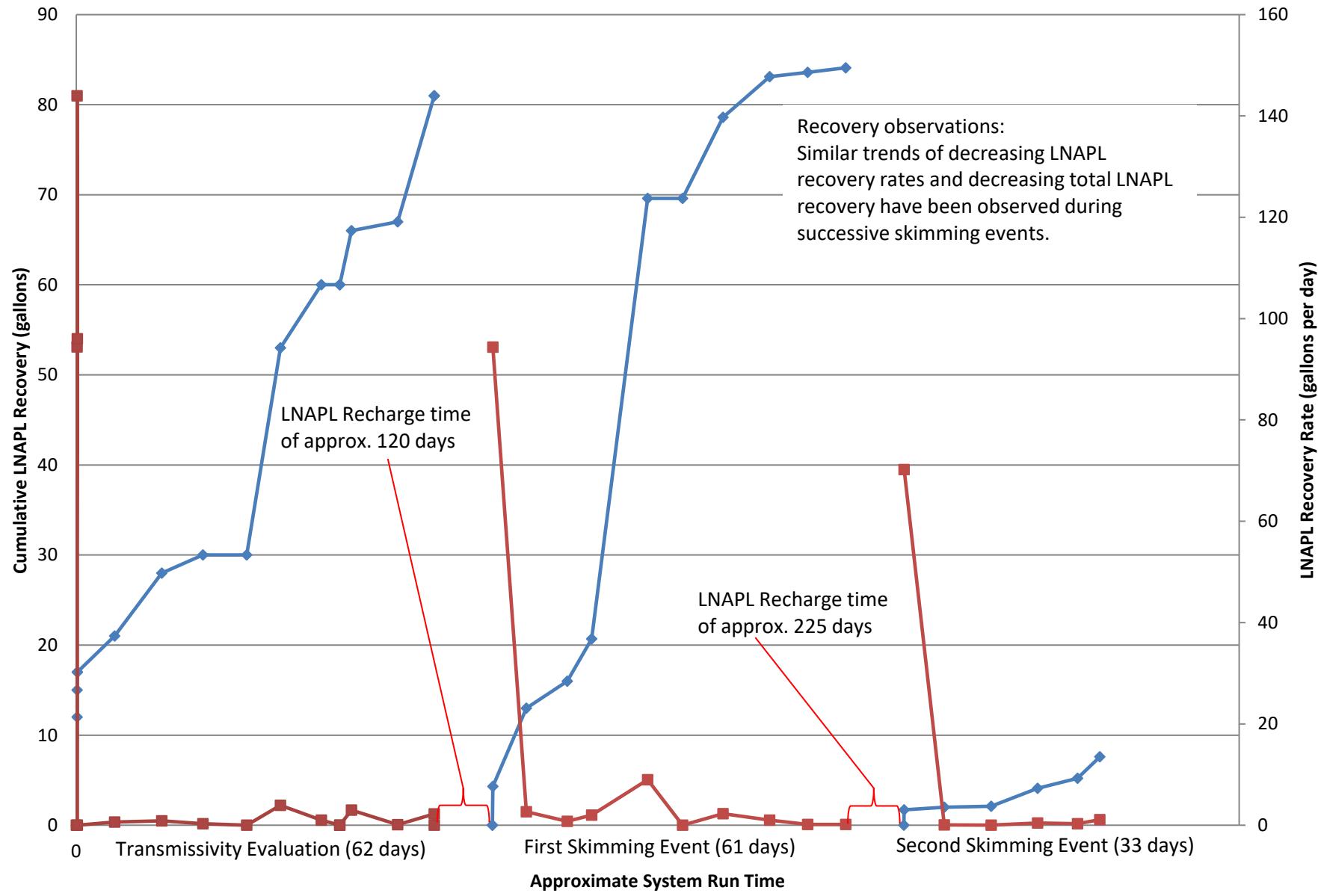
Assumed LNAPL specific gravity = 0.8275

All calculations performed pursuant to the methodology detailed in ASTM E2856-13

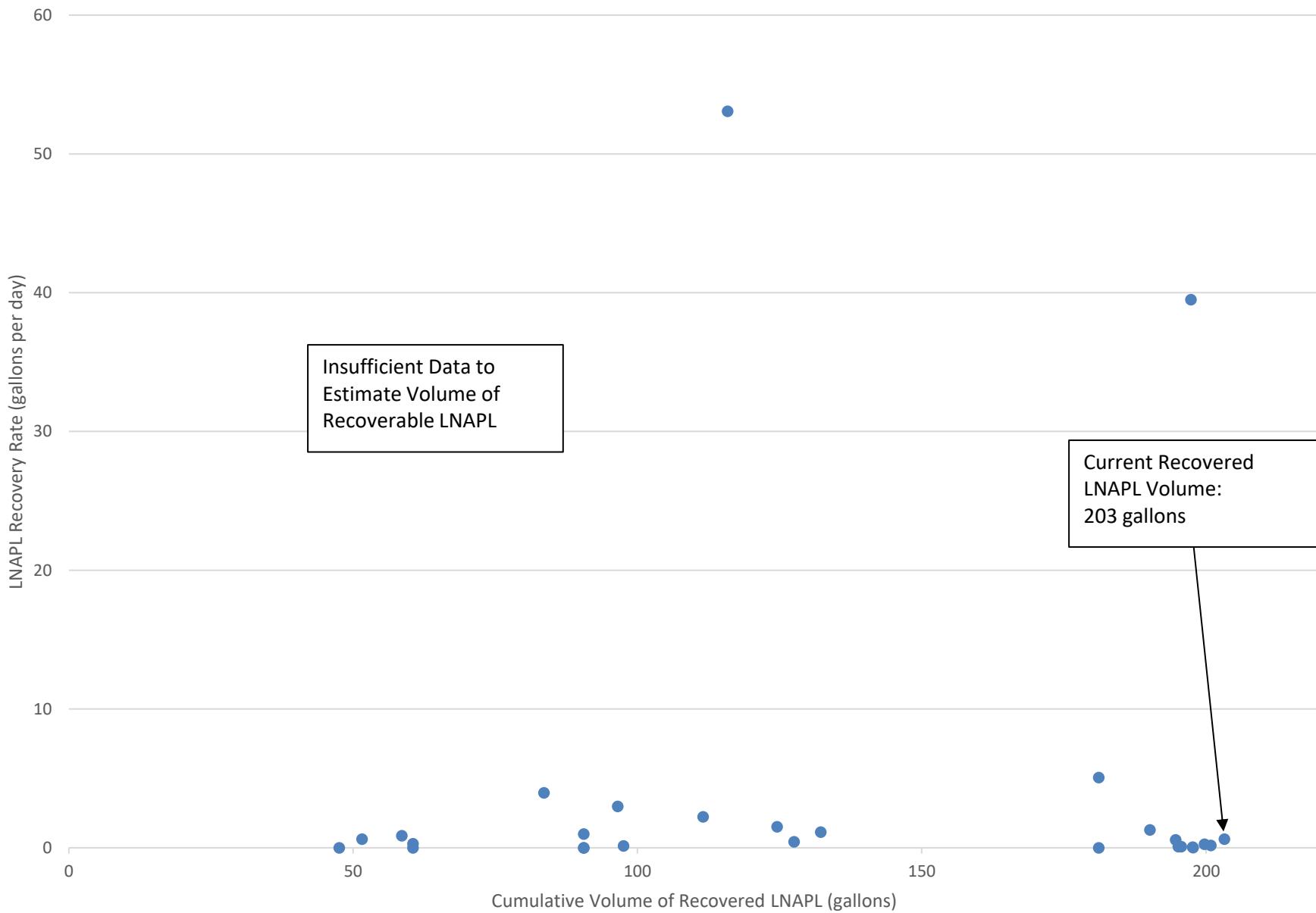
*The maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.

