

ATLAS



Corrective Action System Evaluation and Monitoring Report

2nd half 2023

Circle K # 2720886

UST Site # 01589

4315 Savannah Highway, Ravenel, South Carolina

PREPARED FOR:



And
South Carolina Department of Health and Environmental
Control-UST Management Division

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Corrective Action System Evaluation and Monitoring Report

2nd Semi-Annual Period 2023

Circle K Store no. 2720886

Release Reported 8/2/2018

4315 Savannah Highway


Ravenel (Charleston County), South Carolina

UST Permit No. 01589, CA # 61117

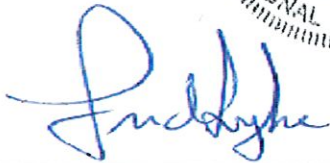
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Contractor Certification No. 313

October 27, 2023

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1.0 INTRODUCTION

Atlas Technical (Atlas, dba ATC) has prepared this Corrective Action System Evaluation (CASE) and Monitoring Report for corrective action of release # 4 (reported August 2, 2018) at the Circle K Store # 2720886, located at 4315 Savannah Highway in Ravenel, Charleston County, South Carolina. The report has been prepared on behalf of the responsible party, Circle K Stores, Inc. The report documents monitoring well gauging and sampling activities and presents results and performance metrics. The report covers the status of the remedial effort for the second half of 2023.

2.0 SITE DESCRIPTION

2.1 Site Characterization

A site topographic location map is presented as **Figure 1** and a site map with current monitoring and recovery wells is presented as **Figure 2**. The facility has historically transacted as a convenience store distributing retail gasoline and diesel fuel. The subject property is owned by the Gregorie Land Company, LLC (P.O. Box 248, Mount Pleasant, SC 29465-0248; Telephone: (843) 884-4153). The site is located in the southwestern quadrant of the intersection between Savannah Highway (U.S. Highway 17) and South Carolina Highway 162, east of Ravenel, in Charleston County, SC. The properties located immediately adjacent to the subject property have been commercially developed or remain wooded. According to the SCDHEC UST registry database, the release has a South Carolina Risk-Based Corrective Action (SCRBCA) risk classification score of 1E, based on the presence of free product on surface water in the immediate vicinity.

The site is situated in the lower Coastal Plain physiographic province and is at an estimated elevation of 20 feet above mean sea level. The site has no apparent

slope. It is situated approximately 2,000 feet south and southwest of Wallace River, a sensitive ecological zone estuary. Based on the Tier II Assessment data, site soils are dominantly fine to medium sand, slightly silty and clayey in layers. The water table occurs at depths of one to three feet across the site, and shallow groundwater flow is to the northwest. Utilities available to the site vicinity include water and sewer service. Natural gas and telecom utilities are also along Savannah Highway. It is assumed these are within the saturated zone of the water table in the site vicinity. Although public water service is available, there are a number of in-use potable and non-potable wells in an approximately 2,000-foot radius of the site, primarily to the northwest, west and southwest.

2.2 Site Background

Information available in the SCDHEC Underground Storage Tank (UST) Registry database indicates that four (4) USTs have been in operation at the site since 1/1/90. Three (3) USTs exhibiting storage capacities of 10,000 gallons each, store regular unleaded gasoline, premium-grade unleaded gasoline and diesel fuel. A single 6,000-gallon UST stores medium-grade unleaded gasoline. According to data available in the SCDHEC UST Registry, four (4) petroleum releases at the site have been documented. Petroleum release #1 was confirmed on 12/31/91 and received a No Further Action (NFA) designation on 8/29/94. Petroleum release # 2 was confirmed on 2/10/94 and received an NFA designation on 9/27/07. A third petroleum release at the site was assigned on 2/26/18. This release received an NFA on 11/2/18.

Following a significant precipitation event on 08/02/18, suspected gasoline product was identified in the grassed median between northbound and southbound U.S. Highway 17 northwest of the subject property. Suspected gasoline was additionally observed filling cracks in the asphalt of both the southern and northern shoulders of the southbound lane of U.S. Highway 17. Circle K retained ATC to perform emergency abatement measures, and by

08/28/18, approximately 1,270 gallons of product and over 20,000 gallons of petroleum-impacted water had been recovered from shallow sumps installed on the site, and from stormwater drains located in the highway median, and pooled product on the western edge of the highway. On 08/08/18, tank tightness testing performed on the UST System operating at the site determined that the gravity-fed remote fill lines supplying the regular and mid-grade unleaded gasoline USTs and the diesel fuel UST had lost integrity. In accordance with the SCDHEC directive of 08/21/18, ATC performed a Tier II Assessment of the release. The results of the investigation were submitted in the Tier II Assessment Report of 12/21/18.

For the Tier II Assessment, a total of 57 screening points were installed to attempt to delineate the free-phase and dissolved contamination in shallow groundwater. An additional eight soil samples were collected to assess soil conditions. As a result of screening, a total of 31 shallow (Type 2) monitoring wells, three deep cased (Type 3) monitoring wells, and six 4-inch diameter recovery wells were installed. The assessment indicated that the flow of groundwater in the upper (shallow) portion of the surficial aquifer was to the northwest, at a relatively flat gradient (0.012 feet per foot) Depth to the water table ranged from 1.3 to 7.6 feet below grade. The potentiometric flow in the lower portion of the surficial aquifer was determined to be to the northeast, at a gradient of 0.031 feet per foot. Seepage velocities were calculated as 2.76 feet/year to the northwest for the shallow portion of the surficial aquifer and 3.04 feet/year for the lower portion of the surficial aquifer. Soil in the upper portion was predominantly slightly silty and clayey sand. In the deeper portion, the percentage of sand relative to silt and clay was even higher. Measurable free phase product (a.k.a. light non-aqueous phase liquid, or LNAPL) was detected in wells 01589 MW-6 (2.3 ft.), 01589 RW-5 (2.8 ft.), and 01589 RW-6 (3.11 ft.). Chemicals of Concern (CoCs) in groundwater above SCDHEC risk-based screening levels (RBSLs) included benzene, toluene, ethylbenzene, total

xylene, naphthalene, MtBE, tert-Butyl alcohol (tBA), tert-Amyl alcohol (tAA), ethyl-tert Butyl ether (EtBE), and ethyl alcohol (ethanol). The lateral extent of dissolved CoCs above RBSLs was delineated by the well network, and with the exception of benzene in deep well 01589 DW-1, the vertical extent was delineated. Surficial water samples were collected from nine established sampling points in and around the site, including standing pooled water and natural water courses. One of these (SW-4) was found to contain benzene above its RBSL. This sample location is standing water approximately 200 feet north of the site. The other eight sample locations did not contain detectable levels of CoCs.

In conjunction with the Tier II Assessment, private water wells within an approximately 2,000-foot radius of the site identified by SCDHEC personnel were sampled following permission from the owners. These wells, identified as WSW-1 through WSW-29, were variously sampled on 8/17/18 through 8/29/18, 9/27/18, 10/31/18 and 11/9/18. Results have indicated that no CoCs have been detected in any of these wells.

In conjunction with, and following the completion of the Tier II Assessment, there was as-needed vacuum skimming of any residual product atop standing water on the western side of US Highway 17, as well as monitoring and replaced of oil absorbent booms. ATC performed an aggressive fluid/vapor recovery (AFVR) treatment at SCDHEC's request on 12/17/18, resulting in the removal of 266 gallons of product.

Subsequent to the Tier II Assessment, SCDHEC, on 01/21/19 issued a directive for additional assessment and installation of recovery wells, followed by multiple AFVR events. Seven additional shallow monitoring wells were installed, as well as an additional six recovery wells. AFVR events were performed on several recovery and monitoring wells within the US Highway 17 median on the following

dates: 1/25/19, 2/19/19, 3/4/19, 3/18/19, and 4/8/19, and in on-site wells on 3/14/19. A total of 2,234 gallons of product was removed during these six events, yielding the total free product removal effort since initiation of emergency abatement procedures at 3,503 gallons.

Based on the findings to date, SCDHEC ranked the release as a category 1E, and determined that the next course of action was Active Corrective Action (ACA). SCDHEC, in consultation with Circle K, solicited performance-based lump sum bids for ACA from interested qualified UST contractors in a bid package dated 11/22/19. On 1/30/20, ATC was selected as the responsive winning contractor, and cost agreement no. 61117 was issued to Circle K for payment of ACA funding. Following acceptance of the contract, Circle K and SCDHEC directed ATC to perform a pre-ACA Groundwater Monitoring Event. This assessment was conducted in March of 2020, with results reported in the Initial Groundwater Monitoring Report dated 4/13/20. SCDHEC subsequently issued a Corrective Action Plan "Notice To Proceed" on 4/16/20.

ATC engaged its primary subcontractor, AST Environmental, Inc, of Midway, Kentucky (AST) to design and implement the injection of the carbon-based injectate, BOS 200®. AST is a licensed vendor of the BOS 200® system, with the patent held by RPI, Inc. (RPI) of Golden, Colorado. RPI supplies the raw materials and provides technical support. In October 2020, ATC and AST performed a Remedial Design Characterization (RDC) to collect additional soil and water quality data, to design the optimal grid spacing, injection intervals, concentrations and application rates. The RDC included the sampling of existing monitoring wells, gauging free product thickness where present, and collection of soil and groundwater samples from soil borings and temporary wells installed in the area of concern. Based on the results, AST proposed a dual phased approach, with Phase I focused on areas with LNAPL and benzene and total

volatile petroleum hydrocarbon results in soil in excess of 15 milligrams per Kilogram (mg/Kg) and 4,000 mg/Kg, respectively.

Phase I injection activities were undertaken in the period between February 18 and April 8, 2021. Phase I involved the injection of the BOS 200 injectate through a total of 560 injection points spread out over seven identified treatment zones, both on the Circle K site, and off-site in the median of US Highway 17 and on the north shoulder of US 17. A total volume of 35,500 pounds of the BOS 200® injectate were applied (along with 35,400 pounds of supplemental gypsum, 17,100 pounds of magnesium sulfate, 10,700 pounds of food-grade starch, and 605 pounds of yeast extract), with each injection point receiving injectate through either two or three discrete depth intervals, staggered to achieve maximum contact. Following completion of Phase I injections, Atlas (formerly ATC) arranged for AFVR treatments on the recovery wells and monitoring wells which continued to contain LNAPL (including sub-grade road tar that had been dissolved and mobilized by the gasoline release) between April 27 and 29, 2021. A total of 2,300 gallons of product and contact water were removed.

3.0 SITE EVALUATION

3.1 Free Product Measurements, Groundwater Flow

Water levels in all monitoring wells associated with the site were measured prior to sampling activities on September 19 and 20, 2023. Water levels were measured with decontaminated electronic water-level indicators, from the top of PVC casing to the water surface in each well. Wells within the area of concern (identified as wells with previously assessed LNAPL and significantly high dissolved constituent concentrations) were measured with a decontaminated oil/water interface probe, as these wells had the greatest potential to contain free-phase petroleum product atop the water table. Depths to water (and product, if encountered) were subtracted from the elevation datum at the top of each well's PVC casing to determine the water table elevation. Well construction details and historic water-level and product-level data since November 2018 is presented as **Table 1**. The groundwater elevations were posted on the site base map and used to construct the groundwater flow maps for the site. Off-site monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38, all located beyond the site itself on property north of US Highway 17, were re-drilled and replaced on July 31, 2023. Well replacement activities are discussed in **Section 4.0**.

Two distinct hydrogeologic zones have been identified at the site by previous investigations. They are: shallow water table and deep surficial aquifer. Groundwater flow maps for the shallow surficial aquifer and the deeper portion of the surficial aquifer are presented as **Figure 3** and **Figure 4**, respectively.

Both groundwater flow maps indicate that the dominant direction of groundwater flow across the site is north to northwest, consistent with historical interpretations. Water levels in wells within the site itself appeared lower on the

site than in March 2023. The water levels in wells generally west and northwest of the site were slightly higher than in March 2023. The horizontal gradient, as calculated between wells 01589 MW-2 and 01589 MW-27, is $(16.53-14.46)/470$ ft., or 0.004. The vertical hydraulic gradient, as measured between paired shallow and deep cased wells, was upward between well pairs 01589 MW-1/DW-1 (0.64 ft.), downward between 01589 DMW-2/01589 MW-22 (0.03 ft.), and 01589 MW-24/01589 DW-3 (0.37 ft.), and upward between 01589 MW-16/01589 DW-4 (1.65 ft.), and 01589 MW-34/01589 DMW-5 (0.08 ft.).

During this event, LNAPL was only encountered in monitoring well 01589 MW-33 (0.01 ft.) and recovery wells 01589 RW-11A and 01589 RW-11B. The LNAPL encountered in recovery wells 01589 RW-11A and 01589 RW-11B was black and viscous, and appeared to be a mixture of gasoline product and tar dissolved by the gasoline from the asphalt subbase of the highway. Thickness measurements in these wells could only be approximated using a bailer and was estimated to be 0.08 feet (01589-RW-11A) and 0.3 feet (01589 RW-11B).

3.2 Groundwater Sampling and Analyses

Groundwater samples were collected from monitoring wells for analysis of chemicals of concern (COCs) on September 19 and 20, 2023. Samples were collected from all existing monitoring wells that were free of LNAPL at the site, including those with no established site-specific target levels (SSTLs). Samples were also collected from recovery wells with no measurable LNAPL. As discussed in Section 4.0 of this report, off-site monitoring wells 01589 MW-26R, 01589 MW-29R, 01589 MW-37R, and 01589 MW-38R were installed to replace the original wells destroyed by re-development activities.

Monitoring wells in which the static water levels were above the screened interval were purged of standing water prior to sample collection. These included wells 01589 MW-9, 01589 MW-10, 01589 MW-11, 01589 MW-17, 01589 MW-21, 01589 MW-25, 01589 MW-26R, 01589 MW-29R, 01589 MW-36, 01589 MW-37R, 01589 MW-38R and the deep cased wells 01589 DMW-1 through 01589 DMW-5. Removal of a minimum of one up to five well casing volumes was performed on these wells. Measurements of field parameters (temperature, pH, specific conductivity, dissolved oxygen, turbidity) were made and recorded prior to sample collection. Wells in which the static water table was situated within the well's screened interval were sampled without purging, although a measurement of field parameters was made and recorded prior to sample collection. Field data information sheets for all sampled wells are presented in **Appendix A**. Water generated during pre-sample purging was placed into steel 55-gallon drums and removed for disposal at a SCDHEC-approved facility on September 26, 2023. A manifest for disposal is included in **Appendix B**. Water samples were collected with dedicated and disposable PVC bailers, with water transferred into laboratory-supplied 40 milliliter (ml) VOA bottles contained approximately 2 ml of preservative (hydrochloric acid). The bottles were filled so that there was no air headspace in the containers when sealed, as per EPA protocol. Bottles were sealed, labelled, and placed in an iced cooler to maintain temperatures as close as possible to 4°C. Duplicate samples were collected from wells 01589 MW-3 (DUP-1), 01589 MW-32 (DUP-2), and 01589 MW-36 (DUP-3) concurrent with collection of the original samples. Field blanks were collected on September 19 and 20, 2023 by introduction of de-ionized water provided by the laboratory into an unused bailer and transferring the water into sample containers. Trip blanks and temperature blanks were also shipped to the laboratory for the sampling event. The water samples for all sample dates were transported via overnight shipper to a SC-certified analytical laboratory (SGS North America, Inc., Orlando, FL) for analysis. Standard chain-of-custody procedures were followed throughout the sampling process.

Groundwater samples from monitoring wells and quality control samples (duplicates, field, and trip blanks) were analyzed in accordance with the CAP for the following COCs: benzene, toluene, ethylbenzene, total xylenes (m, o and p isomers), naphthalene, methyl tert-butyl ether (MTBE), 1,2 dichloroethane (1,2 DCA) and the eight SCDHEC-regulated oxygenates, by SW-846 Method 8260B.

Results are summarized for monitoring wells in **Table 2**. **Table 3** presents an historic summary since initiation of assessment and remediation for petroleum constituents (benzene, toluene, ethylbenzene, total xylenes, naphthalene) and additives (MTBE, and 1,2-dichloroethane), along with applicable site-specific target levels (SSTL's). Maps illustrating the extent of LNAPL and the isopleths for benzene (**Figure 5**), toluene (**Figure 6**), ethylbenzene (**Figure 7**), total xylenes (**Figure 8**), MTBE (**Figure 9**), and naphthalene (**Figure 10**) are attached.

The laboratory analytical report for groundwater sampling data, including chain-of-custody documentation and quality assurance, is presented in **Appendix C**.

3.3 Surface Water Sampling and Analysis

Surface water sampling was also performed on September 19 and 20, 2023, from the established sampling points set out in the CAP. Surface water sample points are indicated on **Figure 11**, and includes sample locations situated northeast, north, and west of the area of investigation. All sample locations were able to be sampled at this time. Samples were collected using either a Teflon dipper or a PVC bailer. Where deep pooled water was encountered the sample was collected through the entire depth profile. No duplicate samples were collected for surface water samples.

Surface water samples were analyzed by SGS in accordance with the CAP for the following COCs: BTEX, naphthalene, MTBE, and 1,2 DCA, and the eight SCDHEC - regulated oxygenates by SW-846 Method 8260B. Results are presented on **Table 6** and on **Figure 11**.

The laboratory analytical report for surface water sampling data, including chain-of-custody documentation and quality assurance, is presented in **Appendix C**.

3.4 Water Well Sampling and Analysis

Selected water supply wells were sampled in accordance with the CAP. Well locations 01589 WSW-12, and WSW-13 were accessed for sampling on September 20, 2023. Well 01589 WSW-16, included in the sampling program, could not be accessed due to a locked fence. The owner or occupant of the site could not be reached, so this well was not sampled.

Water wells were sampled through existing plumbing at the well head after allowing an approximate five-minute purge of the system before sample collection. A quality control duplicate (DUP-1) was collected from water well 01589 WSW-12 on September 20, 2023. A field blank (01589 WSW-FB) was collected on the same day. A trip blank accompanied the sample shipper.