^Represents the geometric

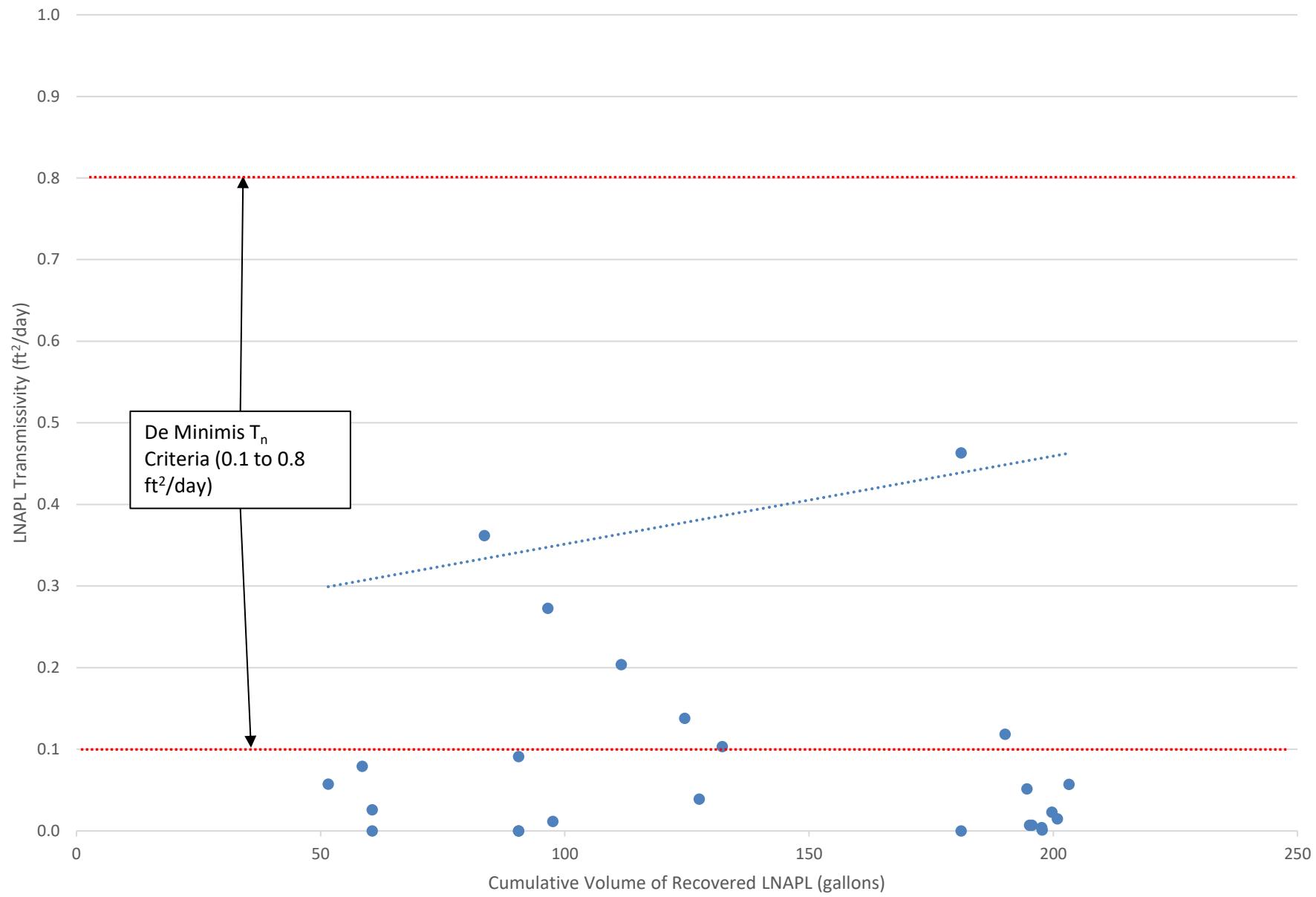
AW-12: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time



AW-12: LNAPL Volumetric Recovery Decline Curve Analysis



AW-12: LNAPL Transmissivity Decline Curve Analysis



Appendix B

AW-15 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
	Equilibrium							9.99	10.91	0.92	--	0.13		--	--	--
AW-15 Transmissivity Evaluation	2/21/2019 10:09	--	--	--	--	0.0	10.39	11.60	1.21	--				--	--	--
	2/21/2019 11:40	0.06	0.05	0.05	0.80	0.8	0.8	10.25	10.71	0.46	0.26		0.13	15.3	2.04	11.5
	3/1/2019 10:59	7.97	7.95	8.01	0.80	0.0	0.8	10.94	10.95	0.01	0.95		0.13	0.0	0.00	0.0
	3/7/2019 10:30	5.98	5.98	13.99	2.00	1.2	2.0	10.94	10.99	0.05	0.95		0.13	0.2	0.03	0.2
	3/13/2019 11:01	6.02	6.01	19.99	2.50	0.5	2.5	11.03	11.19	0.16	1.04		0.13	0.1	0.01	0.1
	3/21/2019 10:46	7.99	7.99	27.98	3.50	1.0	3.5	11.01	11.22	0.21	1.02		0.13	0.1	0.02	0.1
	3/28/2019 10:25	6.99	6.77	34.75	3.50	0.0	3.5	11.35	11.36	0.01	1.36		0.13	0.0	0.00	0.0
	4/3/2019 10:28	6.00	6.00	40.75	3.50	0.0	3.5	11.44	11.45	0.01	1.45		0.13	0.0	0.00	0.0
	4/10/2019 10:35	7.00	7.00	47.76	3.50	0.0	3.5	11.51	11.65	0.14	1.52		0.13	0.0	0.00	0.0
	4/18/2019 11:44	8.05	8.05	55.81	4.20	0.7	4.2	11.35	11.37	0.02	1.36		0.13	0.1	0.01	0.1
	4/26/2019 11:59	8.01	7.80	63.61	5.20	1.0	5.2	11.41	11.42	0.01	1.42		0.13	0.1	0.02	0.1
	5/3/2019 12:00	7.00	7.00	70.61	5.20	0.0	5.2	11.54	11.85	0.31	1.55		0.13	0.0	0.00	0.0
	5/6/2019 11:50	2.99	2.99	73.60	5.20	0.0	5.2	11.60	11.82	0.22	1.61		0.13	0.0	0.00	0.0
<i>Test Concluded</i>																