Water well samples and quality control samples (duplicates, blanks) were submitted to Pace Analytical Services, Inc. of Huntersville, NC for analysis of the following COCs: BTEX, naphthalene, MTBE, and 1,2 DCA by EPA Method 524.2 (drinking water), and the eight SCDHEC-regulated oxygenates by SW-846 Method 8260B. Results are presented on **Table 5** and in **Figure 12**. The laboratory analytical report for water well sampling data, including chain-of-custody documentation and quality assurance, is presented in **Appendix C**.

3.5 Data Quality Objectives

To ensure adherence to the methodologies described in the QAPP Addendum, a Contractor Checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in **Appendix D**. The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of

the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

3.5.1 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. Field duplicate samples were collected from monitoring wells 01589 MW-3, 01589 MW-32, and 01589 MW-36, and water supply well 01589 WSW-12. The duplicates were submitted for analysis of the same parameters as the original samples. The RPD was calculated using the formula:

$$RPD (\%) = \text{Absolute value of } \left(\frac{(C_S - C_D)}{(C_S + C_D) + 2} \right) \times 100$$

Where: C_S = Concentration of the sample

C_D = Concentration of the duplicate sample

The RPDs were compared to the 20% RPD limit established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in **Table 8** for monitoring and recovery wells, and **Table 9** for water wells. The 20% RPD was exceeded for four parameters between 01589 MW-32 and its duplicate (benzene at 88%, toluene at 40%, ethylbenzene at 86%, xylenes at 53%) and one parameter between 01589 MW-36 and its duplicate (ethylbenzene at 28%). In the comparison between sample 01589 MW-32 and its duplicate, the exceedances were noted where values reported were 'J'-flagged or estimated values between the method detection limit and the reporting level.

3.3.2 Bias

Bias analysis of the data can indicate accuracy of the laboratory measurement system. The results of the analysis of the field blanks indicate that there were no sources of error in the sampling process, preservation, handling, sample preparation and analytical techniques. No deficiencies were noted. The results of

the bias analysis of the field and trip blanks are included in **Tables 8, 9** and **10**, respectively.

3.3.3 Representativeness

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the Programmatic QAPP criteria for representativeness.

3.3.4 Completeness

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain LNAPL, was accessible, and was not dry, was sampled. The purpose of the sampling event was to monitor the petroleum impact to groundwater.

3.3.5 Comparability

The results of laboratory analyses of groundwater at the site between 2018 and this event are included in this report. The samples were collected using similar field protocols, analyzed using the same EPA Methods, and the data are reported in micrograms per liter ($\mu\text{g/L}$) to allow for easy comparison. The comparability criteria are met.

3.3.6 Method Sensitivity

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in **Tables 8, 9** and **10**, respectively. The following samples required dilutions due to high

concentrations of certain constituents, so the sensitivity limits were not attained: samples from 01589 MW-1, 01589 MW-2, 01589 MW-6, 01589 MW-12, 01589 MW-14, 01589 MW-15, 01589 MW-29R, 01589 RW-1, 01589 RW-2, 01589 RW-5, 01589 RW-6, 01589 RW-7, 01589 RW-9, 01589 RW-10, and 01589 RW-12.

4.0 PERFORMANCE METRICS

4.1 Remediation System Operation

During the period between the prior CASE report submittal and this reporting period, the following remedial actions occurred at the site.

- > AFVR treatments on selected wells were performed between July 17 and 19, 2023. An AFVR event over an approximately 8-hour duration was performed on wells 01589 RW-1 (0.04 ft. product) and 01589 MW-1 (no measurable product), followed by an approximately 8-hour event on wells 01589 MW-6 (0.49 ft. product), 01589 RW-5 (0.71 ft. product), 01589 RW-6 (0.13 ft. product), and 01589 RW-9 (0.19 ft. product), followed by an approximately 8-hour event on wells 01589 RW-11A (less than 0.1 ft. product), 01589 RW-11B (less than 0.5 ft. product) and 01589 RW-12 (0.03 ft. product). A total of 3,350 gallons of product and petroleum-impacted water were removed for disposal. Following termination of AFVR treatments, none of the treated wells contained measurable free product. The AFVR reports for this period are included in **Appendix F**.
- > On July 31, 2023, several off-site monitoring wells which had been destroyed by site development on the north side of Savannah Highway were re-drilled and installed. These wells include 01589 MW-26R, 01589 MW-29R, 01589 MW-37R, and 01589 MW-39R. These well were placed as close as possible to the presumed locations of the destroyed wells (01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-39). The original wells were installed with above-grade (stick-up) casings which were destroyed by heavy equipment. Therefore, the replacement wells were installed with at-grade steel manholes and concrete pads. These wells were installed to terminal depths of 15 feet below grade, with 10 feet of 2-inch diameter 10-slot PVC screen. After installation, the wells were developed until the water was clear and indicator parameters had stabilized. Well

- record forms and development logs are included in **Appendix E**. Additionally, damaged wells 01589 MW-27, and 01589 MW-31 were repaired. These wells, which had stick-up casings that had been bent from the vertical by collision with heavy equipment, were repaired by removal of the stick-up casing, repair or replacement of PVC casing, and installation of at-grade manholes surrounded by two-foot square concrete well pads. All replaced and repaired wells were re-surveyed to the existing elevation datum.
- > AFVR treatments on selected wells were performed between August 28 and 30, 2023. An AFVR event over an approximately 6-hour duration was performed on wells 01589 RW-1 (0.01 ft. product), 01589 RW-2 (no product), 01589 RW-7 (0.01 ft. product) and 01589 MW-1 (no product), followed by an approximately 2-hour event on wells 01589 MW-32 (no product) and 01589 MW-33 (0.21 ft. product), followed by an approximately 8-hour event on wells 01589 MW-6 (0.03 ft. product), 01589 RW-5 (0.4 ft. product), 01589 RW-6 (no product), and 01589 RW-9 (no product), followed by an approximately 4-hour event on wells 01589 RW-11A (less than 0.2 ft. product), 01589 RW-11B (less than 0.5 ft. product) and 01589 RW-12 (no product). A total of 3,519 gallons of product and petroleum-impacted water were removed for disposal. Following termination of AFVR treatments, none of the treated wells contained measurable free product. The AFVR reports for this period are included in **Appendix F**.

4.2 Groundwater COC Evaluation

Based on the results of the CASE sampling performed for the 2nd half of 2023, the following observations are presented:

- > Water levels on the site were found to be on average lower than in March 2023. However, water levels in several wells on the west and southwest sides of the site area were higher than in March 2023. Groundwater flow is

to the north-northwest, as measured in both water table wells and in the deeper cased wells, in accordance with historic trends.

- > Free product was encountered only in well 01589 MW-33, located southeast of the UST tank hold, at a measured thickness of only 0.01 feet. There is residual emulsified product in recovery wells 01589 RW-11A and 01589 RW-11B, which intercept product that has been in contact with the asphaltic subbase of Savannah Highway. During multiple AFVR treatments performed in July and August of 2023, a total of 6,869 gallons of product and petroleum contact water was removed.
- > Wells in which one or more COC are above respective SSTLs during this reporting period include 01589 MW-1, 01589 MW-2, 01589 MW-3, 01589 MW-6, 01589 MW-12, 01589 MW-15, 01589 MW-25, 01589 MW-26R, 01589 MW-29R, 01589 MW-32, 01589 MW-38R, 01589 RW-4, and 01589 RW-12. In general, COC levels show a decreasing trend relative to previous data. COC levels in wells 01589 MW-7, 01589 MW-12, 01589 MW-13, 01589 MW-15, and 01589 MW-32 have either decreased below respective SSTLs relative to historic data trends or have shown substantial reductions.
- > Trace levels of certain COCs were detected in deep cased wells 01589 DW-1 and 01589 DW-3. The MTBE level in 01589 DW-3 (8.6 µg/L) was slightly above its SSTL of 5 µg/L.
- > COCs were below detection in water supply well samples collected during this reporting period. Well WSW-16, located west of the site area, was not able to be sampled during this event due to the well being in a locked area with no contact with the owner possible.
- > All established surface water locations were able to be sampled during this period. No CoCs were present above detectable levels except a trace of naphthalene (5.2J µg/L) in sample 01589 SW-9.
- > The precision analysis performed between the sample from well 01589 MW-32 and its duplicate (DUP-2) indicates that the variance for benzene (repeatability) exceeds the 20% QAPP guidance. Therefore, benzene in this

well must be considered an estimate, and the benzene level in fact may slightly exceed the SSTL calculated for this well. The repeatability limit was exceeded for other parameters as well (toluene, ethylbenzene, xylenes). A slight exceedance of the 20% limit was also indicated for ethylbenzene between the sample from well 01589 MW-36 and its duplicate (DUP-3).

- > Monitoring wells which had been destroyed during site development work on the portion of the site area north of Savannah Highway were replaced during this reporting period. Two other wells with damaged surface casings were also repaired, and all wells were re-surveyed to the existing datum. Therefore, all wells associated with monitoring for this site have been restored to useability.

The calculation of dissolved COC mass reduction is presented as **Table 11**. The calculated reduction of current dissolved COC mass relative to initial mass above SSTL mass is estimated at **34.41%** for this reporting period. However, the following comments concerning this calculation are offered: (1) Well 01589 MW-33 contained a thin free product layer, therefore COC levels from 3/29/23 were used as a default; (2) Water well 01589 WSW-16 was inaccessible during this event, so values from 3/28/23 were used; (3) The detection of ethanol in the sample from 01589 RW-12 at 112,000 µg/L skewed the calculation, resulting in the 34.41 % reduction. Ethanol has never been detected in this well, even estimated below the reporting level of up to 10,000 µg/L. If this value is anomalous or laboratory error, the concentration reduction percentage is raised to **71.27%**.

5.0 SUMMARY

During this reporting period, Atlas sampled monitoring wells associated with the site, all nine surface water locations and two of the four water wells specified in the CAP. (Water well 01589 WSW-15 has been determined to be decommissioned and has been removed from the sampling program, and 01589 WSW-16 was not accessible during this event). Four off-site monitoring wells were replaced, and two damaged off-site wells were repaired.

Results indicate a substantial removal of free product and a calculated removal of 34.41% (which may be skewed due to an anomalous detection of ethanol in well 01589 RW-12).

Activities planned for the upcoming period before the next sampling event include additional AFVR treatments to continue to remove residual free product. The emulsified product in wells 01589 RW-11A and 01589 RW-11B will be removed by insertion of oil-absorbent “pigs” as necessary.

In accordance with the sampling schedule presented in the CAP, the first semi-annual sampling of all wells will be conducted in March 2024, and a CASE report of findings will be submitted.

TABLES

Table 1
Groundwater Elevation Data
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-1	11/22/2018	21.62	2.0 - 12.0	12.0	NM	4.82	0.00	16.80
	2/26/2019				NM	4.30	0.00	17.32
	3/11/2019				NM	4.53	0.00	17.09
	4/25/2019				NM	5.24	0.00	16.38
	7/8/2019				NM	4.17	0.00	17.45
	3/2/2020				NM	2.67	0.00	18.95
	4/20/2021				NM	5.09	0.00	16.53
	10/13/2021				NM	3.72	0.00	17.90
	3/29/2022				NM	5.93	0.00	15.69
	9/28/2022				NM	4.14	0.00	17.48
	3/28/2023				NM	4.42	0.00	17.20
	9/18/2023				NM	5.75	0.00	15.87
01589 MW-2	11/22/2018	21.59	2.0 - 12.0	12.0	NM	4.93	0.00	16.66
	2/12/2019				NM	3.37	0.00	18.22
	2/26/2019				NM	3.83	0.00	17.76
	3/11/2019				NM	4.07	0.00	17.52
	4/25/2019				NM	4.99	0.00	16.60
	7/8/2019				NM	3.78	0.00	17.81
	3/2/2020				2.28	2.30	0.02	19.29
	4/20/2021				NM	4.87	0.00	16.72
	10/13/2021				NM	3.41	0.00	18.18
	3/29/2022				NM	5.75	0.00	15.84
	9/28/2022				NM	3.94	0.00	17.65
	3/28/2023				NM	4.17	0.00	17.42
9/18/2023	NM	5.06	0.00	16.53				
01589 MW-3	11/22/2018	22.94	2.0 - 12.0	12.0	NM	5.47	0.00	17.47
	2/12/2019				NM	3.81	0.00	19.13
	2/26/2019				NM	4.29	0.00	18.65
	3/11/2019				NM	4.55	0.00	18.39
	4/25/2019				NM	5.31	0.00	17.63
	7/8/2019				NM	4.80	0.00	18.14
	3/2/2020				NM	3.10	0.00	19.84
	4/20/2021				NM	4.70	0.00	18.24
	10/13/2021				NM	4.01	0.00	18.93
	3/29/2022				NM	6.40	0.00	16.54
	9/28/2022				NM	4.38	0.00	18.56
	3/28/2023				NM	4.54	0.00	18.40
9/18/2023	NM	3.54	0.00	19.40				
01589 MW-4	11/22/2018	22.80	2.0 - 12.0	12.0	NM	4.70	0.00	18.10
	2/26/2019				NM	4.46	0.00	18.34
	3/11/2019				NM	4.67	0.00	18.13
	4/25/2019				NM	5.33	0.00	17.47
	7/8/2019				NM	3.77	0.00	19.03
	3/2/2020				NM	2.73	0.00	20.07
	4/20/2021				NM	4.85	0.00	17.95
	10/13/2021				NM	3.41	0.00	19.39
	3/29/2022				NM	6.15	0.00	16.65
	9/27/2022				NM	4.16	0.00	18.64
	3/28/2023				NM	4.60	0.00	18.20
	9/18/2023				NM	3.54	0.00	19.26
01589 MW-5	11/22/2018	23.57	2.0 - 12.0	12.0	NM	5.19	0.00	18.38
	2/26/2019				NM	4.46	0.00	19.11
	3/11/2019				NM	4.74	0.00	18.83
	4/25/2019				NM	5.41	0.00	18.16
	7/8/2019				NM	4.30	0.00	19.27
	3/2/2020				NM	3.13	0.00	20.44
	4/20/2021				NM	4.81	0.00	18.76
	10/13/2021				NM	3.68	0.00	19.89
	3/29/2022				NM	6.44	0.00	17.13
	9/27/2022				NM	4.33	0.00	19.24
	3/28/2023				NM	4.61	0.00	18.96
	9/18/2023				NM	5.79	0.00	17.78
01589 MW-6	11/22/2018	19.33	2.0 - 12.0	12.0	2.30	3.06	0.76	16.83
	2/12/2019				2.22	2.16	0.06	17.21
	2/26/2019				2.77	2.96	0.19	16.51
	3/11/2019				0.00	3.02	0.00	16.31
	4/25/2019				3.66	3.72	0.06	15.57
	7/8/2019				2.62	2.71	0.09	16.55
	3/2/2020				1.16	2.25	1.09	16.27
	4/20/2021				3.47	3.62	0.15	15.60
	10/13/2021				2.00	2.32	0.32	16.77
	3/30/2022				4.39	4.39	0.00	14.94
	9/28/2022				2.55	2.79	0.24	16.36
	3/28/2023				2.71	2.98	0.27	16.15
9/18/2023	3.48	3.48	0.00	15.85				
01589 MW-7	11/22/2018	19.55	2.0 - 12.0	12.0	NM	2.98	0.00	16.57
	2/12/2019				NM	2.45	0.00	17.10
	2/26/2019				NM	2.84	0.00	16.71
	3/11/2019				NM	2.99	0.00	16.56
	4/25/2019				NM	3.61	0.00	15.94
	7/8/2019				NM	2.44	0.00	17.11
	3/2/2020				NM	1.80	0.00	17.75
	4/20/2021				NM	3.96	0.00	15.59
	10/14/2021				NM	2.33	0.00	17.22
	3/30/2022				NM	4.18	0.00	15.37
	9/28/2022				NM	2.81	0.00	16.74
	3/29/2023				NM	2.93	0.00	16.62
9/18/2023	NM	2.72	0.00	16.83				

btoc = below top of casing
 NM = no measurable product present
 NA = not applicable
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)
 * = product thickness measured through use of a bailer

Table 1
Groundwater Elevation Data
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-8	11/22/2018	19.14	2.0 - 12.0	12.0	NM	3.05	0.00	16.09
	2/26/2019				NM	2.80	0.00	16.34
	3/11/2019				NM	2.93	0.00	16.21
	4/25/2019				NM	3.64	0.00	15.50
	7/8/2019				NM	2.52	0.00	16.62
	3/2/2020				NM	1.52	0.00	17.62
	4/20/2021				NM	3.71	0.00	15.43
	10/14/2021				NM	2.21	0.00	16.93
	3/30/2022				NM	3.94	0.00	15.20
	9/28/2022				NM	3.09	0.00	16.05
	3/29/2023				NM	3.04	0.00	16.10
	9/18/2023				NM	2.13	0.00	17.01
	01589 MW-9				11/22/2018	16.50	2.0 - 12.0	12.0
2/26/2019		NM	2.77	0.00	13.73			
3/11/2019		NM	2.82	0.00	13.68			
4/25/2019		NM	3.33	0.00	13.17			
7/8/2019		NM	2.30	0.00	14.20			
3/2/2020		NM	2.03	0.00	14.47			
4/20/2021		well not found						
10/14/2021		NM	2.37	0.00	14.13			
3/30/2022		NM	3.35	0.00	13.15			
9/27/2022		NM	3.13	0.00	13.37			
3/29/2023		NM	3.00	0.00	13.50			
9/18/2023		NM	1.55	0.00	14.95			
01589 MW-10		11/22/2018	17.63	2.0 - 12.0	12.0			
	2/26/2019	NM				3.04	0.00	14.59
	3/11/2019	NM				3.04	0.00	14.59
	4/25/2019	NM				3.61	0.00	14.02
	7/8/2019	NM				2.73	0.00	14.90
	3/2/2020	NM				2.26	0.00	15.37
	4/20/2021	NM				3.92	0.00	13.71
	10/14/2021	NM				2.66	0.00	14.97
	3/30/2022	NM				3.53	0.00	14.10
	9/27/2022	NM				3.53	0.00	14.10
	3/29/2023	NM				3.13	0.00	14.50
	9/18/2023	NM				1.74	0.00	15.89
	01589 MW-11	11/22/2018				18.13	2.0 - 12.0	12.0
2/26/2019		NM	3.03	0.00	15.10			
3/11/2019		NM	3.09	0.00	15.04			
4/25/2019		NM	3.76	0.00	14.37			
7/8/2019		NM	2.74	0.00	15.39			
3/2/2020		NM	2.36	0.00	15.77			
4/20/2021		NM	4.03	0.00	14.10			
10/14/2021		NM	2.54	0.00	15.59			
3/29/2022		NM	3.56	0.00	14.57			
9/27/2022		NM	3.78	0.00	14.35			
3/29/2023		NM	3.21	0.00	14.92			
9/18/2023		NM	1.81	0.00	16.32			
01589 MW-12		11/22/2018	21.38	2.0 - 12.0	12.0			
	2/12/2019	NM				3.70	0.00	17.68
	2/26/2019	NM				4.15	0.00	17.23
	3/11/2019	NM				4.36	0.00	17.02
	4/25/2019	NM				5.28	0.00	16.10
	7/8/2019	NM				3.97	0.00	17.41
	3/2/2020	NM				2.17	0.00	19.21
	4/20/2021	NM				5.19	0.00	16.19
	10/13/2021	NM				3.54	0.00	17.84
	3/29/2022	NM				5.83	0.00	15.55
	9/28/2022	NM				4.24	0.00	17.14
	3/28/2023	NM				4.30	0.00	17.08
	9/18/2023	NM				4.80	0.00	16.58
01589 MW-13	11/22/2018	20.48	2.0 - 12.0	12.0	NM	4.07	0.00	16.41
	2/12/2019				NM	3.11	0.00	17.37
	2/26/2019				NM	3.54	0.00	16.94
	3/11/2019				NM	3.71	0.00	16.77
	4/25/2019				NM	4.70	0.00	15.78
	7/8/2019				NM	3.26	0.00	17.22
	3/2/2020				NM	1.95	0.00	18.53
	4/20/2021				NM	4.61	0.00	15.87
	10/13/2021				NM	2.74	0.00	17.74
	3/29/2022				NM	5.21	0.00	15.27
	9/27/2022				NM	3.66	0.00	16.82
	3/28/2023				NM	3.79	0.00	16.69
	9/18/2023				NM	3.73	0.00	16.75
01589 MW-14	11/22/2018	23.45	2.0 - 12.0	12.0	NM	5.96	0.00	17.49
	2/26/2019				NM	4.60	0.00	18.85
	3/11/2019				NM	4.85	0.00	18.60
	4/25/2019				NM	5.92	0.00	17.53
	7/8/2019				NM	5.10	0.00	18.35
	3/2/2020				NM	3.17	0.00	20.28
	4/20/2021				NM	5.40	0.00	18.05
	10/13/2021				NM	4.20	0.00	19.25
	3/29/2022				NM	6.69	0.00	16.76
	9/27/2022				NM	4.95	0.00	18.50
	3/28/2023				NM	4.92	0.00	18.53
	9/18/2023				NM	6.78	0.00	16.67

btoc = below top of casing
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 * = product thickness measured through use of a bailer

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Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-15	11/22/2018	22.82	2.0 - 12.0	12.0	NM	5.48	0.00	17.34
	2/26/2019				NM	4.41	0.00	18.41
	3/11/2019				NM	4.89	0.00	17.93
	4/25/2019				NM	5.95	0.00	16.87
	7/8/2019				NM	4.70	0.00	18.12
	3/2/2020				NM	3.05	0.00	19.77
	4/20/2021				NM	5.67	0.00	17.15
	10/13/2021				NM	4.12	0.00	18.70
	3/29/2022				NM	6.63	0.00	16.19
	9/27/2022				NM	4.71	0.00	18.11
	3/28/2023				NM	4.97	0.00	17.85
	9/18/2023				NM	5.84	0.00	16.98
	01589 MW-16				11/22/2018	21.18	2.0 - 12.0	12.0
2/12/2019		NM	2.89	0.00	18.29			
2/26/2019		NM	3.30	0.00	17.88			
3/11/2019		NM	3.59	0.00	17.59			
4/25/2019		NM	4.44	0.00	16.74			
7/8/2019		NM	3.04	0.00	18.14			
3/2/2020		NM	2.03	0.00	19.15			
4/20/2021		NM	4.45	0.00	16.73			
10/13/2021		NM	2.61	0.00	18.57			
3/29/2022		NM	5.33	0.00	15.85			
9/27/2022		NM	3.43	0.00	17.75			
3/28/2023		NM	3.61	0.00	17.57			
9/18/2023		NM	3.24	0.00	17.94			
01589 MW-17	11/22/2018	20.96	2.0 - 12.0	12.0	NM	4.04	0.00	16.92
	2/26/2019				NM	3.40	0.00	17.56
	3/11/2019				NM	3.68	0.00	17.28
	4/25/2019				NM	4.75	0.00	16.21
	7/8/2019				NM	3.09	0.00	17.87
	3/2/2020				NM	1.75	0.00	19.21
	4/20/2021				NM	4.65	0.00	16.31
	10/13/2021				NM	2.74	0.00	18.22
	3/29/2022				NM	5.39	0.00	15.57
	9/27/2022				NM	3.66	0.00	17.30
	3/28/2023				NM	3.77	0.00	17.19
	9/18/2023				NM	1.62	0.00	19.34
	01589 MW-18				11/22/2018	20.05	2.0 - 12.0	12.0
2/26/2019		NM	3.44	0.00	16.61			
3/11/2019		NM	3.56	0.00	16.49			
4/25/2019		NM	4.59	0.00	15.46			
7/8/2019		NM	3.29	0.00	16.76			
3/2/2020		NM	3.07	0.00	16.98			
4/20/2021		NM	4.62	0.00	15.43			
10/13/2021		NM	2.68	0.00	17.37			
3/29/2022		NM	5.17	0.00	14.88			
9/27/2022		NM	3.64	0.00	16.41			
3/28/2023		NM	3.73	0.00	16.32			
9/18/2023		NM	3.34	0.00	16.71			
01589 MW-19		11/22/2018	19.82	2.0 - 12.0	12.0			
	2/26/2019	NM				2.74	0.00	17.08
	3/11/2019	NM				2.70	0.00	17.12
	4/25/2019	NM				4.71	0.00	15.11
	7/8/2019	NM				3.05	0.00	16.77
	3/2/2020	NM				1.86	0.00	17.96
	4/20/2021	NM				4.72	0.00	15.10
	10/13/2021	NM				2.30	0.00	17.52
	3/29/2022	NM				5.22	0.00	14.60
	9/27/2022	NM				3.73	0.00	16.09
	3/28/2023	NM				3.73	0.00	16.09
	9/18/2023	NM				3.10	0.00	16.72
	01589 MW-20	11/22/2018				18.53	2.0 - 12.0	12.0
2/26/2019		NM	2.60	0.00	15.93			
3/11/2019		NM	2.76	0.00	15.77			
4/25/2019		NM	3.74	0.00	14.79			
7/8/2019		NM	2.19	0.00	16.34			
3/2/2020		NM	0.80	0.00	17.73			
4/20/2021		NM	3.78	0.00	14.75			
10/13/2021		NM	1.48	0.00	17.05			
3/29/2022		NM	4.13	0.00	14.40			
9/28/2022		NM	2.87	0.00	15.66			
3/28/2023		NM	2.87	0.00	15.66			
9/18/2023		NM	2.13	0.00	16.40			
01589 MW-21		11/22/2018	16.16	2.0 - 12.0	12.0			
	2/26/2019	NM				0.00	0.00	16.16
	3/11/2019	NM				0.99	0.00	15.17
	4/25/2019	NM				1.24	0.00	14.92
	7/8/2019	NM				0.25	0.00	15.91
	3/2/2020	NM				0.00	0.00	16.16
	4/20/2021	NM				2.35	0.00	13.81
	10/14/2021	NM				0.50	0.00	15.66
	3/28/2022	NM				2.32	0.00	13.84
	9/27/2022	NM				1.50	0.00	14.66
	3/29/2023	NM				1.31	0.00	14.85
	9/18/2023	NM				0.26	0.00	15.90

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4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)				
01589 MW-22	11/22/2018	18.79	2.0 - 12.0	12.0	NM	3.96	0.00	14.83				
	2/26/2019				NM	3.97	0.00	14.82				
	3/11/2019				NM	4.10	0.00	14.69				
	4/25/2019				NM	5.03	0.00	13.76				
	7/8/2019				NM	3.56	0.00	15.23				
	3/2/2020				NM	2.17	0.00	16.62				
	4/20/2021				NM	5.16	0.00	13.63				
	10/14/2021				NM	3.03	0.00	15.76				
	3/28/2022				NM	5.19	0.00	13.60				
	9/27/2022				NM	4.28	0.00	14.51				
	3/29/2023				NM	4.26	0.00	14.53				
	9/18/2023				NM	3.07	0.00	15.72				
	01589 MW-23				11/22/2018	22.36	5.0 - 15.0	15.0	NM	7.61	0.00	14.75
2/26/2019		NM	7.33	0.00	15.03							
3/11/2019		NM	7.49	0.00	14.87							
4/25/2019		NM	8.50	0.00	13.86							
7/8/2019		NM	7.24	0.00	15.12							
3/2/2020		NM	4.89	0.00	17.47							
4/20/2021		NM	8.71	0.00	13.65							
10/14/2021		NM	6.46	0.00	15.90							
3/29/2022		NM	8.78	0.00	13.58							
9/27/2022		NM	7.82	0.00	14.54							
3/29/2023		NM	7.73	0.00	14.63							
9/18/2023		NM	6.87	0.00	15.49							
01589 MW-24		11/22/2018	22.50	5.0 - 15.0	15.0				NM	6.96	0.00	15.54
	2/12/2019	NM				6.46	0.00	16.04				
	2/26/2019	NM				6.81	0.00	15.69				
	3/11/2019	NM				6.99	0.00	15.51				
	4/25/2019	NM				7.97	0.00	14.53				
	7/8/2019	NM				6.61	0.00	15.89				
	3/2/2020	NM				4.83	0.00	17.67				
	4/20/2021	NM				8.05	0.00	14.45				
	10/15/2021	NM				5.83	0.00	16.67				
	3/29/2022	NM				8.02	0.00	14.48				
	9/27/2022	NM				6.91	0.00	15.59				
	3/29/2023	NM				6.99	0.00	15.51				
	9/18/2023	NM				6.47	0.00	16.03				
01589 MW-25	11/22/2018	16.46	2.0 - 12.0	12.0	NM	0.22	0.00	16.24				
	2/26/2019				NM	1.37	0.00	15.09				
	3/11/2019				NM	1.24	0.00	15.22				
	4/25/2019				NM	1.90	0.00	14.56				
	7/8/2019				NM	0.78	0.00	15.68				
	3/2/2020				NM	0.00	0.00	16.46				
	4/20/2021				NM	1.95	0.00	14.51				
	10/15/2021				NM	0.79	0.00	15.67				
	3/29/2022				NM	2.09	0.00	14.37				
	9/27/2022				NM	1.49	0.00	14.97				
	3/29/2023				NM	1.35	0.00	15.11				
	9/18/2023				NM	0.21	0.00	16.25				
	01589 MW-26				11/22/2018	21.36	5.0 - 15.0	15.0	NM	6.96	0.00	14.40
2/26/2019		NM	6.96	0.00	14.40							
3/11/2019		NM	7.15	0.00	14.21							
4/25/2019		NM	8.37	0.00	12.99							
7/8/2019		NM	6.38	0.00	14.98							
3/2/2020		NM	4.31	0.00	17.05							
4/20/2021		NM	8.60	0.00	12.76							
10/14/2021		NM	5.72	0.00	15.64							
3/28/2022		NM	8.32	0.00	13.04							
9/27/2022		well destroyed										
3/29/2023		well destroyed										
01589 MW-26R		9/19/2023	18.33	5.0 - 15.0	15.0				NM	3.35	0.00	14.98
01589 MW-27		11/22/2018	20.77	5.0 - 15.0	15.0				NM	6.97	0.00	13.80
	2/26/2019	NM				7.31	0.00	13.46				
	3/11/2019	NM				7.44	0.00	13.33				
	4/25/2019	NM				8.31	0.00	12.46				
	7/8/2019	NM				6.70	0.00	14.07				
	3/2/2020	NM				4.74	0.00	16.03				
	4/20/2021	NM				8.52	0.00	12.25				
	10/14/2021	NM				5.86	0.00	14.91				
	3/29/2022	NM				2.94	0.00	17.83				
	9/27/2022	NM				8.24	0.00	12.53				
	3/29/2023	NM				8.23	0.00	12.54				
	9/19/2023	NM				2.97	0.00	14.46				
	01589 MW-28	11/22/2018				18.18	2.0 - 12.0	12.0	NM	5.02	0.00	13.16
2/26/2019		NM	4.93	0.00	13.25							
3/11/2019		NM	5.01	0.00	13.17							
4/25/2019		NM	5.69	0.00	12.49							
7/8/2019		NM	4.81	0.00	13.37							
3/2/2020		NM	3.12	0.00	15.06							
4/20/2021		NM	5.78	0.00	12.40							
10/15/2021		NM	4.12	0.00	14.06							
3/29/2022		NM	5.52	0.00	12.66							
9/27/2022		NM	5.23	0.00	12.95							
3/29/2023		NM	5.04	0.00	13.14							
9/18/2023		NM	3.09	0.00	15.09							

btoc = below top of casing
 NM = no measurable product present
 NA = not applicable
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)
 * = product thickness measured through use of a bailer

Table 1
Groundwater Elevation Data
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)			
01589 MW-29	11/22/2018	22.35	5.0 - 15.0	15.0	NM	7.01	0.00	15.34			
	2/26/2019				NM	6.68	0.00	15.67			
	3/11/2019				NM	6.84	0.00	15.51			
	4/25/2019				NM	4.93	0.00	17.42			
	7/8/2019				NM	6.62	0.00	15.73			
	3/2/2020				NM	4.24	0.00	18.11			
	4/20/2021				NM	8.02	0.00	14.33			
	10/14/2021				NM	5.73	0.00	16.62			
	3/29/2022				NM	8.05	0.00	14.30			
	9/27/2022				NM	6.89	0.00	15.46			
	3/29/2023				well not found						
	01589 MW-29R				9/19/2023	19.87	5.0 - 15.0	15.0	NM	4.25	0.00
01589 MW-30	11/22/2018	18.06	2.0 - 12.0	12.0	NM	3.27	0.00	14.79			
	2/26/2019				NM	3.30	0.00	14.76			
	3/11/2019				NM	3.44	0.00	14.62			
	4/25/2019				NM	4.38	0.00	13.68			
	7/8/2019				NM	2.89	0.00	15.17			
	3/2/2020				NM	1.74	0.00	16.32			
	4/20/2021				NM	4.51	0.00	13.55			
	10/14/2021				NM	2.36	0.00	15.70			
	3/28/2022				NM	4.52	0.00	13.54			
	9/27/2022				NM	3.61	0.00	14.45			
	3/29/2023				NM	3.58	0.00	14.48			
	9/18/2023				NM	2.31	0.00	15.75			
01589 MW-31	11/22/2018	23.28	2.0 - 12.0	12.0	NM	7.64	0.00	15.64			
	2/26/2019				NM	7.58	0.00	15.70			
	3/11/2019				NM	7.69	0.00	15.59			
	4/25/2019				NM	8.55	0.00	14.73			
	7/8/2019				NM	7.21	0.00	16.07			
	3/2/2020				NM	5.91	0.00	17.37			
	4/20/2021				NM	8.78	0.00	14.50			
	10/15/2021				NM	6.73	0.00	16.55			
	3/29/2022				NM	7.02	0.00	16.26			
	9/27/2022				NM	7.82	0.00	15.46			
	3/29/2023				NM	7.71	0.00	15.57			
	9/18/2023				NM	2.76	0.00	17.03			
01589 MW-32	2/26/2019	22.80	3.0-13.0	13.0	NM	4.64	0.00	18.16			
	3/11/2019				NM	4.97	0.00	17.83			
	4/25/2019				NM	5.59	0.00	17.21			
	7/8/2019				NM	4.97	0.00	17.83			
	3/2/2020				NM	3.52	0.00	19.28			
	4/20/2021				NM	5.03	0.00	17.77			
	10/13/2021				NM	4.32	0.00	18.48			
	3/29/2022				NM	6.62	0.00	16.16			
	9/28/2022				NM	4.54	0.00	18.26			
	3/28/2023				NM	4.85	0.00	17.95			
	9/18/2023				NM	3.69	0.00	19.11			
	01589 MW-33				2/26/2019	22.26	3.0-13.0	13.0	NM	4.30	0.00
3/11/2019		NM	4.54	0.00	17.72						
4/25/2019		NM	5.46	0.00	16.80						
7/8/2019		4.37	4.48	0.11	17.86						
3/2/2020		NM	4.48	0.00	17.78						
4/20/2021		5.13	5.31	0.18	17.08						
10/13/2021		NM	3.88	0.00	18.38						
3/29/2022		NM	6.23	0.00	16.03						
9/28/2022		NM	5.00	0.00	17.26						
3/28/2023		NM	4.61	0.00	17.65						
9/18/2023		5.86	5.96	0.10	16.37						
01589 MW-34		2/26/2019	26.56	3.0-13.0	13.0				NM	8.08	0.00
	3/11/2019	NM				8.35	0.00	18.21			
	4/25/2019	NM				9.43	0.00	17.13			
	7/8/2019	NM				8.11	0.00	18.45			
	3/2/2020	NM				6.55	0.00	20.01			
	4/20/2021	NM				9.15	0.00	17.41			
	10/15/2021	NM				7.53	0.00	19.03			
	3/29/2022	NM				10.22	0.00	16.34			
	9/27/2022	NM				8.26	0.00	18.30			
	3/28/2023	NM				8.44	0.00	18.12			
	9/18/2023	NM				9.19	0.00	17.37			
	01589 MW-35	2/26/2019				25.15	3.0-13.0	13.0	NM	6.85	0.00
3/11/2019		NM	7.11	0.00	18.04						
4/25/2019		NM	8.33	0.00	16.82						
7/8/2019		NM	6.92	0.00	18.23						
3/2/2020		NM	5.20	0.00	19.95						
4/20/2021		NM	8.01	0.00	17.14						
10/15/2021		NM	6.27	0.00	18.88						
3/29/2022		NM	9.03	0.00	16.12						
9/27/2022		NM	7.09	0.00	18.06						
3/28/2023		NM	7.24	0.00	17.91						
9/18/2023		NM	8.14	0.00	17.01						
01589 MW-36		2/26/2019	19.00	3.0-13.0	13.0				NM	2.60	0.00
	3/11/2019	NM				2.76	0.00	16.24			
	4/25/2019	NM				3.66	0.00	15.34			
	7/8/2019	NM				2.21	0.00	16.79			
	3/2/2020	NM				1.06	0.00	17.94			
	4/20/2021	NM				3.59	0.00	15.41			
	10/14/2021	NM				1.83	0.00	17.17			
	3/30/2022	NM				4.22	0.00	14.78			
	9/28/2022	NM				2.78	0.00	16.22			
	3/29/2023	NM				2.87	0.00	16.13			
	9/18/2023	NM				2.57	0.00	16.43			