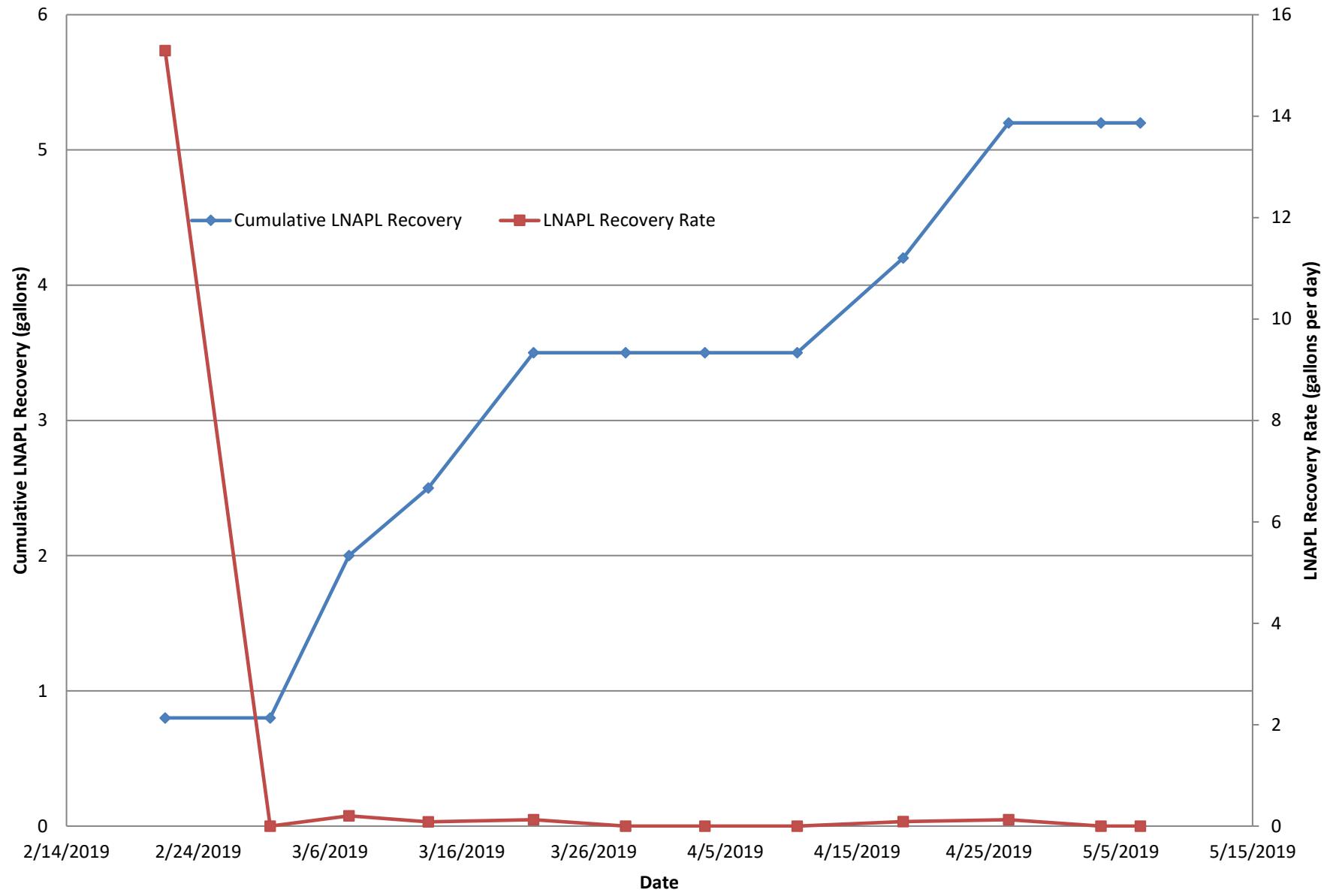
Assumed LNAPL specific gravity = 0.854

All calculations performed pursuant to the methodology detailed in ASTM E2856-13

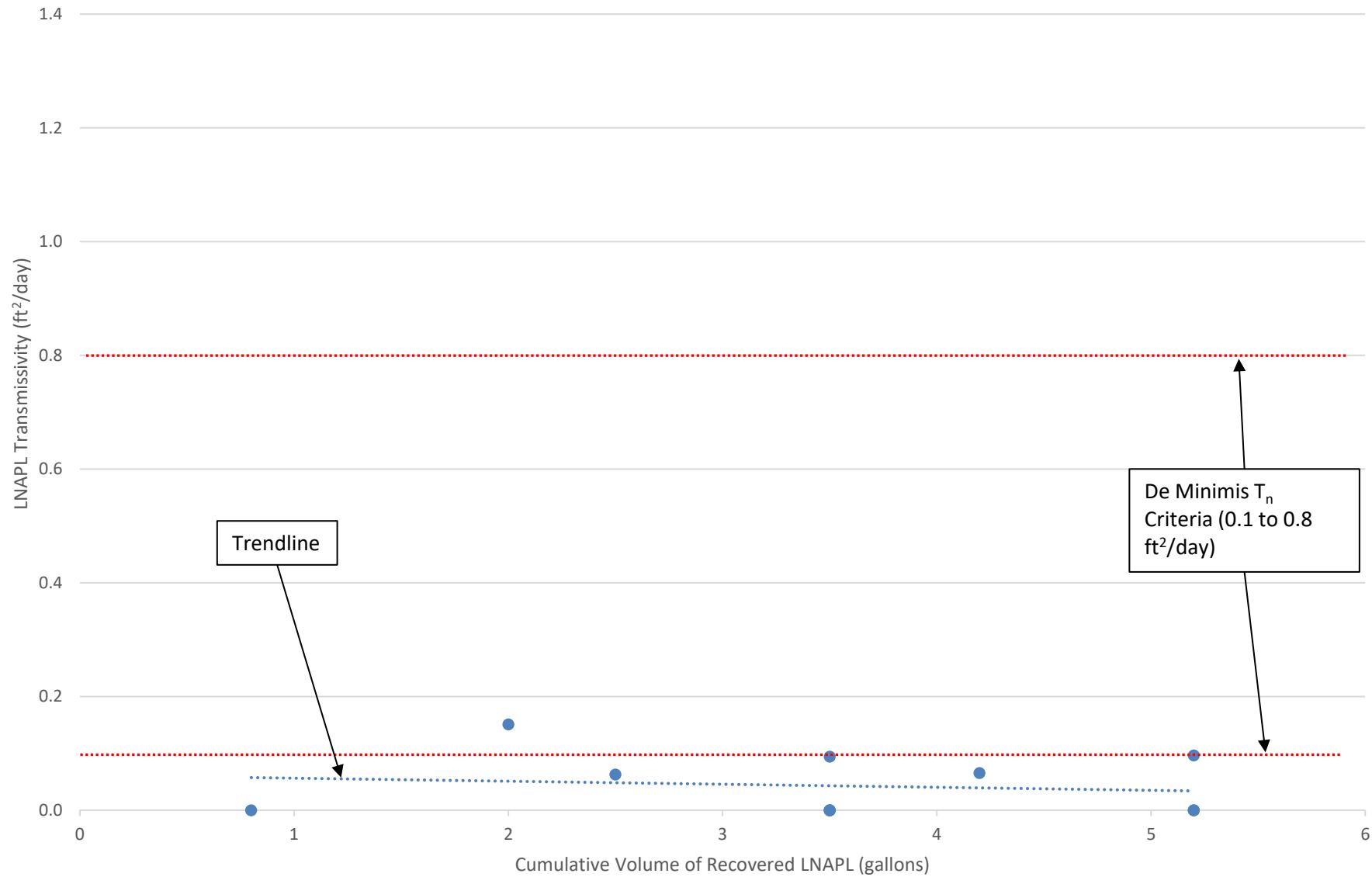
^aThe maximum theoretical drawdown is used for each interval calculation where the measured drawdown is negative or where it exceeds the theoretical maximum.^bRepresents the geometric mean of the stabilized recovery rates/LNAPL transmissivity estimates (i.e., excludes initial elevated values that would not represent potential long-term recovery rates).

Equilibrium data is an average of quarterly groundwater data collected from March 2016 through February 2018 and excludes data collected during or following skimming operations.

AW-15: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time



AW-15: LNAPL Transmissivity Decline Curve Analysis

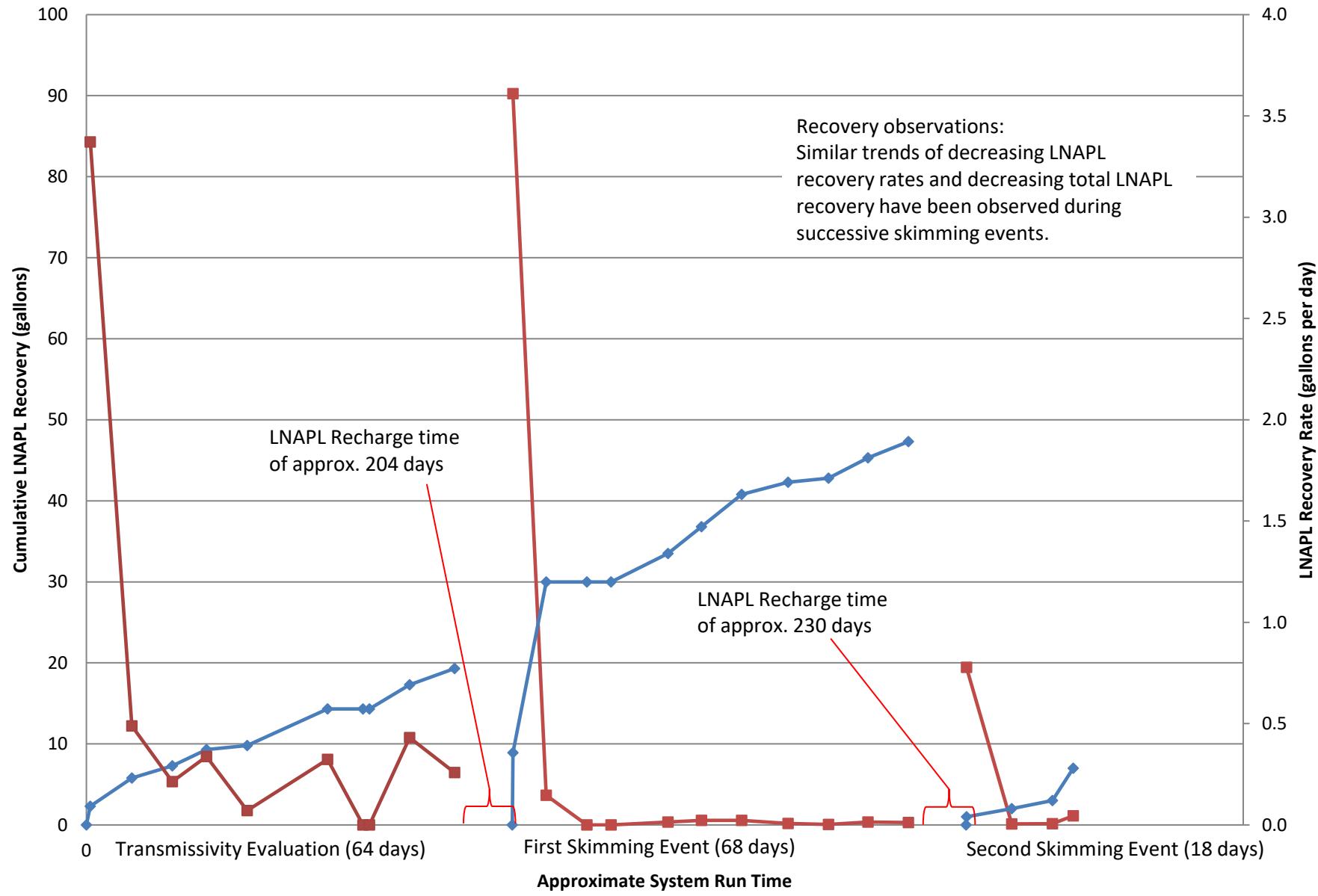


Appendix B

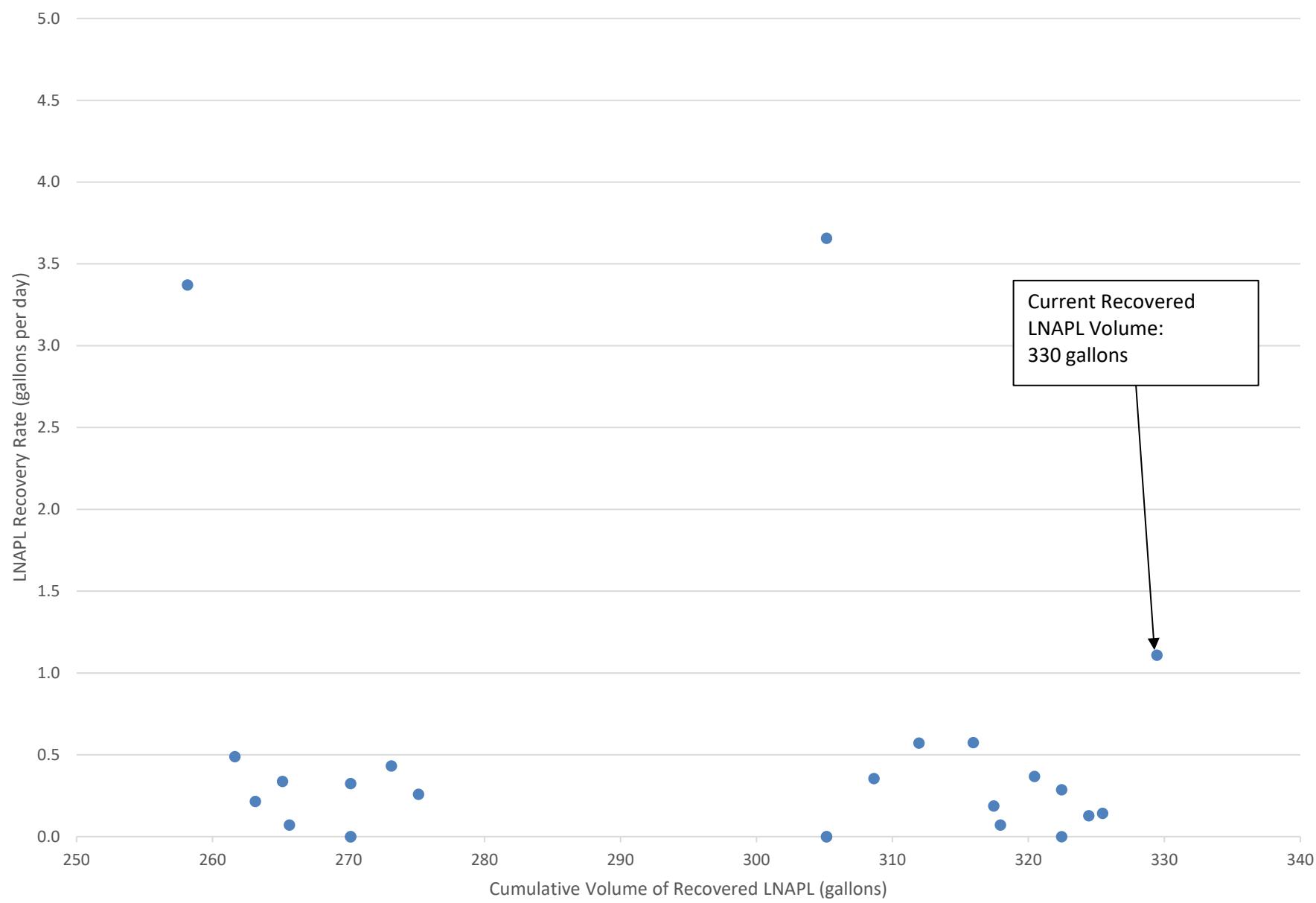
AW-22 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
	Equilibrium	--		--	--	--		11.91	15.46	3.55	--	0.52	--	--	--	--
AW-22 Short term test	9/22/2016 11:45	--		--	--	--		11.20	15.75	4.55	--	--	--	--	--	--
	9/28/2016 8:40	5.87	5.87	5.87	51.0	51.0	51.0	11.82	13.45	1.63	-0.09	0.52	8.7	1.16	1.6	
	10/5/2016 13:40	7.21	5.97	11.84	103.5	52.5	103.5	11.89	13.48	1.59	-0.02	0.52	8.8	1.18	1.7	
	END OF TEST INTERVAL - SHUTDOWN DUE TO HURRICANE															
	10/13/2016 12:50	7.97		0.00	0.0	0.0	103.5	10.15	13.85	3.70		--	--	--	--	
	10/20/2016 10:50	6.92	6.92	6.92	51.0	51.0	154.5	11.07	13.47	2.40	-0.84	0.52	7.4	0.99	1.4	
	END OF TEST INTERVAL - DUE TO SKIMMER MALFUNCTION															
	10/28/2016 10:50	--		--	--	--	10.78	13.17	2.39			--	--	--	--	
	11/4/2016 10:30	6.99	6.94	6.94	36.2	36.2	190.8	11.72	13.40	1.68	-0.19	0.52	5.2	0.70	1.0	
	11/16/2016 7:30	11.88	11.82	18.77	48.0	11.8	202.6	11.90	11.93	0.03	-0.01	0.52	1.0	0.13	0.2	
	11/22/2016 11:41	6.17	6.17	24.94	48.8	0.8	203.3	12.06	14.05	1.99	0.15	0.52	0.1	0.02	0.0	
	END OF TEST INTERVAL - DUE TO SKIMMER MALFUNCTION															
	11/29/2016 12:20	--	--	--	--	--	11.52	14.31	2.79			--	--	--	--	
	12/5/2016 12:15	6.00	5.99	5.99	37.3	37.3	240.7	12.71	13.65	0.94	0.80	0.52	6.2	0.83	1.2	
	12/7/2016 12:30	2.01	1.77	7.76	37.3	0.0	240.7	11.95	13.46	1.51	0.04	0.52	0.0	0.00	0.0	
	12/14/2016 9:24	6.87	6.38	14.14	37.3	0.0	240.7	12.26	12.35	0.09	0.35	0.52	0.0	0.00	0.0	
	12/21/2016 9:00	6.98	6.93	21.07	37.3	0.0	240.7	12.35	12.37	0.02	0.44	0.52	0.0	0.00	0.0	
	12/27/2016 12:00	6.13	6.08	27.14	37.3	0.0	240.7	11.90	12.12	0.22	-0.01	0.52	0.0	0.00	0.0	