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 * = product thickness measured through use of a bailer

**Table 1
Groundwater Elevation Data
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-37	2/26/2019	23.01	3.0-13.0	13.0	NM	8.31	0.00	14.70
	3/11/2019				NM	8.51	0.00	14.50
	4/25/2019				NM	9.72	0.00	13.29
	7/8/2019				NM	8.03	0.00	14.98
	3/2/2020				NM	5.65	0.00	17.36
	4/20/2021				NM	9.81	0.00	13.20
	10/14/2021				NM	7.17	0.00	15.84
	3/29/2022				NM	9.28	0.00	13.73
	9/27/2022				well destroyed			
	3/29/2023				well destroyed			
	01589 MW-37R				9/19/2023	18.61		
01589 MW-38	2/26/2019	23.25	3.0-13.0	13.0	NM	8.19	0.00	15.06
	3/11/2019				NM	8.36	0.00	14.89
	4/25/2019				NM	9.50	0.00	13.75
	7/8/2019				NM	8.01	0.00	15.24
	3/2/2020				NM	5.82	0.00	17.43
	4/20/2021				NM	9.60	0.00	13.65
	10/14/2021				NM	7.08	0.00	16.17
	3/29/2022				NM	9.48	0.00	13.77
	9/27/2022				NM	8.67	0.00	14.58
	3/29/2023				well destroyed			
	01589 MW-38R				9/19/2023	19.25		
01589 DMW-1	11/22/2018	21.84	34.0 - 39.0	39.0	NM	5.11	0.00	16.73
	2/26/2019				NM	4.87	0.00	16.97
	3/11/2019				NM	4.94	0.00	16.90
	4/25/2019				NM	5.81	0.00	16.03
	7/8/2019				NM	4.13	0.00	17.71
	3/2/2020				NM	3.29	0.00	18.55
	4/20/2021				NM	5.97	0.00	15.87
	10/14/2021				NM	2.87	0.00	18.97
	3/29/2022				NM	6.32	0.00	15.52
	9/28/2022				NM	4.87	0.00	16.97
	3/28/2023				NM	5.00	0.00	16.84
	9/20/2023				NM	5.33	0.00	16.51
	11/22/2018				NM	8.25	0.00	10.56
01589 DMW-2	2/26/2019	18.81	34.0 - 39.0	39.0	NM	3.81	0.00	15.00
	3/11/2019				NM	3.89	0.00	14.92
	4/25/2019				NM	4.91	0.00	13.90
	7/8/2019				NM	3.49	0.00	15.32
	3/2/2020				NM	2.19	0.00	16.62
	4/20/2021				NM	5.06	0.00	13.75
	10/15/2021				NM	2.87	0.00	15.94
	3/29/2022				NM	5.11	0.00	13.70
	9/27/2022				NM	4.11	0.00	14.70
	3/29/2023				NM	4.08	0.00	14.73
	9/19/2023				NM	3.12	0.00	15.69
	11/22/2018				NM	3.65	0.00	19.68
	01589 DMW-3				2/26/2019	23.33	35.0 - 40.0	40.0
3/11/2019		NM	8.34	0.00	14.99			
4/25/2019		NM	9.13	0.00	14.20			
7/8/2019		NM	7.92	0.00	15.41			
3/2/2020		NM	6.71	0.00	16.62			
4/20/2021		NM	9.27	0.00	14.06			
10/15/2021		NM	7.40	0.00	15.93			
3/29/2022		NM	9.25	0.00	14.08			
9/27/2022		NM	8.44	0.00	14.89			
3/29/2023		NM	8.37	0.00	14.96			
9/19/2023		NM	7.67	0.00	15.66			
7/8/2019		NM	4.30	0.00	16.83			
01589 DMW-4		3/2/2020	21.13	40.0 - 45.0	45.0			
	4/20/2021	NM				4.91	0.00	16.22
	10/13/2021	NM				2.86	0.00	18.27
	3/30/2022	NM				5.58	0.00	15.55
	9/27/2022	NM				2.83	0.00	18.30
	3/28/2023	NM				3.68	0.00	17.45
	9/19/2023	NM				4.47	0.00	16.66
01589 DMW-5	7/8/2019	26.38	38.0 - 43.0	43.0	NM	8.06	0.00	18.32
	3/2/2020				NM	6.88	0.00	19.50
	4/20/2021				NM	9.27	0.00	17.11
	10/15/2021				NM	7.56	0.00	18.82
	3/30/2022				NM	10.19	0.00	16.19
	9/27/2022				NM	8.36	0.00	18.02
	3/28/2023				NM	8.50	0.00	17.88
9/19/2023	NM	9.09	0.00	17.29				
01589 RW-1	11/22/2018	21.63	2.0 - 12.0	12.0	NM	4.68	0.00	16.95
	2/26/2019				4.01	4.71	0.70	17.44
	3/11/2019				NM	4.43	0.00	17.20
	4/25/2019				NM	5.15	0.00	16.48
	7/8/2019				NM	4.05	0.00	17.58
	3/2/2020				2.35	3.16	0.81	18.47
	4/20/2021				4.95	5.08	0.13	17.58
	10/13/2021				3.59	3.66	0.07	17.58
	3/30/2022				5.94	5.94	0.00	15.69
	9/28/2022				4.00	4.30	0.30	17.33
	3/28/2023				4.27	4.30	0.03	17.33
	9/18/2023				NM	4.05	0.00	17.58

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 * = product thickness measured through use of a bailer

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Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 RW-2	11/22/2018	21.51	2.0 - 12.0	12.0	NM	4.28	0.00	17.23
	2/26/2019				3.91	3.95	0.04	17.56
	3/11/2019				4.20	4.24	0.04	17.27
	4/25/2019				NM	4.69	0.00	16.82
	7/8/2019				2.22	2.78	0.56	19.14
	3/2/2020				2.22	2.78	0.56	19.14
	4/20/2021				4.34	4.40	0.06	17.15
	10/13/2021				NM	3.18	0.00	18.33
	3/30/2022				NM	5.99	0.00	15.52
	9/28/2022				NM	3.54	0.00	17.97
	3/28/2023				NM	3.79	0.00	17.72
	9/18/2023				NM	5.41	0.00	16.10
01589 RW-3	11/22/2018	21.95	2.0 - 12.0	12.0	NM	4.60	0.00	17.35
	2/26/2019				NM	4.36	0.00	17.59
	3/11/2019				NM	4.58	0.00	17.37
	4/25/2019				NM	5.14	0.00	16.81
	7/8/2019				3.80	5.36	1.56	17.74
	3/2/2020				2.75	3.31	0.56	18.23
	4/20/2021				4.77	4.83	0.06	17.08
	10/13/2021				NM	3.66	0.00	18.29
	3/30/2022				NM	5.54	0.00	16.41
	9/28/2022				NM	4.06	0.00	17.89
	3/28/2023				NM	4.33	0.00	17.62
	9/18/2023				NM	5.51	0.00	16.44
01589 RW-4	11/22/2018	21.80	2.0 - 12.0	12.0	NM	3.91	0.00	17.89
	2/26/2019				NM	3.70	0.00	18.10
	3/11/2019				NM	3.88	0.00	17.92
	4/25/2019				NM	4.49	0.00	17.31
	7/8/2019				NM	3.38	0.00	18.42
	3/2/2020				NM	2.12	0.00	19.68
	4/20/2021				NM	4.15	0.00	17.65
	10/13/2021				NM	2.96	0.00	18.84
	3/30/2022				NM	5.42	0.00	16.38
	9/28/2022				NM	3.46	0.00	18.34
	3/28/2023				NM	3.77	0.00	18.03
	9/18/2023				NM	4.31	0.00	17.49
01589 RW-5	11/22/2018	19.76	2.0 - 12.0	12.0	2.80	3.16	0.36	16.87
	2/26/2019				2.52	3.11	0.59	17.09
	3/11/2019				2.76	3.31	0.55	16.86
	4/25/2019				3.25	5.02	1.77	16.05
	7/8/2019				2.08	3.72	1.64	17.25
	3/2/2020				0.35	2.87	2.52	15.03
	4/20/2021				3.27	4.02	0.75	15.19
	10/13/2021				1.98	2.11	0.13	17.55
	3/30/2022				4.25	4.29	0.04	15.44
	9/28/2022				2.48	2.68	0.20	16.93
	3/28/2023				2.64	2.86	0.22	16.74
	9/18/2023				NM	3.52	0.00	16.24
01589 RW-6	11/22/2018	19.20	2.0 - 12.0	12.0	3.11	4.42	1.31	15.75
	2/26/2019				1.91	4.09	2.18	16.72
	3/11/2019				2.52	2.98	0.46	16.56
	4/25/2019				2.95	4.67	1.72	15.80
	7/8/2019				1.70	3.70	2.00	14.02
	3/2/2020				0.37	2.04	1.67	15.92
	4/20/2021				2.85	3.22	0.37	15.71
	10/13/2021				1.37	2.56	1.19	15.76
	3/30/2022				3.91	3.92	0.01	15.27
	9/28/2022				2.66	2.96	0.30	16.02
	3/28/2023				2.14	2.73	0.59	16.03
	9/18/2023				NM	2.87	0.00	16.33
01589 RW-7	2/26/2019	21.53	3.0-13.0	13.0	NM	4.40	0.00	17.13
	3/11/2019				NM	4.66	0.00	16.87
	4/25/2019				NM	5.37	0.00	16.16
	7/8/2019				4.12	4.57	0.45	16.63
	3/2/2020				2.84	3.00	0.16	18.41
	4/20/2021				5.17	5.37	0.20	16.01
	10/13/2021				3.70	3.82	0.12	17.62
	3/30/2022				6.10	6.10	0.00	15.43
	9/28/2022				4.28	4.28	0.00	17.25
	3/28/2023				NM	4.49	0.00	17.04
	9/18/2023				NM	5.64	0.00	15.89
	2/26/2019				2.30	2.31	0.01	16.37
01589 RW-8	3/11/2019	18.67	3.0-13.0	13.0	2.47	2.48	0.01	16.20
	4/25/2019				3.25	4.36	1.11	15.13
	7/8/2019				2.07	2.37	0.30	16.08
	3/2/2020				NM	1.35	0.00	17.32
	4/20/2021				3.07	3.60	0.53	14.68
	10/14/2021				NM	1.59	0.00	17.08
	3/30/2022				NM	4.10	0.00	14.57
	9/28/2022				NM	2.14	0.00	16.53
	3/29/2023				NM	2.36	0.00	16.31
	9/18/2023				NM	2.67	0.00	16.00
	2/26/2019				2.90	3.14	0.24	16.40
	3/11/2019				3.11	3.21	0.10	16.22
4/25/2019	3.42	5.15	1.73	15.49				
7/8/2019	2.75	3.61	0.86	16.39				
3/2/2020	NM	2.24	0.00	17.12				
4/20/2021	3.75	3.87	0.12	15.58				
10/14/2021	2.21	2.27	0.06	17.13				
3/30/2022	4.44	4.44	0.00	14.92				
9/28/2022	2.69	2.81	0.12	16.64				
3/29/2023	2.76	2.89	0.13	16.57				
9/18/2023	NM	3.76	0.00	15.60				

btoc = below top of casing
 NM = no measurable product present
 NA = not applicable
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)
 * = product thickness measured through use of a bailer

Table 1
Groundwater Elevation Data
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)				
01589 RW-10	2/26/2019	17.00	3.0-13.0	13.0	2.00	3.99	1.99	14.48				
	3/11/2019				2.28	2.61	0.33	14.63				
	4/25/2019				3.00	4.57	1.57	13.59				
	7/8/2019				2.07	3.44	1.37	12.55				
	3/2/2020				1.61	2.18	0.57	14.40				
	4/20/2021				3.09	3.31	0.22	13.53				
	10/14/2021				1.71	1.72	0.01	15.27				
	3/30/2022				3.87	3.89	0.02	13.10				
	9/28/2022				2.22	2.22	0.00	14.78				
	3/29/2023				2.40	2.42	0.02	14.57				
	9/18/2023				NM	2.81	0.00	14.19				
	01589 RW-11				2/26/2019	17.49	1.0-6.0	6.0	1.39	1.80	0.41	15.99
3/11/2019		not gauged		0.50*	NM							
4/25/2019		not gauged		1.30*	NM							
7/8/2019		1.05	2.55	1.50	13.83							
3/2/2020		not gauged		6.00	NM							
4/20/2021		2.26	2.94	0.68	14.05							
10/15/2021		1.06	6.00	4.94	7.83							
3/30/2022		0.01	2.47	2.46	13.20							
9/28/2022		NM	NM	NM	NM							
3/29/2023		well abandoned 2-23										
01589 RW-11A		9/19/2023	NM	5.0-15.0	15.0				NM	NM	0.08	NM
01589 RW-11B		9/19/2023	NM	5.0-15.0	15.0				NM	NM	0.30	NM
01589 RW-12	2/26/2019	17.05	1.0-6.0	6.0	NM	1.09	NA	15.96				
	3/11/2019				NM	1.19	NA	15.86				
	4/25/2019				NM	2.06	NA	14.99				
	7/8/2019				NM	0.86	NA	16.19				
	3/2/2020				not gauged		NA	NM				
	4/20/2021				NM	2.07	0.00	14.98				
	10/15/2021				NM	0.50	0.00	16.55				
	3/30/2022				NM	2.43	0.00	14.62				
	9/28/2022				NM	1.39	0.00	15.66				
	3/29/2023				NM	1.29	0.00	15.76				
	9/18/2023				NM	1.08	0.00	15.97				

btoc = below top of casing
 NM = no measurable product present
 NA = not applicable
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)
 * = product thickness measured through use of a bailer

Table 2
Groundwater Analytical Data
2nd Half 2023
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							comment	
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl-tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl-tert-Butyl ether		tert-Butyl formate
01589 MW-1	9/20/2023	7,400	19,100	1,070	5.080	294	<500	<100	<5,000	<100	<20,000	965 J	5,130	<200	232	<2,000	100x, 500x dilutions
01589 MW-2	9/20/2023	2,460	2,470	200	1,100	<50	<250	<50.9	<2,500	<50.0	<10,000	<1,000	1,530	<100	23	<1,000	50 x dilution
01589 MW-3	9/20/2023	49.2	4.3 J	3.0 J	7.1 J	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	41.6 J	<10.0	<10.0	<100	5 x dilution
01589 MW-4	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-5	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-6	9/20/2023	1,830	4,070	337	4,130	459	189 J	<50.0	<2,500	<50.0	<10,000	1,500 J	11,700	29.1 J	185	<1,000	50x, 200x dilutions
01589 MW-7	9/20/2023	1.1	<1.0	0.39 J	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	22.8	<2.0	<2.0	<20.0	
01589 MW-8	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-9	9/20/2023	<1.0	<1.0	<1.0	<3.0	2.8	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-10	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-11	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-12	9/20/2023	71.7	6.6 J	7.9 J	<30.0	<10.0	<50.0	<10.0	<500	<10.0	<2,000	<200	260	<20	6.6 J	<200	10 x dilution (matrix interf.)
01589 MW-13	9/19/2023	<1.0	<1.0	0.5 J	1.4 J	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	anti-foam agent applied
01589 MW-14	9/19/2023	<10.0	<10.0	<10.0	<30.0	<10.0	<50.0	<10.0	<500	<10.0	<2,000	<200	<200	<20.0	<20.0	<200	10 x dilution (matrix interf.)
01589 MW-15	9/19/2023	618	1,520	192	894	<25.0	<130	<25.0	<1,300	<25.0	<5,000	<500	212 J	<50.0	10 J	<500	25 x dilution
01589 MW-16	9/19/2023	<5.0	2.2 J	<5.0	<15.0	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100	5 x dilution (matrix interf.)
01589 MW-17	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-18	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-19	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-20	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-21	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
01589 MW-22	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE	

Notes:

Units = ug/L

*< = Not detected at or above the laboratory reporting limit

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.