	1/4/2017 11:06	7.96	7.91	35.05	37.3	0.0	240.7	12.69	12.80	0.11	0.78	0.52	0.0	0.00	0.0	
	1/9/2017 11:17	5.01	4.90	39.95	50.1	12.8	253.5	12.54	12.61	0.07	0.63	0.52	2.6	0.35	0.5	
	1/19/2017 8:20	9.88	9.81	49.75	52.5	2.4	255.9	12.67	12.73	0.06	0.76	0.52	0.2	0.03	0.0	
	END OF TEST INTERVAL															
AW-22 Long term test	9/21/2017 16:00	--	--	0.00	--	--	--	10.44	14.20	3.76	--		--	--	--	
	9/22/2017 8:44	0.70	0.68	0.68	2.3	2.3	258.2	11.59	11.65	0.06	-0.32	0.52	3.4	0.45	0.6	
	9/29/2017 12:43	7.17	7.17	7.85	5.8	3.5	261.7	11.65	11.68	0.03	-0.26	0.52	0.5	0.07	0.1	
	10/6/2017 12:42	7.00	7.00	14.85	7.3	1.5	263.2	11.41	11.50	0.09	-0.50	0.52	0.2	0.03	0.0	
	10/12/2017 10:55	5.93	5.93	20.77	9.3	2.0	265.2	12.22	12.40	0.18	0.31	0.52	0.3	0.05	0.1	
	10/19/2017 11:05	7.01	7.01	27.78	9.8	0.5	265.7	11.60	11.72	0.12	-0.31	0.52	0.1	0.01	0.0	
	11/2/2017 8:32	13.89	13.89	41.67	14.3	4.5	270.2	12.76	12.86	0.10	0.85	0.52	0.3	0.04	0.1	
	11/8/2017 11:57	6.14	6.14	47.82	14.3	0.0	270.2	12.60	12.82	0.22	0.69	0.52	0.0	0.00	0.0	
	11/15/2017 11:09	6.97	1.12	48.94	14.3	0.0	270.2	12.30	12.81	0.51	0.39	0.52	0.0	0.00	0.0	
	11/22/2017 10:06	6.96	6.96	55.89	17.3	3.0	273.2	12.87	13.07	0.20	0.96	0.52	0.4	0.06	0.1	
	11/30/2017 9:42	7.98	7.74	63.64	19.3	2.0	275.2	12.65	12.84	0.19	0.74	0.52	0.3	0.03	0.0	
	TEST COMPLETED															
AW-22 First	6/14/2018 11:00	--	--	0.00	--	--	275.2	11.49	13.85	2.36	--		--	--	--	
	6/22/2018 12:56	--	--	0.00	0.0	0.0	275.2	12.12	14.51	2.39	0.21		--	--	--	
	6/22/2018 15:18	0.10	0.10	0.10	8.9	8.9	284.1	12.92	13.15	0.23	1.01	0.52	90.3	12.06	17.0	
	6/28/2018 9:47	5.77	5.77	5.87	30.0	21.1	305.2	12.43	12.45	0.02	0.52	0.52	3.7	0.49	0.7	
	7/5/2018 10:45	7.04	7.04	12.91	30.0	0.0	305.2	12.73	12.94	0.21	0.82	0.52	0.0	0.00	0.0	
	7/9/2018 14:37	4.16	4.16	17.07	30.0	0.0	305.2	12.26	12.36	0.10	0.35	0.52	0.0	0.00	0.0	
	7/19/2018 11:00	9.85	9.85	26.92	33.5	3.5	308.7	12.55	12.60	0.05	0.64	0.52	0.4	0.05	0.1	
	7/25/2018 10:56	6.00	5.78	32.70	36.8	3.3	312.0	12.31	12.37	0.06	0.40	0.52	0.6	0.08	0.1	
	8/1/2018 9:53	6.96	6.96	39.66	40.8											

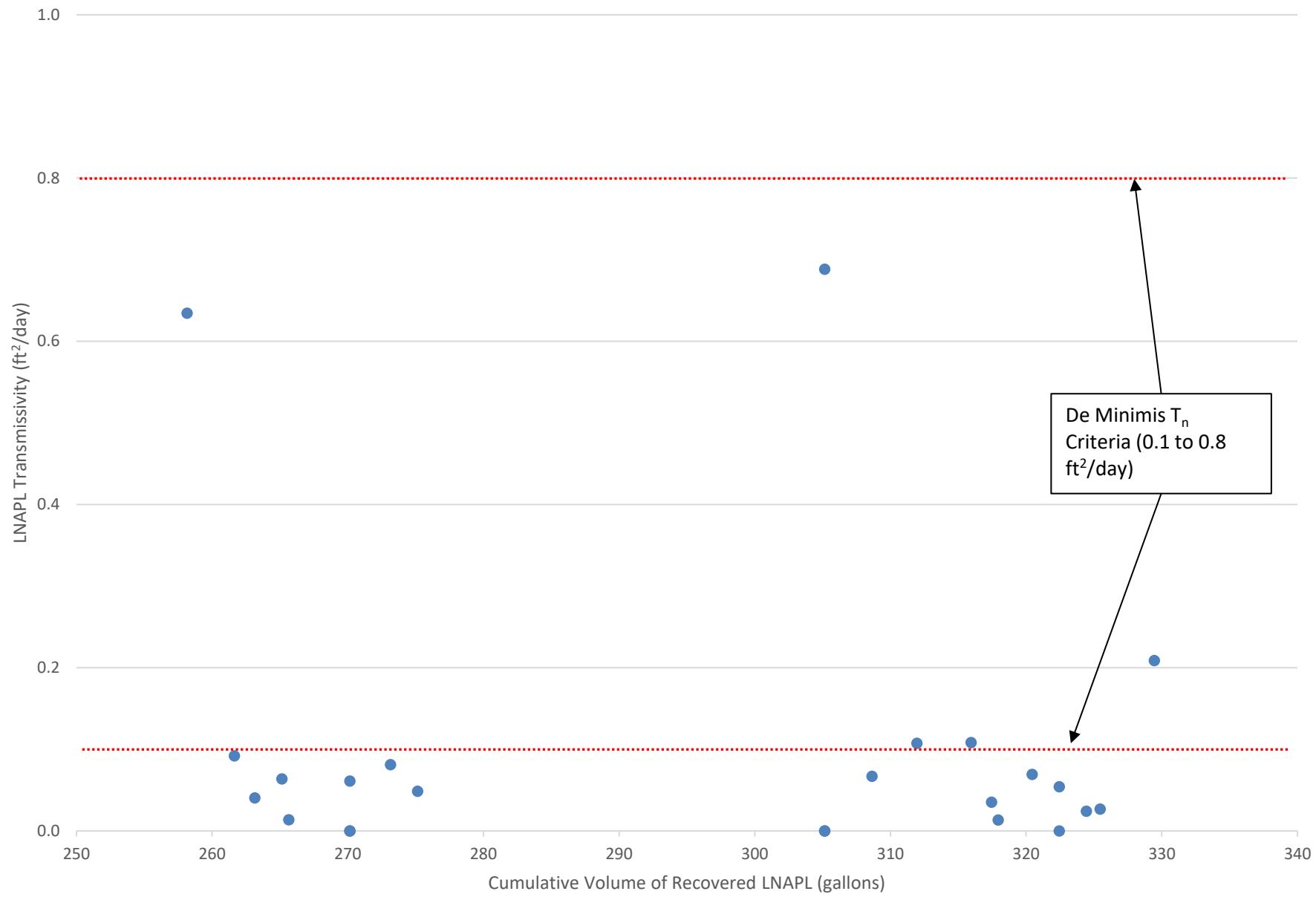
AW-22: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time