P5: The method-required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Table 2
Groundwater Analytical Data
2nd Half 2023
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							comment		
		Benzene	Toluene	Ethylbenzene	Xylenes Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl-tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl-tert-butyl ether		tert-Butyl formate	
01589 MW-23	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	10x, 25x dilutions	
01589 MW-24	9/19/2023	<1.0	<1.0	<1.0	<3.0	1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-25	9/19/2023	13.2	<1.0	<1.0	<3.0	2.1	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-26R	9/19/2023	<1.0	<1.0	<1.0	<3.0	8.9	<5.0	<1.0	<50.0	1.1	<200	14.7 J	121	1.2 J	5.3	<20.0		
01589 MW-27	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-28	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-29R	9/19/2023	<10.0	<10.0	<10.0	<30.0	164	<50.0	<10.0	<500	2.8 J	<2,000	835	6,450	20.6	36.4	<200		
01589 MW-30	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-31	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-32	9/19/2023	11.2	0.65 J	1.6	2.5 J	7.2	<5.0	<1.0	<50.0	0.68 J	<200	26.4	112	3.0	24.8	<20.0		
01589 MW-34	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-35	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 MW-36	9/19/2023	3.2	5.2	15.3	8.3	<1.0	1.9 J	<1.0	<50.0	<1.0	<200	7.1 J	98.8	<2.0	<2.0	<20.0		
01589 MW-37R	9/19/2023	<1.0	<1.0	<1.0	<3.0	2.3	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	0.37 J	<2.0	<20.0		
01589 MW-38R	9/19/2023	<5.0	<5.0	<5.0	<15.0	122	<25.0	<5.0	<250	2.2 J	<1,000	618	2,710	17.8	30.1	<100		
01589 DMW-1	9/20/2023	0.65 J	2.6	0.72 J	3.0	<1.0	2.3 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	5 x dilution	
01589 DMW-2	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 DMW-3	9/19/2023	<1.0	<1.0	<1.0	<3.0	8.6	<5.0	<1.0	<50.0	0.32 J	<200	<20.0	17.5 J	2.0	<2.0	<20.0		
01589 DMW-4	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 DMW-5	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0		
01589 RW-1	9/20/2023	7,990	22,200	1,630	9,270	268 J	<2,500	<500	<25,000	<500	<100,000	<10,000	3,860 J	<1,000	<1,000	<10,000		500 x dilution
01589 RW-2	9/20/2023	6,950	17,400	1,410	6,300	989	<2,500	<500	<25,000	<500	68,000,000	<10,000	26,300	<1,000	<1,000	<10,000		500 x, 50,000 x dilution
01589 RW-3	9/20/2023	662	406	199	751	<10.0	42.5 J	<10.0	<500	<10.0	<2,000	<200	517	7.5 J	<20.0	<200		10 x dilution
01589 RW-4	9/20/2023	29.8	<1.0	<1.0	1.1 J	<1.0	<5.0	<1.0	18.4 JB	<1.0	<200	<20.0	19.9 J	<2.0	<2.0	<20.0		
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE		

Notes:

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.

P5: The method-required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Table 2
Groundwater Analytical Data
2nd Half 2023
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							comment	
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl-tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl-tert-butyl ether		tert-Butyl formate
01589 RW-5	9/20/2023	1,170	1,700	549	2,770	552	80.7 J	<20.0	<1,000	<20.0	<4,000	<400	13,500	40.0	<40.0	<400	20 x, 200 x dilution
01589 RW-6	9/20/2023	550	1,110	182	2,190	108	67.8 J	<20.0	<1,000	<20.0	<4,000	<400	3,040	18.4 J	<40.0	<400	20 x dilution
01589 RW-7	9/20/2023	2,810	7,810	853	6,620	468	111 J	<100	<5,000	<100	<20,000	<2,000	24,000	35.3 J	<200	<2,000	100 x dilution
01589 RW-8	9/20/2023	88.4	117	43.9	410	<5.0	30	<5.0	<250	<5.0	<1,000	85.6 J	1,020	4.7 J	17.3	<100	5 x dilution
01589 RW-9	9/20/2023	567	1,580	192	1,300	395	40.1 J	<20.0	<1,000	<20.0	2,440 J	<400	7,200	13.1 J	<40.0	<400	20 x dilution
01589 RW-10	9/20/2023	436	1,610	294	1,270	<20.0	29.0 J	<20.0	<1,000	<20.0	<4,000	<400	787	<40.0	<40.0	<400	20 x dilution
01589 RW-12	9/19/2023	659	6,900	1,050	9,410	<100	104 J	<100	<5,000	<100	112,000	<2,000	800	<200	<200	<2,000	100 x, 500 x dilution
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE	

Notes:

Units = µg/L

*< = Not detected at or above the laboratory reporting limit

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.

P5: The method-required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-1	9/20/2023	7,400	19,100	1,070	5,080	294	<500	<100	<5,000	<100	<20,000	965 J	5,130	<200	232	<2,000
	3/28/2023	5,720	10,800	799	3,810	301	77.1 J	<100	<10,000	<100	<20,000	<10,000	7,650 J	<1,000	<1,000	<5,000
	9/28/2022	7,010	17,600	1,190	5,390	495	166	<100	<10,000	<100	19,800 J	<10,000	9,090 J	<1,000	<1,000	<5,000
	3/29/2022	5,570	14,800	983	4,490	479	125	<100	<10,000	<100	44,400	<10,000	9,740 J	<1,000	<1,000	<5,000
	10/13/2021	14,600	19,600	1,240	3,350	468	157 J	<200	<20,000	<200	<40,000	<20,000	9,120 J	<2,000	<2,000	<10,000
	4/22/2021	13,900	32,200	1,730	8,450	1,190	378	<250	<25,000	<250	<50,000	<25,000	<25,000	<2,500	<2,500	<12,500
	3/3/2020	19,300	44,200	2,460	11,100	1,890	342	<250	<25,000	<250	84,400	<25,000	40,000	<2,500	<2,500	<12,500
	07/10/2019	17,700	40,400	2,290	11,400	1,850	<250	<250	<25,000	<250	<50,000	<25,000	<25,000	<2,500	<2,500	<12,500
	11/28/2018	23,000	62,000	3,600	18,000	3,100	440J	<500	<10,000	<500	38,000 J	4,100 J	29,000	<5,000	880	<2,500
	SSTL	6	1,324	869	11,400	51	28	--	--	--	21,596	1,526	295	--	57	--
01589 MW-2	9/20/2023	2,460	2,470	200	1,100	<50	<250	<50.9 J	<2,500	<50.0	<10,000	<1,000	1,530	<100	23	<1,000
	3/28/2023	1,310	1,980	246	976	105	36.4	<12.5	<1,250	<12.5	<2,500	759 J	4,020	<125	<125	<625
	9/28/2022	7,660	16,000	1,150	5,490	394	175	<125	<12,500	<125	<25,000	<12,500	16,200	<1,250	<1,250	<6,250
	3/29/2022	8,610	18,100	1,230	6,040	483	140	<125	<12,500	<125	<25,000	<12,500	25,000	<1,250	<1,250	<6,250
	10/13/2021	8,260	17,400	1,030	7,340	431	188	<125	<12,500	<125	<25,000	<12,500	18,900	<1,250	<1,250	<6,250
	4/21/2021	12,100	26,300	1,500	11,100	913	561	<250	<25,000	<250	<50,000	<25,000	37,700	<2,500	<2,500	<12,500
	3/3/2020	0.02 Feet of free product - not sampled														
	07/10/2019	10,000	21,600	1,690	9,250	559	236	<125	<12,500	<125	<25,000	<12,500	16,200	<1,250	<1,250	<6,250
	11/28/2018	11,000	22,000	2,100	9,500	680	200	<200	<4,000	<200	<20,000	2,000J	20,000	<2,000	390	<1,000
	SSTL	5	1,144	775	9,250	45	26	--	--	--	14,610	1,453	264	--	51	--
01589 MW-3	9/20/2023	49.2	4.3 J	3.0 J	7.1 J	<5.0	<25.0	<5.0	<25.0	<5.0	<1,000	<100	41.6 J	<10.0	<10.0	<100
	3/28/2023	36	<1.0	<1.0	0.68 J	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	219	<10.0	<10.0	<50.0
	9/28/2022	104	1.4	4.6	13.9	<1.0	<1.0	<1.0	<100	<1.0	<200	31.7 J	215	<10.0	<10.0	<50.0
	3/29/2022	12.3	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	61.3	1.7	0.78 J	17.5	0.89 J	<1.0	<1.0	<100	<1.0	<200	<100	115	<10.0	3.3 J	<50.0
	4/21/2021	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/3/2020	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	4.7	2.9	<1.0	0.94J	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	14J	<10.0	<1.0	<5.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 MW-4	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/3/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 MW-5	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/3/2020	<1.0	<1.0	<1.0	<1.0	<1.0	16.9	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 MW-6	9/20/2023	1,830	4,070	337	4,130	459	189 J	<50.0	<2,500	<50.0	<10,000	1,500 J	11,700	29.1 J	185	<1,000
	3/29/2023	0.27 feet of free product - not sampled														
	9/28/2022	0.24 feet of free product - not sampled														
	3/29/2022	11,700	21,400	1,850	9,910	1,410	256	<200	<20,000	<200	<40,000	<20,000	22,000	<2,000	<2,000	<10,000
	10/13/2021	0.32 feet of free product - not sampled														
	5/13/2021	16,400	28,900	2,190	8,920	1,990	272	<200	<20,000	<200	<40,000	5,410 J	42,200	<2,000	<2,000	<10,000
	3/3/2020	1.09 feet of free product - not sampled														
	07/08/2019	0.09 feet of free product - not sampled														
	11/28/2018	0.76 feet of free product - not sampled														
	SSTL	12	3,709	2,005	8,920	131	46	--	--	--	40,000	2,383	658	--	122	--

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-7	9/20/2023	1.1	<1.0	0.39 J	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	23	<2.0	<2.0	<20.0
	3/29/2023	1,470	182	261	574	<10.0	66.8	<10.0	<1,000	<10.0	<2,000	<1,000	2,010	<100	<100	<500
	9/28/2022	877	123	375	598	<5.0	46.5	<5.0	<500	<5.0	<1,000	<500	1,580	<50.0	<50.0	<250
	3/29/2022	465	761	132	969	<5.0	28.7	<5.0	<500	<5.0	<1,000	<500	538	<50.0	<50.0	<250
	10/14/2021	1,340	2,810	592	3,160	<20.0	118	<20.0	<2,000	<20.0	<4,000	<2,000	1,830 J	<200	<200	<1,000
	4/21/2021	3,890	17,000	1,550	7,260	<100	221	<100	<10,000	<100	<20,000	<10,000	<10,000	<1,000	<1,000	<5,000
	3/3/2020	10,600	37,800	2,140	12,000	<250	317	<250	<25,000	<250	<50,000	<25,000	<25,000	<2,500	<2,500	<12,500
	07/09/2019	9,210	34,100	2,390	12,700	<200	271	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
	11/29/2018	12,000	45,000	2,600	13,000	<200	320	<200	<4,000	<200	<20,000	<4,000	17,000	<2,000	<2,000	98J
SSTL	21	8,500	2,390	12,700	200	67	--	--	--	40,000	3,356	1,247	--	222	--	
01589 MW-8	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<2.0	<2.0	<20.0	
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<200	<2.0	<400	<200	<200	<20.0	<20.0	<100
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	9.8J	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-9	9/20/2023	<1.0	<1.0	<1.0	<3.0	2.8	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<2.0	<2.0	<20.0	
	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	5/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	0.46 J	<1.0	<1.0	1.7	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<20.0	<1.0	<100	<20.0	15J	<10.0	0.58J	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-10	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<2.0	<2.0	<20.0	
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	<1.0	<1.0	<1.0	<1.0	0.74 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-11	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<2.0	<2.0	<20.0	
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-12	9/20/2023	71.7	6.6 J	7.9 J	<30.0	<10.0	<50.0	<10.0	<500	<10.0	<2,000	<200	260	<20	6.6 J	<200
	3/28/2023	2,490	16.7 J	85.8	22.7	<20.0	<20.0	<20.0	<2,000	<20.0	<4,000	<2,000	<2,000	<200	<200	<1,000
	9/28/2022	846	9.6	149	8.1	<5.0	5.5	<5.0	<500	<5.0	<1,000	<500	274 J	<50.0	<50.0	<250
	3/29/2022	2,450	27.8	163	42.3	<12.5	8.1 J	<12.5	<1,250	<12.5	<2,500	<1,250	<1,250	<125	40.8 J	<625
	10/13/2021	700	20.1	127	16.9	7.2	9.1	<5.0	<500	<5.0	<1,000	<500	352 J	<50.0	16.9 J	<250
	4/21/2021	1,440	27.5	152	112	11 J	<12.5	<12.5	<1,250	<12.5	<2,500	<1,250	<1,250	<125	<125	<625
	3/3/2020	609	18.9	81.2	52.4	13.8	11.7	<5.0	<500	<5.0	<1,000	<500	1,140	<50.0	34.8 J	<250
	07/10/2019	410	12.7	46.5	24.5	9.8	9.1	<2.5	<250	<2.5	<500	<250	1,370	<25.0	25.9	<125
	11/28/2018	700	35	110	70	<20.0	19 J	<20.0	<400	<20.0	<2,000	<400	330 J	<200	18J	<100
SSTL	7	13	47	25	10	9	--	--	--	1,000	250	382	--	26	--	