AW-22: LNAPL Volumetric Recovery Decline Curve Analysis



AW-22: LNAPL Transmissivity Decline Curve Analysis

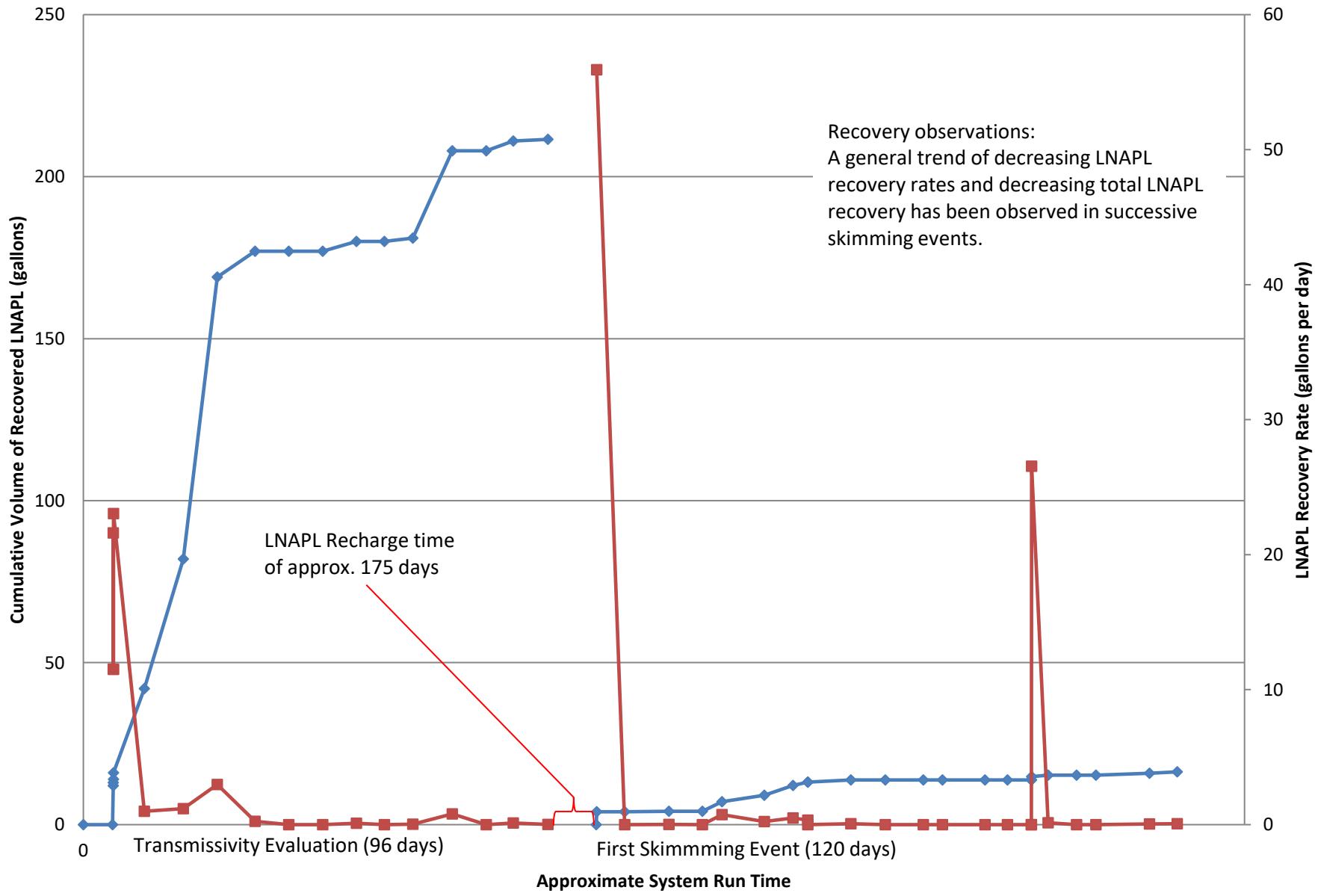


Appendix B

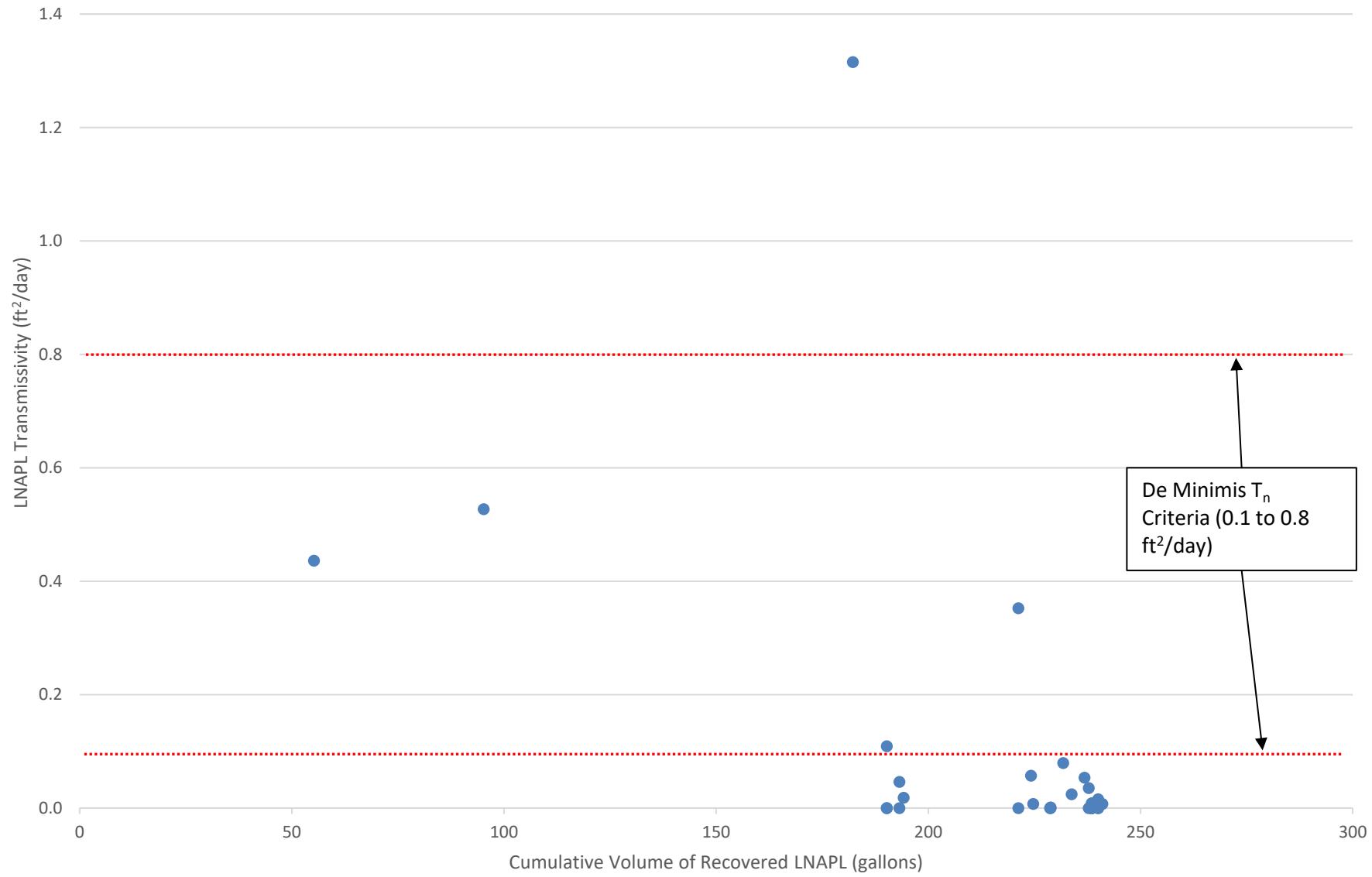
AW-68 LNAPL Skimming Test Results
IMTT Savannah North Terminal
Savannah, Georgia