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl/methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-13	9/19/2023	<1.0	<1.0	0.5 J	1.4 J	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	33.3	31.5	1,360	4,130	<10.0	588	<10.0	<1,000	<10.0	<2,000	<1,000	<1,000	<100	<100	<500
	9/27/2022	63	18.8	1,040	2,420	<10.0	491	<10.0	<1,000	<10.0	<2,000	<1,000	<1,000	<100	<100	<500
	3/29/2022	17	0.74 J	69	29	<1.0	16.9	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	30.9	1.5 J	113	93	<2.0	45.7	<2.0	<200	<2.0	<400	<200	<200	<20.0	<20.0	<100
	4/21/2021	88.7	83	2,260	6,800	<25.0	790	<25.0	<2,500	<25.0	<5,000	<2,500	<2,500	<250	<250	<1,250
	3/3/2020	36.5	16.6	439	1,290	<4.0	234	<4.0	<400	<4.0	<800	<400	<400	<40.0	<40.0	<200
	07/10/2019	31.2	19.5	490	1,630	<5.0	164	<5.0	<500	<5.0	<1000	<500	<500	<50.0	<50.0	<250
	11/28/2018	130	80	1,300	3,900	<20.0	470	<20.0	<400	<20.0	<2,000	<400	<400	<200	<20.0	<100
SSTL	7	20	490	1,630	5	30	--	--	--	1,000	500	334	--	100	--	
01589 MW-14	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<1,250	<12.5	<2,500	<1,250	<1,250	<125	<125	<625
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	627	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	1.1	<1.0	0.67 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/3/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	4	--	--	--	1,000	100	100	--	100	--	
01589 MW-15	9/19/2023	618	1,520	192	894	<25	<130	<25.0	<1,300	<25.0	<5,000	<500	212 J	<50.0	10 J	<500
	3/28/2023	4,090	7,070	981	4,370	<50.0	132	<50.0	<5,000	<50.0	<10,000	<5,000	6,540	<500	<500	<2,500
	9/27/2022	3,130	5,870	727	3,170	<50.0	60.5	<50.0	<5,000	<50.0	<10,000	<5,000	8,510	<500	<500	<2,500
	3/29/2022	3,310	9,740	889	3,980	<50.0	77.9	<50.0	<5,000	<50.0	<10,000	<5,000	4,930 J	<500	<500	<2,500
	10/13/2021	1,110	1,000	280	1,210	4.3 J	35.7	<10.0	<1,000	<10.0	<2,000	<1,000	<1,000	<100	<100	<500
	4/21/2021	5,310	9,510	901	4,410	34.2 J	151	<50.0	<5,000	<50.0	<10,000	<5,000	<5,000	<500	<500	<2,500
	3/4/2020	1,020	1,510	288	1,690	4.6 J	36.8	<12.5	<1,250	<12.5	<2,500	<1,250	1,060 J	<125	<125	<625
	07/10/2019	2,840	7,910	982	4,850	<50.0	120	<50.0	<5,000	<50.0	<10,000	<5,000	6,950	<500	<500	<2,500
	11/29/2018	2,100	7,400	930	4,600	<100	100	<100	<2,000	<100	<10,000	<2,000	5,800	<1,000	51 J	<500
SSTL	7	1,534	870	4,850	50	29	--	--	--	10,000	1,758	382	--	73	--	
01589 MW-16	9/19/2023	<5.0	2.2 J	<5.0	<15.0	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	0.82 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20	<20	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-17	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	0.6 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-18	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	0.46 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/3/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl/methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-25	9/19/2023	13.2	<1.0	<1.0	<3.0	2.1	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	4.6	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<100	<1.0	<200	<100	<10.0	<10.0	<50.0	
	9/27/2022	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	3/29/2022	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	10/15/2021	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	4/22/2021	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	03/03/2020	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/28/2018	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<10.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-26R	9/19/2023	<1.0	<1.0	<1.0	<3.0	8.9	<5.0	<1.0	<50.0	1.1	<200	14.7 J	121	1.2 J	5.3	<20.0
01589 MW-26	3/29/2023	well destroyed														
	9/27/2022	well destroyed														
	3/29/2022	<1.0	<1.0	<1.0	<1.0	7.4	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	4/21/2021	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	03/03/2020	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/28/2018	<1.0	1.6	0.83J	3.9	0.88J	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<10.0	
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 MW-27	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	03/03/2020	<1.0	<1.0	<1.0	<1.0	<1.0	0.71 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<10.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-28	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	9/27/2022	<2.0	2.1	1.6 J	<2.0	<2.0	<2.0	<2.0	<200	<2.0	<400	<200	<200	<20.0	<20.0	
	3/29/2022	<1.0	<1.0	<1.0	<1.0	1	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	10/15/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	4/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	03/03/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/28/2018	<1.0	<1.0	<1.0	<1.0	0.43J	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<10.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 MW-29R	9/19/2023	<10.0	<10.0	<10.0	<30.0	164	<50.0	<10.0	<500	2.8 J	<2,000	835	6,450	20.6	36.4	<200
01589 MW-29	3/29/2023	well destroyed														
	9/27/2022	<2.5	<2.5	<2.5	<2.5	20.6	<2.5	<2.5	<250	<2.5	<500	139 J	922	<25.0	<25.0	<125
	3/29/2022	1.2	<1.0	<1.0	<1.0	111	<1.0	<1.0	<100	1.5	<200	377	910	<10.0	40.5	<50.0
	10/14/2021	1.7	<1.0	2	<1.0	20.4	<1.0	<1.0	<100	<1.0	<200	55.7 J	188	<10.0	7.4 J	<50.0
	4/21/2021	0.8 J	<1.0	<1.0	<1.0	45	<1.0	<1.0	<100	0.62 J	<200	92 J	236	2.9 J	16	<50.0
	03/03/2020	10.4	<1.0	<1.0	<1.0	28.9	<1.0	<1.0	<100	0.41 J	<200	63.3 J	87.2 J	<10.0	8.8 J	<50.0
	07/09/2019	2.2	<1.0	<1.0	<1.0	7.4	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/29/2018	55	<1.0	<1.0	<1.0	84	<1.0	<1.0	<20.0	1	<100	150	190	5.7J	27	<5.0
	SSTL	5	5	5	10	7	5	--	--	--	1,000	100	100	--	100	--
01589 MW-30	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	03/03/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<10.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-31	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	0.53 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<1.0	<1.0	<1.0	<1.0	0.99 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	<1.0	<1.0	<1.0	<1.0	0.36 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	<1.0	<1.0	<1.0	<1.0	4.4	2.6	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	3.5	<5.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 MW-32	9/19/2023	11	0.65 J	2	2.5 J	7.2	<5.0	<1.0	<50.0	0.68 J	<200	26.4	112	3	24.8	<20.0
	3/28/2023	131	3	4	6	8.3	7.2	<1.0	<100	<1.0	<200	119	572	4.2 J	24.5	<50.0
	9/28/2022	571	5	12	18	9	5.1	<5.0	<500	<5.0	<1,000	<500	702	<50.0	18.9 J	<250
	3/29/2022	127	2	1	10	4.4	0.86 J	<1.0	<100	<1.0	<200	<100	97.9 J	2.7 J	12.9	<50.0
	10/13/2021	366	1.5 J	4.4	13.6	8.5	<2.0	<2.0	<200	<2.0	<400	137 J	655	6.5 J	10.7 J	<100
	4/22/2021	144	0.59 J	0.51 J	2	7.6	2.1	<1.0	<100	<2.0	<200	74.2 J	222	4.3 J	7.6 J	<50.0
	03/03/2020	340	2.1	3.2	15.4	5.9	1.6 J	<2.0	<200	<2.0	<400	<200	181 J	<20.0	9.2 J	<100
	07/09/2019	306	9.3	9.7	17.1	11.4	<2.0	<2.0	<200	<2.0	<400	<200	284	<20.0	<20.0	<100
		SSTL	13	9	10	17	11	2	--	--	--	1,000	200	284	--	100
01589 MW-33	9/19/2023	0 feet of free product														
	3/28/2023	7,370	26,200	2,400	14,100	118 J	394	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
	9/28/2022	12,100	46,300	3,770	19,800	217 J	394 J	<400	<40,000	<400	<80,000	<40,000	<40,000	<4,000	<4,000	<20,000
	3/29/2022	10,400	23,000	1,700	9,020	280	136 J	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
	10/13/2021	7,020	24,600	2,090	15,600	140 J	373	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
	5/13/2021	9,730	22,900	1,760	7,870	273	194	<125	<12,500	<125	<25,000	<12,500	8,710 J	<1,250	<1,250	<6,250
	03/04/2020	4,180	13,200	1,760	8,670	57.5 J	356	<125	<12,500	<125	<25,000	<12,500	<12,500	<1,250	<1,250	<6,250
	07/08/2019	0.11 feet of free product														
		SSTL	6	1,205	759	11,013	57	26	--	--	--	25,000	1,795	265	--	56
01589 MW-34	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/04/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	1.1	<200	<100	<100	<10.0	<10.0	<50.0
		SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100
01589 MW-35	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/04/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
		SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100
01589 MW-36	9/19/2023	3.2	5.2	15.3	8.3	<1.0	1.9 J	<1.0	<50.0	<1.0	<200	7.1 J	99	<2.0	<2.0	<20.0
	3/28/2023	10.9	<1.0	0.5 J	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	52.3 J	1,060	<10.0	<10.0	<50.0
	9/28/2022	1.2	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	137	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	0.6 J	<1.0	<1.0	<1.0	<1.0	<100	0.38 J	<200	52 J	798	<10.0	<10.0	<50.0
	10/14/2021	0.37 J	<1.0	1	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	120	<10.0	<10.0	<50.0
	4/21/2021	1.3	<1.0	4	<1.0	<1.0	0.73 J	<1.0	<100	<1.0	<200	<100	197	<10.0	<10.0	<50.0
	03/04/2020	1.3	10.0	59.9	67	<1.0	7.3	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	14.5	102	113	223	<1.0	12.9	<1.0	<100	<1.0	<200	<100	148	<10.0	<10.0	<50.0
		SSTL	6	102	113	223	5	13	--	--	--	1,000	100	148	--	100
01589 MW-37R	9/19/2023	<1.0	<1.0	<1.0	<3.0	2.3	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	0.37 J	<2.0	<20.0
01589 MW-37	3/28/2023	well destroyed														
	9/28/2022	well destroyed														
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	<1.0	<1.0	<1.0	<1.0	<1.0	0.65 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 MW-38R	9/19/2023	<5.0	<5.0	<5.0	<15.0	122	<25.0	<5.0	<25.0	2.2 J	<1,000	618	2,710	17.8	30.1	<100
01589 MW-38	3/28/2023	well destroyed														
	9/27/2022	0.5 J	<1.0	<1.0	<1.0	70.5	<1.0	<1.0	<100	1.5	<200	105	58.5 J	10.5	19.5	<50.0
	3/29/2022	33	<1.0	2.1	<1.0	9	<1.0	<1.0	<100	0.33 J	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	4.8	<1.0	2.1	<1.0	25.4	<1.0	<1.0	<100	0.75 J	<200	86.7 J	143	<10.0	8.8 J	<50.0
	4/21/2021	10	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	41.1	<1.0	<1.0	<1.0	3.1	1.5	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	73.6	<1.0	<1.0	2.1	11.2	<1.0	<1.0	<100	<1.0	<200	<100	138	<10.0	<10.0	<50.0
	SSTL	74	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 DMW-1	9/20/2023	0.65 J	2.6	0.72 J	3	<1.0	2.3 J	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	0.44 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	0.58 J	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/13/2021	0.76 J	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<1.0	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	5.5	1.3	0.95 J	<1.0	0.49 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	7.1	1.1	1.1	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	130	16	14	48	12	1.3	<1.0	<20	<1.0	<100	24	190	<10.0	6.5	<5.0
	SSTL	7	6	6	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 DMW-2	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<2.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 DMW-3	9/19/2023	<1.0	<1.0	<1.0	<3.0	8.6	<5.0	<1.0	<50.0	0.32 J	<200	<20.0	17.5 J	2	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	0.72 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	0.48 J	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<1.0	<1.0	<1.0	<1.0	0.31 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	<1.0	<1.0	<1.0	<1.0	0.31 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
11/29/2018	<1.0	1.2	<1.0	0.66 J	<1.0	<1.0	<1.0	<20	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 DMW-4	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/04/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 DMW-5	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/21/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/04/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
07/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 RW-1	9/20/2023	7,990	22,200	1,630	9,270	268 J	<2,500	<500	<25,000	<500	<100,000	<10,000	3,860 J	<1,000	<1,000	<10,000
	3/28/2023	0.03 feet of free product														
	9/28/2022	0.3 feet of free product														
	3/30/2022	9,810	17,500	840	5,020	1,310	<200	<200	<20,000	<200	105,000	<20,000	20.5	<2,000	<2,000	<10,000
	10/13/2021	0.07 feet of free product														
	4/20/2021	0.13 feet of free product														
	03/04/2020	0.81 feet of free product														
	07/10/2019	12,300	27,900	1,700	11,800	1,400	283	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
	11/28/2018	20,000	47,000	2,100	10,000	3,400	<500	<500	<10,000	<500	<50,000	5,100 J	34,000	<5,000	750	<2,500
	01589 RW-2	9/20/2023	6,950	17,400	1,410	6,300	989	<2,500	<500	<25,000	<500	68,000,000	<10,000	26,300	<1,000	<1,000
3/28/2023		1,470	3,880	272	1,260	71.6	63.5	<25.0	<2,500	<25.0	52,500	<2,500	1,020 J	<250	<250	<1,250
9/28/2022		2,740	6,050	411	2,190	166	128	<50.0	<5,000	<50.0	47,200	<5,000	<5,000	<500	<500	<2,500
3/30/2022		3,170	14,100	1,430	7,400	<500	<500	<500	<50,000	<500	3,850,000	<50,000	<5,000	<5,000	<5,000	<25,000
10/13/2021		14,700	41,400	3,620 J	18,000	<10,000	<10,000	<10,000	<1,000,000	<10,000	61,100,000	<1,000,000	<1,000,000	<100,000	<100,000	<500,000
4/20/2021		0.06 feet of free product														
03/04/2020		0.56 feet of free product														
07/08/2019		0.18 feet of free product														
11/28/2018		21,000	54,000	3,200	17,000	2,200	430J	<500	<10,000	<500	<50,000	13,000	31,000	<5,000	760	<2,500
01589 RW-3		9/20/2023	662	406	199	751	<10.0	42.5 J	<10.0	<500	<10.0	<2,000	<200	517	7.5 J	<20.0
	3/28/2023	8,080	15,400	999	9,730	275	353	<125	<12,500	<125	<25,000	<12,500	21,500	<1,250	<1,250	<6,250
	9/28/2022	5,890	28,700	3,510	21,300	117 J	396	<200	<20,000	<200	<40,000	<20,000	22,100	<2,000	<2,000	<10,000
	3/30/2022	10,500	29,400	2,150	11,900	274	318	<200	<20,000	<200	<40,000	<20,000	23,100	<2,000	<2,000	<10,000
	10/13/2021	8,420	24,900	1,760	14,700	198	403	<125	<12,500	<125	<25,000	<12,500	13,700	<1,250	<1,250	<6,250
	4/20/2021	0.06 feet of free product														
	03/04/2020	0.56 feet of free product														
	07/08/2019	1.56 feet of free product														
	11/28/2018	15,000	41,000	2,800	15,000	530	360J	<500	<10,000	<500	<50,000	<10,000	21,000	<5,000	<500	<2,500
	01589 RW-4	9/20/2023	29.8	<1.0	<1.0	1.1 J	<1.0	<5.0	<1.0	18.4 JB	<1.0	<200	<20.0	19.9 J	<2.0	<2.0
3/28/2023		9.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	37.6 J	<10.0	<10.0	<50.0
9/28/2022		11.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<400	<4.0	<800	<400	<400	<40.0	<40.0	<200
3/30/2022		0.93 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
10/13/2021		0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
4/22/2021		0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
03/04/2020		1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
07/10/2019		3.3	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
11/28/2018		15	5.6	2.8	6.9	<1.0	<1.0	<1.0	<20	<1.0	<100	<20	77	<10	<1.0	<5.0
SSTL		3	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 RW-5	9/20/2023	1,170	1,700	549	2,770	552	80.7 J	<20.0	<1,000	<20.0	<4,000	<400	13,500	40	<40.0	<400
	3/28/2023	0.22 feet of free product														
	9/28/2022	0.2 feet of free product														
	3/30/2022	0.04 feet of free product														
	10/13/2021	0.13 feet of free product														
	4/20/2021	0.75 feet of free product														
	03/04/2020	2.52 feet of free product														
	07/08/2019	1.64 feet of free product														
11/28/2018	0.36 feet of free product															
01589 RW-6	9/20/2023	550	1,110	182	2,190	108	67.8 J	<20.0	<1,000	<20.0	<4,000	<400	3,040	18.4 J	<40.0	<400
	3/28/2023	0.59 feet of free product														
	9/28/2022	0.3 feet of free product														
	3/30/2022	0.01 feet of free product														
	10/13/2021	1.19 feet of free product														
	4/20/2021	0.37 feet of free product														
	03/04/2020	1.67 feet of free product														
	07/08/2019	2 feet of free product														
	11/28/2018	1.67 feet of free product														
01589 RW-7	9/20/2023	2,810	7,810	853	6,620	468	111 J	<100	<5,000	<100	<20,000	<2,000	24,000	35.3 J	<200	<2,000
	3/28/2023	8,830	13,400	757	6,880	266	154	<125	<12,500	<125	<25,000	<12,500	26,100	<1,250	<1,250	<6,250
	9/28/2022	12,300	23,800	1,250	11,600	229	179 J	<200	<20,000	<200	<40,000	<20,000	22,300	<2,000	<2,000	<10,000
	3/30/2022	14,600	24,100	1,130	9,820	447	228	<200	<20,000	<200	<40,000	<20,000	26,500	<2,000	<2,000	<10,000
	10/13/2021	0.12 feet of free product														
	4/20/2021	0.2 feet of free product														
	03/04/2020	0.16 feet of free product														
07/08/2019	0.45 feet of free product															

Table 3
Historical Groundwater Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-amyl alcohol	tert-amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 RW-8	9/20/2023	88	117	44	410	<5.0	30	<5.0	<250	<5.0	<1,000	85.6 J	1,020	4.7 J	17	<100
	3/29/2023	894	1,250	339	2,980	62	85	<10.0	<1,000	<10.0	<2,000	438 J	6,410	<100	36.6 J	<500
	9/28/2022	3,050	4,360	881	6,290	136	140	<25.0	<2,500	<25.0	<5,000	738 J	12,400	<250	<250	<1,250
	3/30/2022	1,580	3,630	396	4,170	62.3	187	<20.0	<2,000	<20.0	<4,000	<2,000	3,900	<200	<200	<1,000
	10/14/2021	878	1,970	529	2,680	25.2	168	<20.0	<2,000	<20.0	<4,000	<2,000	2,360	<200	<200	<1,000
	4/20/2021	0.53 feet of free product														
	03/04/2020	1,690	3,550	587	2,570	48	103	<25.0	<2,500	<25.0	<5,000	<2,500	3,900	<250	<250	<1,250
	07/08/2019	0.3 feet of free product														
01589 RW-9	9/20/2023	567	1,580	192	1,300	395	40.1 J	<20.0	<1,000	<20.0	2,440 J	<400	7,200	13.1 J	<40.0	<400
	3/29/2023	0.13 feet of free product														
	9/28/2022	0.12 feet of free product														
	3/30/2022	2,760	5,890	459	2,450	714	69.7	<50.0	<5,000	<50.0	233,000	2,240 J	19,200	<500	204 J	<2,500
	10/14/2021	0.06 feet of free product														
	4/20/2021	0.12 feet of free product														
	03/04/2020	13,600	31,200	2,460	12,500	2,250	446	<200	<20,000	<200	831,000	10,200 J	82,800	<2,000	<2,000	<10,000
	07/08/2019	0.86 feet of free product														
01589 RW-10	9/20/2023	436	1,610	294	1,270	<20.0	29.0 J	<20.0	<1,000	<20.0	<4,000	<400	787	<40.0	<40.0	<400
	3/29/2023	0.02 feet of free product														
	9/28/2022	6,420	17,100	1,390	7,390	95.3 J	329	<125	<12,500	<125	<25,000	<12,500	22,400	<1,250	<1,250	<6,250
	3/30/2022	0.02 feet of free product														
	10/14/2021	0.01 feet of free product														
	4/20/2021	0.22 feet of free product														
	03/04/2020	0.57 feet of free product														
	07/08/2019	1.37 feet of free product														
01589 RW-11A	9/19/2023	emulsified product, est. thickness 0.1 ft.														
01589 RW-11A	9/19/2023	emulsified product, est. thickness 0.25 ft.														
01589 RW-11	3/29/2023	well abandoned														
	9/28/2022	emulsified product, thickness not available														
	3/30/2022	2.46 feet of free product														
	10/15/2021	4.94 feet of free product														
	04/20/2020	0.68 feet of free product														
	03/04/2020	6.0 feet of free product														
	07/08/2019	1.5 feet of free product														
	01589 RW-12	9/19/2023	659	6,900	1,050	9,410	<100	104 J	<100	<5,000	<100	112,000	<2,000	800	<200	<200
3/29/2023		2,190	11,800	1,160	11,100	<100	277	<100	<10,000	<100	<20,000	<10,000	<10,000	<1,000	<1,000	<5,000
9/28/2022		2,070	9,639	636	10,300	<50	233	<50.0	<5,000	<50.0	<10,000	<5,000	2,060 J	<500	<500	<2,500
3/30/2022		2,960	6,480	597	4,900	83.5	109	<50.0	<5,000	<50.0	<10,000	<5,000	2,940 J	<500	<500	<2,500
10/15/2021		2,040	2,390	241	2,160	77.3	61	<20.0	<2,000	<20.0	<4,000	<2,000	2,940	<200	<200	<1,000
4/22/2021		7,280	3,620	542	4,630	261	123	<50.0	<5,000	<50.0	<10,000	<5,000	11,100	<500	184 J	<2,500
03/04/2020		Heavy sheen of free product (< 0.01 ft.)														
07/10/2019		4,360	6,410	556	5,080	236	170	<50.0	<5,000	<50.0	<10,000	<5,000	5,030	<500	<500	<2,500
SSTL		5	1,144	556	5,080	45	26	--	--	--	1,000	1,453	264	--	51	--

Units = µg/L
 c = Not detected at or above the laboratory reporting limit (RL)
 J' flag = estimated result < RL but >MDL
 SSTL = SCDHEC calculated Site Specific Target Level
 Bold concentrations equal or exceed the corresponding SSTL

Table 4
Water Well Analytical Data
2nd Half 2023
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L) by 524.2							Oxygenates (ug/L) by 8260B							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total (1)	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-12	9/20/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-13	9/20/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0

Notes:

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

1: Reporting limit for m,p xylenes is 0.05 ug/L; for o-xylene, 1 ug/L

water well WSW-16 was not accessible for this sample period

Table 5
Historical Water Well Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-1	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-2D	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-2	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-3	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-4	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/20/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-5	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-6	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-7	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-8	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-9	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-10	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/20/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-11	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