Well ID	Measurement Date & Time	Time Between Measurement Events (days)	Actual Skimmer Run-Time Between Measurement Events (days)	Cumulative Run Time (days)	Total Volume of LNAPL Recovered (gallons)	Volume of LNAPL Recovered During Measurement Interval (gallons)	RUNNING Total Volume of LNAPL Recovered (gallons)	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	In-Well LNAPL Thickness (feet)	LNAPL Drawdown (feet)	Maximum Theoretical Unconfined LNAPL Drawdown (feet)	LNAPL Drawdown Used in Transmissivity Estimate ^a (feet)	Average LNAPL Recovery Rate for Interval (gal/day)	Average LNAPL Recovery Rate for Interval (ft ³ /day)	Estimated LNAPL Transmissivity for Interval (ft ² /day)
AW-68 Short term test	Equilibrium						10.80	17.07	6.27	--	0.92		--	--	--	--
	5/17/2016 11:30	--	--	--	--	--	11.40	15.11	3.71	--		--	--	--	--	--
	5/20/2016 9:15	2.91	2.91	2.91	5.2	5.2	5.2	10.74	10.91	0.17	-0.06		0.92	1.8	0.24	0.2
	5/25/2016 11:00	5.07	3.60	6.51	6.6	1.4	6.6	10.43	10.76	0.33	-0.37		0.92	0.4	0.05	0.04
	6/1/2016 13:00	7.08	4.04	10.55	6.9	0.3	6.9	11.46	11.84	0.38	0.66		0.92	0.1	0.010	0.01
	6/8/2016 12:15	6.97	17.51	13.2	6.3	13.2	9.90	10.85	0.95	-0.90		0.92	0.9	0.12	0.10	
AW-68 Long term test	11/30/2017 9:50	--	--	0.00	--	--	10.83	17.17	6.34	--		--	--	--	--	--
	12/6/2017 11:08	6.05	6.05	6.05	0.0	0.0	13.2	10.12	15.15	5.03	-0.68		0.92	0.0	0.00	0.0
	12/6/2017 14:20	0.13	0.13	6.18	12.0	12.0	25.2	11.11	13.05	1.94	0.31		0.92	90.0	12.03	9.6
	12/6/2017 14:50	0.02	0.02	6.20	13.0	1.0	26.2	11.36	12.45	1.09	0.56		0.92	48.0	6.42	5.1
	12/6/2017 15:20	0.02	0.02	6.22	14.0	1.0	27.2	11.60	12.35	0.75	0.80		0.92	48.0	6.42	5.1
	12/6/2017 15:50	0.02	0.02	6.25	16.0	2.0	29.2	11.89	12.27	0.38	1.09		0.92	96.0	12.83	10.2
	12/13/2017 10:40	6.78	6.34	12.59	42.0	26.0	55.2	12.36	12.61	0.25	1.56		0.92	4.1	0.55	0.4
	12/21/2017 12:31	8.08	8.08	20.67	82.0	40.0	95.2	11.35	11.37	0.02	0.55		0.92	5.0	0.66	0.5
	12/28/2017 13:23	7.04	7.04	27.70	169.0	87.0	182.2	12.10	12.17	0.07	1.30		0.92	12.4	1.65	1.3
	1/5/2018 13:23	8.00	7.80	35.50	177.0	8.0	190.2	11.33	11.35	0.02	0.53		0.92	1.0	0.14	0.1
	1/12/2018 12:39	6.97	6.97	42.47	177.0	0.0	190.2	12.59	12.65	0.06	1.79		0.92	0.0	0.00	0.0
	1/19/2018 13:04	7.02	7.02	49.49	177.0	0.0	190.2	11.51	11.86	0.35	0.71		0.92	0.0	0.00	0.0
	1/26/2018 11:25	6.93	6.93	56.42	180.0	3.0	193.2	12.78	13.95	1.17	1.98		0.92	0.4	0.06	0.0
	2/1/2018 11:36	6.01	5.81	62.23	180.0	0.0	193.2	11.23	11.43	0.20	0.43		0.92	0.0	0.00	0.0
	2/7/2018 8:25	5.87	5.87	68.10	181.0	1.0	194.2	12.65	13.05	0.40	1.85		0.92	0.2	0.02	0.0
	2/15/2018 12:02	8.15	8.15	76.25	208.0	27.0	221.2	11.64	11.71	0.07	0.84		0.92	3.3	0.44	0.4
	2/22/2018 12:57	7.04	7.04	83.28	208.0	0.0	221.2	11.41	11.72	0.31	0.61		0.92	0.0	0.00	0.0
	2/28/2018 7:52	5.79	5.58	88.87	211.0	3.0	224.2	10.86	11.05	0.19	0.06		0.92	0.5	0.07	0.1
	3/7/2018 11:30	7.15	7.15	96.02	211.5	0.5	224.7	11.49	11.78	0.29	0.69		0.92	0.1	0.01	0.0
	Test Completed															
1st Intermittent Skimming Event	8/30/2018 10:40	--	--	0.00	--	--	224.7	10.88	14.62	3.74	--		--	--	--	--
	8/30/2018 12:37	0.08	0.07	0.07	4.0	4.0	228.7	11.17	11.30	0.13	0.37		0.92	55.9	7.48	5.9
	9/5/2018 10:21	5.91	5.80	5.87	4.0	0.0	228.7	12.20	12.32	0.12	1.40		0.92	0.0	0.00	0.0
	9/14/2018 13:17	9.12	9.12	14.99	4.1	0.1	228.8	10.50	10.76	0.26	-0.30		0.92	0.0	0.00	0.0
	9/21/2018 12:15	6.96	6.96	21.95	4.1	0.0	228.8	12.05	12.20	0.15	1.25		0.92	0.0	0.00	0.0
	9/25/2018 12:49	4.02	4.02	25.97	7.1	3.0	231.8	11.06	11.15	0.09	0.26		0.92	0.7	0.10	0.1
	10/4/2018 11:22	8.94	8.75	34.72	9.1	2.0	233.8	12.48	12.74	0.26	1.68		0.92	0.2	0.03	0.0
	10/10/2018 10:22	5.96	5.96	40.67	12.1	3.0	236.8	10.77	11.03	0.26	-0.03		0.92	0.5	0.07	0.1
	10/16/2018 14:40	6.18	3.04	43.71	13.1	1.0	237.8	10.90	10.93	0.03	0.10		0.92	0.3	0.04	0.0
	10/23/2018 12:35	6.91	0.00	43.71	13.1	0.0	237.8	11.35	11.51	0.16	0.55		0.92	0.0	0.00	0.0
	11/1/2018 10:09	8.90	8.90	52.61	13.8	0.7	238.5	12.70	12.94	0.24	1.90		0.92	0.1	0.01	0.0
	11/8/2018 14:42	7.19	7.11	59.72	13.8	0.0	238.5	12.02	12.12	0.10	1.22		0.92	0.0	0.00	0.0
	11/16/2018 11:40	7.87	7.87	67.60	13.8	0.0	238.5	11.65	14.05	2.40	0.85		0.92	0.0	0.00	0.0
	11/20/2018 9:50	3.92	3.92	71.52	13.8	0.0	238.5	11.21	11.34	0.13	0.41		0.92	0.0	0.00	0.0
	11/29/2018 10:54	9.04	8.84	80.36	13.8	0.0	238.5	11.21	11.34	0.13	0.41		0.92	0.0	0.00	0.0
	12/5/2018 11:15	6.01	4.60	84.96	13.8	0.0	238.5	11.20	11.39	0.19	0.40		0.92	0.0	0.00	0.0
	12/10/2018 10:50	4.98	4.98	89.95	13.8	0.0	238.5	10.10	10.31	0.21	-0.70		0.92	0.0	0.00	0.0
	12/14/2018 10:27</td															

AW-68: Cumulative LNAPL Recovery and LNAPL Recovery Rate Over Time



AW-68: LNAPL Transmissivity Decline Curve Analysis



Appendix C

Labor Hours Summary

May 1 2018 through October 31 2018

Labor Hours
November 1, 2018 through April 30, 2019
IMTT EPIC LLC Savannah North Terminal
Savannah, Georgia

Category	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19
Professional Engineer Labor Hours	33.5	25.5	20	27	20.5	16.5
Total Labor Hours	136.5	164	75.25	133.5	86.7	93.75



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

John DiZinno
John.DiZinno@ghd.com
678.280.2121

www.ghd.com