Table 5
Historical Water Well Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-12	9/20/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-13	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
	9/20/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-14	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/29/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-15	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-16	4/22/2021	well has been decommissioned according to owner														
	7/8/2019	sample collection permission was not granted														
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
	9/20/2023	well was not accessible for sampling														
	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/31/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-17	4/29/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/5/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
8/31/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0	

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

Table 5
Historical Water Well Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-18	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-19	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-20	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-21	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-22	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-23	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-24	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-25	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-26	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-27	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-28	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-29	7/8/2019	sample collection permission was not granted; the property is currently provided potable water from a municipal source														
	8/23/2018	sample collection permission was not granted; the property is currently provided potable water from a municipal source														

Units = ug/L

*"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

Table 6
Surface Water Analytical Data
2nd Half 2023
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 SW-1	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-2	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-3	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-4	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-5	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-6	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-7	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
01589 SW-8	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
01589 SW-9	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	5.2 J	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE

Notes:

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

Table 7
Historical Surface Water Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE
01589 SW-1	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	Not Sampled-Dry														
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	Not Sampled-Dry														
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10	<1.0	<5.0
01589 SW-2	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/12/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<50.0
01589 SW-3	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	0.72 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/12/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	<1.0	0.34	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	8	<50.0
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/29/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<50
01589 SW-4	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	0.51 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/29/2022	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/12/2021	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	Not Sampled-Dry														
	03/06/2020	<1.0	0.53 J	<1.0	1.8	0.66 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	150	750	34	380	<5.0	8	<5.0	<100	<5.0	<500	<100	<100	<50	<5.0	<25
01589 SW-5	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/12/2021	Not Sampled-Dry														
	04/22/2021	Not Sampled-Dry														
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
01589 SW-6	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	Not Sampled-Dry														
	3/30/2022	Not Sampled-Dry														
	10/12/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	0.67 J	1.2	4.4	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/06/2020	<1.0	<1.0	0.46 J	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0

Table 7
Historical Surface Water Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes:Total	Methyl tert butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE
01589 SW-7	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
01589 SW-8	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
01589 SW-9	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	5.2 J	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	04/22/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/06/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0

Units = µg/L
 "<" = Not detected at or above the laboratory reporting limit
 RBSL = Risk Based Screening Level
 Bold concentrations equal or exceed the corresponding RBSL
 NE = Not established

Table 8
Data Quality Indicator Analyses
Monitoring and Recovery Wells
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Precision Analysis																	
Precision Limit (RPD %)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
01589 MW-3	9/20/23 @ 1228	49.2	4.3	3.0	7.1	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	41.6	<10.0	<10.0	<100	5 x dilution factor
01589 DUP-1	9/20/23 @ 1231	54.4	<20.0	<20.0	<60.0	<20.0	<100	<20.0	<1,000	<20.0	<4,000	<400	<400	<40	<40	<400	20 x dilution factor
RPD (%)		10%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
01589 MW-32	9/20/23 @1245	11.2	0.65	1.6	2.5	7.2	<5.0	<1.0	<50.0	0.68	<200	26.4	112	3	24.8	<20.0	
01589 DUP-2	9/20/23 @1248	28.7	0.97	4.0	4.3	7.1	1.2	<1.0	<50.0	0.64	<200	24.9	126	2.9	23.3	<20.0	1 x, 10 x dilution factor
RPD (%)		88%	40%	86%	53%	1%	---	---	---	6%	---	6%	12%	3%	6%	---	RPD > 20% from "J"-flagged results
01589 MW-36	9/20/23 @ 1023	3.2	5.2	15.3	8.3	<1.0	1.9	<1.0	<50.0	<1.0	<200	7.1	98.8	<2.0	<2.0	<20.0	
01589 DUP-3	9/20/23 @ 1026	3.2	5.7	20.2	9.9	<1.0	2.0	<1.0	<50.0	<1.0	<200	<20.0	84.1	<2.0	<2.0	<20.0	
RPD (%)		0%	9%	28%	18%	---	5%	---	---	---	---	---	16%	---	---	---	
Bias Analysis																	
01589 FB-1	9/19/2023	<1.0	0.4 J	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	trace toluene detected
01589 FB-2	9/20/2023	<1.0	0.36 J	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	trace toluene detected
01589 Trip Blank 1	--	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	No Errors Indicated
01589 Trip Blank 2	--	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0	No Errors Indicated
Method Sensitivity																	
Sensitivity Limits (GW - ug/L)		5	5	5	5	10	5	5	100	10	1,000	100	100	10	100	100	
01589 MW-1	9/20/2023	31.0	150	36.0	72.0	23.0	100	31.0	1,000	24.0	8,200	530	530	24.0	24.0	500	100 x dilution; 500 x for toluene
01589 MW-2	9/20/2023	16.0	15.0	18.0	36.0	11.0	50.0	16.0	500	12.0	4,100	270	260	12.0	12.0	250	50 x dilution
01589 MW-3	9/20/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0	5 x dilution
01589 MW-4	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-5	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-6	9/20/2023	16.0	15.0	18.0	36.0	11.0	50.0	16.0	500	12.0	4,100	1,100	260	12.0	12.0	250	50 x dilution; 200 x for Tba
01589 MW-7	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-8	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-9	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-10	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-11	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-12	9/20/2023	3.1	3.0	3.6	7.2	2.3	10.0	3.1	100	2.4	820	53.0	53.0	2.4	2.5	50.0	10 x dilution
01589 MW-13	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-14	9/19/2023	3.1	3.0	3.6	7.2	2.3	10.0	3.1	100	2.4	820	53.0	53.0	2.4	2.5	50.0	10 x dilution
01589 MW-15	9/19/2023	7.8	7.5	8.9	18.0	5.7	25.0	7.8	250	6.0	2,000	130	130	6.1	5.9	130	25 x dilution
01589 MW-16	9/19/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0	5 x dilution
01589 MW-17	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-18	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-19	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	
01589 MW-20	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0	

Units = ug/L

*< = Not detected above the laboratory reporting limit

NT = not tested for this parameter

*** = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

Table 8
Data Quality Indicator Analyses
Monitoring and Recovery Wells
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	
Method Sensitivity																
Sensitivity Limits (GW - ug/L)		5	5	5	5	10	5	5	100	10	1,000	100	100	10	100	100
01589 MW-21	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-22	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-23	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-24	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-25	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-26R	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-27	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-28	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-29R	9/19/2023	3.1	3.0	3.6	7.2	2.3	10.0	3.1	100	2.4	820	53.0	53.0	2.4	2.5	50.0
01589 MW-30	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-31	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-32	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-34	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-35	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-36	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-37R	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 MW-38R	9/19/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0
01589 DMW-1	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 DMW-2	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 DMW-3	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 DMW-4	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 DMW-5	9/19/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 RW-1	9/20/2023	160	150	180	360	110	500	160	5,000	120	41,000	2,700	2,600	120	120	2,500
01589 RW-2	9/20/2023	160	150	180	360	110	500	160	5,000	120	4,100,000	2,700	2,600	120	120	2,500
01589 RW-3	9/20/2023	3.1	3.0	3.6	7.2	2.3	10.0	3.1	100	2.4	820	53.0	53.0	2.4	2.5	50.0
01589 RW-4	9/20/2023	0.31	0.3	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82.0	5.3	5.3	0.24	0.24	5.0
01589 RW-5	9/20/2023	6.2	60.0	7.1	14.0	4.6	20.0	6.2	200	4.8	1,600	110	110	4.9	4.7	100
01589 RW-6	9/20/2023	6.2	6.0	7.1	14.0	4.6	20.0	6.2	200	4.8	1,600	110	110	4.9	4.7	100
01589 RW-7	9/20/2023	31.0	30.0	36.0	72.0	23.0	100	31.0	1,000	24.0	8,200	530	530	24.0	24.0	500
01589 RW-8	9/20/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0
01589 RW-9	9/20/2023	6.2	6.0	7.1	14.0	4.6	20.0	6.2	200	4.8	1,600	110	110	4.9	4.7	100
01589 RW-10	9/20/2023	6.2	6.0	7.1	14.0	4.6	20.0	6.2	200	4.8	1,600	110	110	4.9	4.7	100
01589 RW-12	9/19/2023	31.0	30.0	36.0	72.0	23.0	100	31.0	1,000	24.0	41,000	530	530	24.0	24.0	500

Units = ug/L

c = Not detected above the laboratory reporting limit

NT = not tested for this parameter

*** = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

Table 9
Data Quality Indicator Analyses
Water Wells
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Total Xylenes (1)	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Precision Analysis																	
Precision Limit (RPD %)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
01589 WSW-12	9/20/23 @ 1425	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no detections
WSW-DUP	9/20/23 @ 1428	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
RPD (%)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Bias Analysis																	
TRIP BLANK	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no errors indicated
01589 WSW-FB	9/20/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no errors indicated
Method Sensitivity																	
Sensitivity Limits (GW - µg/L)		5.0	5.0	5.0	10.0	5.0	5.0	5.0	100	10.0	1,000	100	100	10.0	100	100	
01589 WSW-12	9/20/2023	0.21	0.2	0.22	0.39/0.22	0.14	0.35	0.16	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 WSW-13	9/20/2023	0.21	0.2	0.22	0.39/0.22	0.14	0.35	0.16	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	

Notes:

Units = µg/L

(1) For sensitivity limits of xylenes, first DL is reported for m&p xylene, second for o-xylene

NE = not established

*** = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

Table 10
Data Quality Indicator Analyses
Surface Water Samples
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Method Sensitivity																	
Sensitivity Limits (GW - µg/L)		5.0	5.0	5.0	10.0	5.0	5.0	5.0	100	10.0	1,000	100	100	10.0	100	100	
01589 SW-1	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-2	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-3	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-4	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-5	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-6	9/19/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-7	9/20/2023	0.31	0.30	0.36	0.72	0.23	1.0	0.31	10.0	0.24	82	5.3	5.3	0.24	0.24	5.0	
01589 SW-8	9/20/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0	5 x dilution required
01589 SW-9	9/20/2023	1.6	1.5	1.8	3.6	1.1	5.0	1.6	50.0	1.2	410	27.0	26.0	1.2	1.2	25.0	5 x dilution required

Notes:
Units = µg/L
NE = not established

Table 11
Calculation of COC Reduction
2nd Half 2023
Circle K 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 MW-1	Initial	Initial	17,700	40,400	2,290	11,400	1,850	0	0	0	0	0	73,640.00	-----	-----	
		SSSL	6	1,324	869	11,400	51	28	295	1,526	21,596	57	37,152.00	-----	-----	
		Initial > SSSL	17,694	39,076	1,421	0	1,799	0	0	0	0	0	0	-----	59,990.00	
	9/20/23	Subsequent	7,400	19,100	1,070	5,080	294	0	5,130	965	0	232	39,271.00	-----	-----	
		SSSL	6	1,324	869	11,400	51	28	295	1,526	21,596	57	37,152.00	-----	-----	
		Subsequent > SSSL	7,394	17,776	201	0	243	0	4,835	0	0	175	-----	-----	30,624.00	
01589 MW-2	Initial	Initial	10,000	21,600	1,690	9,250	559	236	16,200	0	0	0	59,535.00	-----	-----	
		SSSL	5	1,144	775	9,250	45	26	264	1,453	14,610	51	27,623.00	-----	-----	
		Initial > SSSL	9,995	20,456	915	0	514	210	15,936	0	0	0	0	-----	48,026.00	
	9/20/23	Subsequent	2,460	2,470	200	1,100	0	0	1,530	0	0	23	7,783.00	-----	-----	
		SSSL	5	1,144	775	9,250	45	26	264	1,453	14,610	51	27,623.00	-----	-----	
		Subsequent > SSSL	2,455	1,326	0	0	0	0	1,266	0	0	0	-----	-----	5,047.00	
01589 MW-3	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.000	
	9/20/23	Subsequent	49.2	4.3	3	7.1	0	0	41.6	0	0	0	0	105.20	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSSL	44	0	0	0	0	0	0	0	0	0	-----	-----	44.200	
01589 MW-4	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	9/20/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-5	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	9/20/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	63	-----	-----	63.00	
01589 MW-6	Initial	Initial	16,400	28,900	2,190	8,920	1,990	272	42,200	5,410	0	0	106,282.00	-----	-----	
		SSSL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	57,986.00	-----	-----	
		Initial > SSSL	16,388	25,191	185	0	1,859	226	41,542	3,027	0	0	-----	88,418.00		
	9/20/23	Subsequent	1,830	4,070	337	4,130	459	189	11,700	1,500	0	185	24,400.00	-----	-----	
		SSSL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	57,986.00	-----	-----	
		Subsequent > SSSL	1,818	361	0	0	328	143	11,042	0	0	63	-----	-----	13,755.00	
01589 MW-7	Initial	Initial	9,210	34,100	2,390	12,700	0	271	0	0	0	0	58,671.00	-----	-----	
		SSSL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	68,703.00	-----	-----	
		Initial > SSSL	9,189	25,600	0	0	0	204	0	0	0	0	0	-----	34,993.00	
	9/20/23	Subsequent	1.1	0	0.39	0	0	0.0	23	0	0	0	24.49	-----	-----	
		SSSL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	68,703.00	-----	-----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-8	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	9/20/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-9	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	9/20/23	Subsequent	0	0	0	0	2.8	0	0	0	0	0	2.80	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	

Table 11
Calculation of COC Reduction
2nd Half 2023
Circle K 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 MW-10	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		
01589 MW-11	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		
01589 MW-12	Initial	Initial	410	12.7	46.5	24.5	9.8	9.1	1,370	0	0	25.9	1,908.50	-----	-----	
		SSSL	7	13	47	25	10	9	382	250	1,000	26	1,769.00	-----	-----	
	9/20/23	Initial > SSSL	403	0	0	0	0	0	988	0	0	0	0	1,391.10	-----	-----
		Subsequent	71.7	6.6	7.9	0.0	0	0	260	0	0	6.6	352.80	-----	-----	
		SSSL	7	13	47	25	10	9	382	250	1,000	26	1,769.00	-----	-----	
Subsequent > SSSL	65	0	0	0	0	0	0	0	0	0	0	0.00	-----	64.70		
01589 MW-13	Initial	Initial	31.2	19.5	490	1,630	0	164	0	0	0	0	2,334.70	-----	-----	
		SSSL	7	20	490	1,630	5	30	334	500	1,000	100	4,116.00	-----	-----	
	9/19/23	Initial > SSSL	24	0	0	0	0	134	0	0	0	0	0	158.20	-----	-----
		Subsequent	0	0.0	0.5	1.4	0	0	0	0	0	0	0	1.90	-----	-----
		SSSL	7	20	490	1,630	5	30	334	500	1,000	100	4,116.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		
01589 MW-14	Initial	Initial	0	0	0	0	0	4.1	0	0	0	0	4.10	-----	-----	
		SSSL	5	5	5	10	5	4	100	100	1,000	100	1,334.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.10	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	4	100	100	1,000	100	1,334.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		
01589 MW-15	Initial	Initial	2,840	7,910	982	4,850	0	120	6,950	0	0	0	23,652.00	-----	-----	
		SSSL	7	1,534	870	4,850	50	29	382	1,758	10,000	73	19,553.00	-----	-----	
	9/19/23	Initial > SSSL	2,833	6,376	112	0	0	91	6,568	0	0	0	0	15,980.00	-----	-----
		Subsequent	618	1,520	192	894	0	0	212	0	0	10	3,446.00	-----	-----	
		SSSL	7	1,534	870	4,850	50	29	382	1,758	10,000	73	19,553.00	-----	-----	
Subsequent > SSSL	611	0	0	0	0	0	0	0	0	0	0	0.00	-----	611.00		
01589 MW-16	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	2.2	0	0	0	0	0	0	0	0	0	2.20	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		
01589 MW-17	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.000	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	0.00		

Table 11
Calculation of COC Reduction
2nd Half 2023
Circle K 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass
01589 MW-18	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.000	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-19	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-20	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-21	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-22	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-23	Initial	Initial	0	0	0	0	1.8	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0.0	0	0	0	0	0	0	0.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-24	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	1.0	0	0	0	0	0	0	1.00	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00		
01589 MW-25	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	13.2	0	0	0	2.1	0	0	0	0	0	0	15	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----
Subsequent > SSTL	8	0	0	0	0	0	0	0	0	0	0	-----	8.20		

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Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 MW-26R	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	8.9	0	121	14.7	0	5.3	0	149.90	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	4	0	21	0	0	0	0	-----	-----	24.90		
01589 MW-27	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 MW-28	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 MW-29R	Initial	Initial	2.2	0	0	0	7.4	0	0	0	0	0	0	9.60	-----	-----
		SSSL	5	5	5	10	7	5	100	100	1,000	100	1,337.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	164	0	6,450	835	0	36.4	0	7,485	-----	-----
		SSSL	5	5	5	10	7	5	100	100	1,000	100	1,337.00	-----	-----	
Subsequent > SSSL	0	0	0	0	157	0	6,350	735	0	0	0	-----	-----	7,242.00		
01589 MW-30	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 MW-31	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 MW-32	Initial	Initial	306	9.3	9.7	17.1	11.4	0	284	0	0	0	0	637.50	-----	-----
		SSSL	13	9	10	17	11	2	284	200	1,000	100	1,646.00	-----	-----	
	9/19/23	Initial > SSSL	293	0	0	0	0	0	0	0	0	0	0	293.80	-----	-----
		Subsequent	11	0.65	2	2.5	7.2	0	112	26	0	24.8	0	162	-----	-----
		SSSL	13	9	10	17	11	2	284	200	1,000	100	1,646.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 MW-33	Initial	Initial	4,180	13,200	1,760	8,670	57.5	356	0	0	0	0	0	27,867.50	-----	-----
		SSSL	6	1,205	759	11,013	57	26	265	1,795	25,000	56	0	40,182.00	-----	-----
	3/28/23 (1)	Initial > SSSL	4,174	11,995	1,001	0	1	330	0	0	0	0	0	17,500.50	-----	-----
		Subsequent	7,370	26,200	2,400	14,100	118	394	0	0	0	0	0	50,582	-----	-----
		SSSL	6	1,205	759	11,013	57	26	265	1,795	25,000	56	0	40,182.00	-----	-----
Subsequent > SSSL	7,364	24,995	1,641	3,087	61	368	0	0	0	0	0	-----	-----	37,516.00		

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Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 MW-34	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 MW-35	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 MW-36	Initial	Initial	14.5	102	113	223	0	12.9	148	0	0	0	613.40	-----	-----	
		SSSL	6	102	113	223	5	13	148	100	1,000	100	1,810.00	-----	-----	
	9/19/2023	Initial > SSSL	9	0	0	0	0	0	0	0	0	0	0	8.50	-----	-----
		Subsequent	3.2	5.2	15.3	8.3	0	1.9	99	7.1	0	0	0	140	-----	-----
		SSSL	6	102	113	223	5	13	148	100	1,000	100	1,810.00	-----	-----	
01589 MW-37R	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 MW-38R	Initial	Initial	73.6	0	0	0	11.2	0	138	0	0	0	222.80	-----	-----	
		SSSL	74	5	5	2	11	5	100	100	1,000	100	1,402.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	38	0	0	0	0	0.20	-----	-----
		Subsequent	0.0	0	0	0	122	0	618	2,710	0	30.1	0	3,480	-----	-----
		SSSL	74	5	5	2	11	5	100	100	1,000	100	1,402.00	-----	-----	
01589 DMW-1	Initial	Initial	7.1	1.1	1.1	0	0	0	0	0	0	0	9.30	-----	-----	
		SSSL	7	6	6	10	5	5	100	100	1,000	100	1,339.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.10	-----	-----
		Subsequent	0.65	2.6	0.72	3	0	2.3	0	0	0	0	0	9	-----	-----
		SSSL	7	6	6	10	5	5	100	100	1,000	100	1,339.00	-----	-----	
01589 DMW-2	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 DMW-3	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	8.6	0	0	0	0	0	0	9	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 DMW-4	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 DMW-4	9/19/23	Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	

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Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 DMW-5	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 RW04	Initial	Initial	3.3	0	0	0	1.4	0	0	0	0	0	4.70	-----	-----	
		SSSL	3	5	5	10	5	5	100	100	1,000	100	1,333.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.30	-----	-----
		Subsequent	29.8	0	0	1.1	0	0	19.9	0	0	0	0	51	-----	-----
		SSSL	3	5	5	10	5	5	100	100	1,000	100	1,333.00	-----	-----	
Subsequent > SSSL	27	0	0	0	0	0	0	0	0	0	0	-----	-----	26.80		
01589 RW12	Initial	Initial	4,360	6,410	556	5,080	236	170	5,030	0	0	0	21,842.00	-----	-----	
		SSSL	5	1,144	556	5,080	45	26	264	1,453	10,000	51	18,624.00	-----	-----	
	9/19/23	Initial > SSSL	4,355	5,266	0	0	191	144	4,766	0	0	0	-----	9,956.00	-----	-----
		Subsequent	659	6,900	1,050	9,410	0	104	800	0	112,000	0	18,923	-----	-----	
		SSSL	5	1,144	556	5,080	45	26	264	1,453	10,000	51	18,624.00	-----	-----	
Subsequent > SSSL	654	5,756	494	4,330	0	78	536	0	102,000	0	-----	-----	113,848.00			
01589 WSW12	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 WSW13	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 WSW16	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
	3/28/23 (2)	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW01	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		

Table 11
Calculation of COC Reduction
2nd Half 2023
Circle K 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

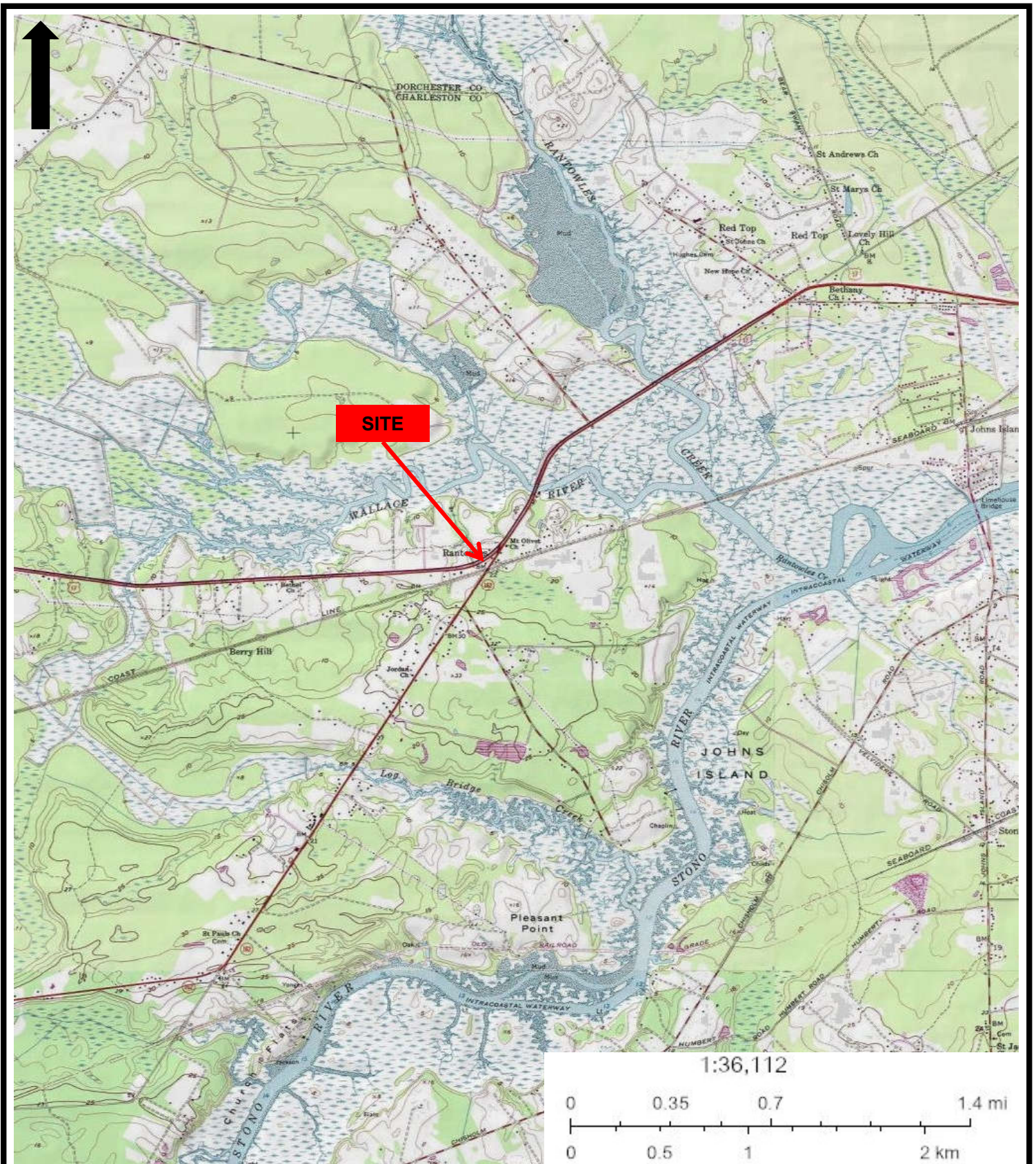
Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 SW02	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW03	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW04	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	5	750	34	380	5	8	100	100	1,000	100	2,482.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW05	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/19/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0.0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW07	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW08	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00		
01589 SW09	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	9/20/23	Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	5.2	0	0	0	0	5.20	-----	-----
		SSSL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
Subsequent > SSSL	0	0	0	0	0	0	3	0	0	0	0	-----	-----	3.20		

All concentrations reported in micrograms per liter
 SSSL = Site-Specific Target Level.
 COC Concentration Reduction = $\frac{(\text{Total Initial} > \text{SSSL}) - (\text{Total Subsequent} > \text{SSSL})}{\text{Total Initial} > \text{SSSL}} \times 100\%$
 For values less than the reporting limit, the reporting limit value was used.

276,716.20	181,496.60
	34.41%

Note:
 1. for MW-33, due to the presence of residual NAPL, dissolved COC levels from 3/28/23 are utilized
 2. for WSW-16, due the inability to access this well, dissolved COC levels from 3/28/23 are utilized

FIGURES



6904 N. Main Street, Suite 107
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**FIGURE 1
 SITE LOCATION MAP**

PROJECT NO.: 257CK88613

CIRCLE K STORE # 2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

FIGURE 1	SCALE:	REVIEWED BY: BH
DRAWN BY: CM	DATE: 2/2023	FILE: 2023 CASE

- BENCHMARK
- TELEPHONE PEDESTAL
- STORM DRAIN MAN HOLE
- TELEPHONE HAND HOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- SIGNAL POLE
- POWER POLE
- LIGHT POLE
- UNDERGROUND STORAGE TANK FILL
- ROLL TOP CATCH BASIN
- SIGN
- SANITARY SEWER CLEAN OUT
- TRAFFIC SIGNAL HAND HOLE
- DROP INLET
- TRAFFIC SIGNAL CONTROL BOX
- OVERHEAD ELECTRIC LINE
- WATER LINE
- FIBER OPTIC LINE
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL

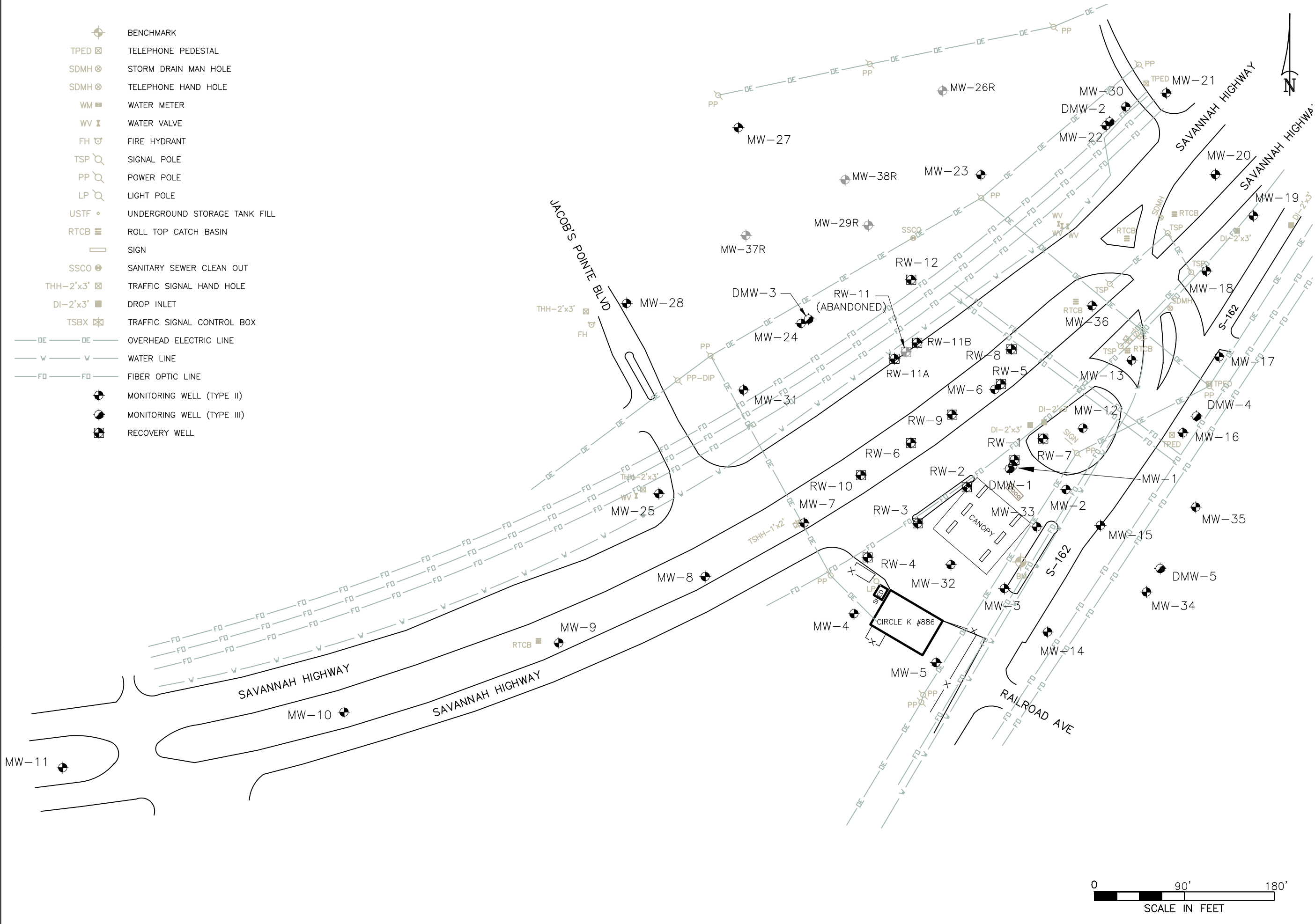



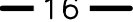
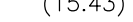





FIGURE 2
 TITLE: UST PERMIT #01589
 SITE MAP WITH MONITORING & RECOVERY WELL NETWORK
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

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NOTES:

CAD FILE	1252215.dwg	TYPE CODE		PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	10/23/2023	PROJECT NO.	257CK88613		

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  GROUNDWATER ELEVATION CONTOUR (ft.)
-  (15.43) GROUNDWATER ELEVATION (ft.)
-  INFERRED GROUNDWATER FLOW DIRECTION
-  (NI) DATA NOT INCLUDED IN DEVELOPING THIS FIGURE
-  (NM) NOT MEASURED

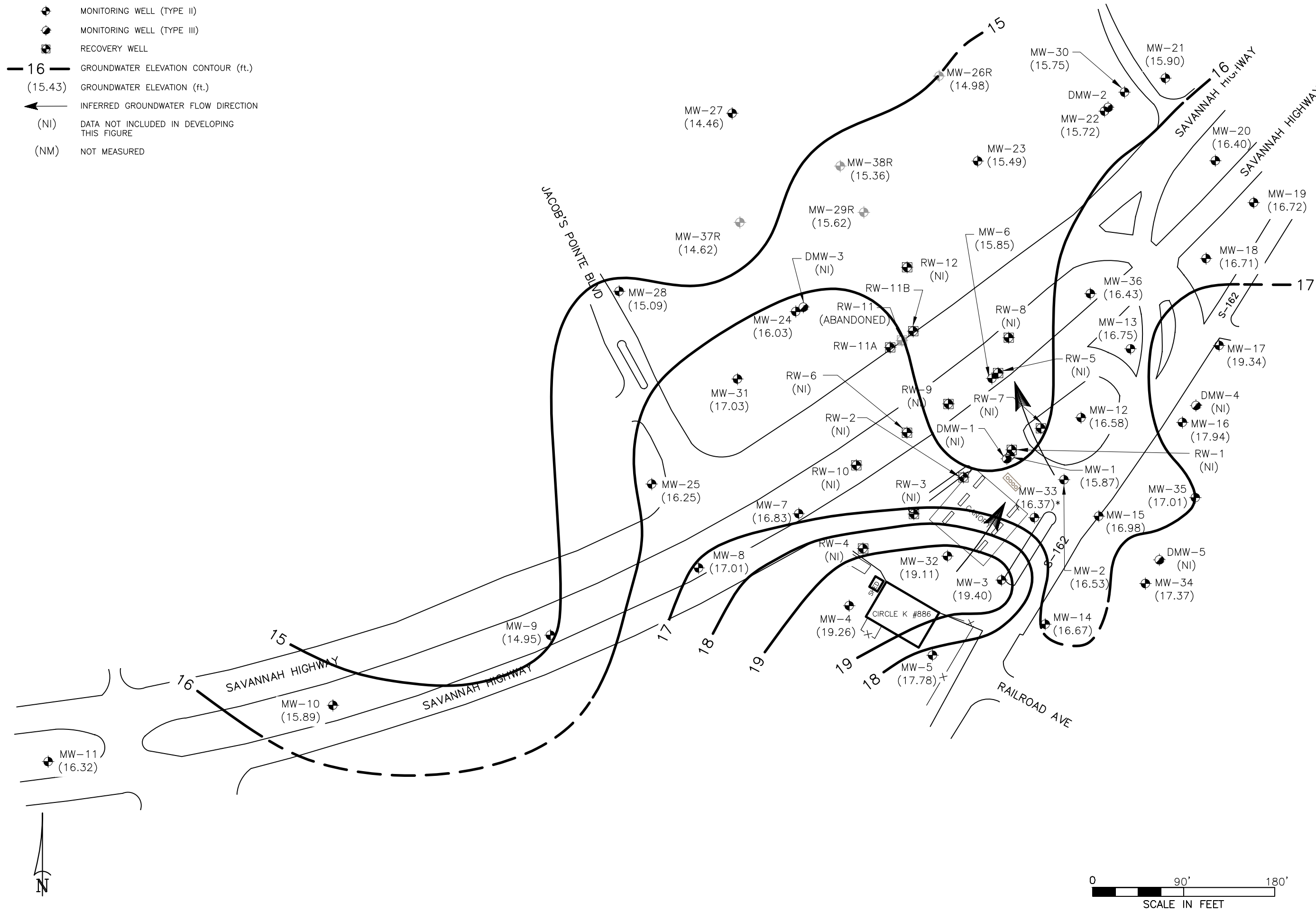


FIGURE 3
 UST PERMIT #01589
 POTENTIOMETRIC SURFACE MAP - SHALLOW WELLS
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

CAD FILE
 1252215.dwg

PREP. BY
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REV. BY





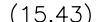


SCALE
 1"=90'

DATE
 10/23/2023

PROJECT NO.
 257CK88613



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-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  GROUNDWATER ELEVATION CONTOUR (ft.)
-  (15.43) GROUNDWATER ELEVATION (ft.)
-  INFERRED GROUNDWATER FLOW DIRECTION
-  (NI) DATA NOT INCLUDED IN DEVELOPING THIS FIGURE

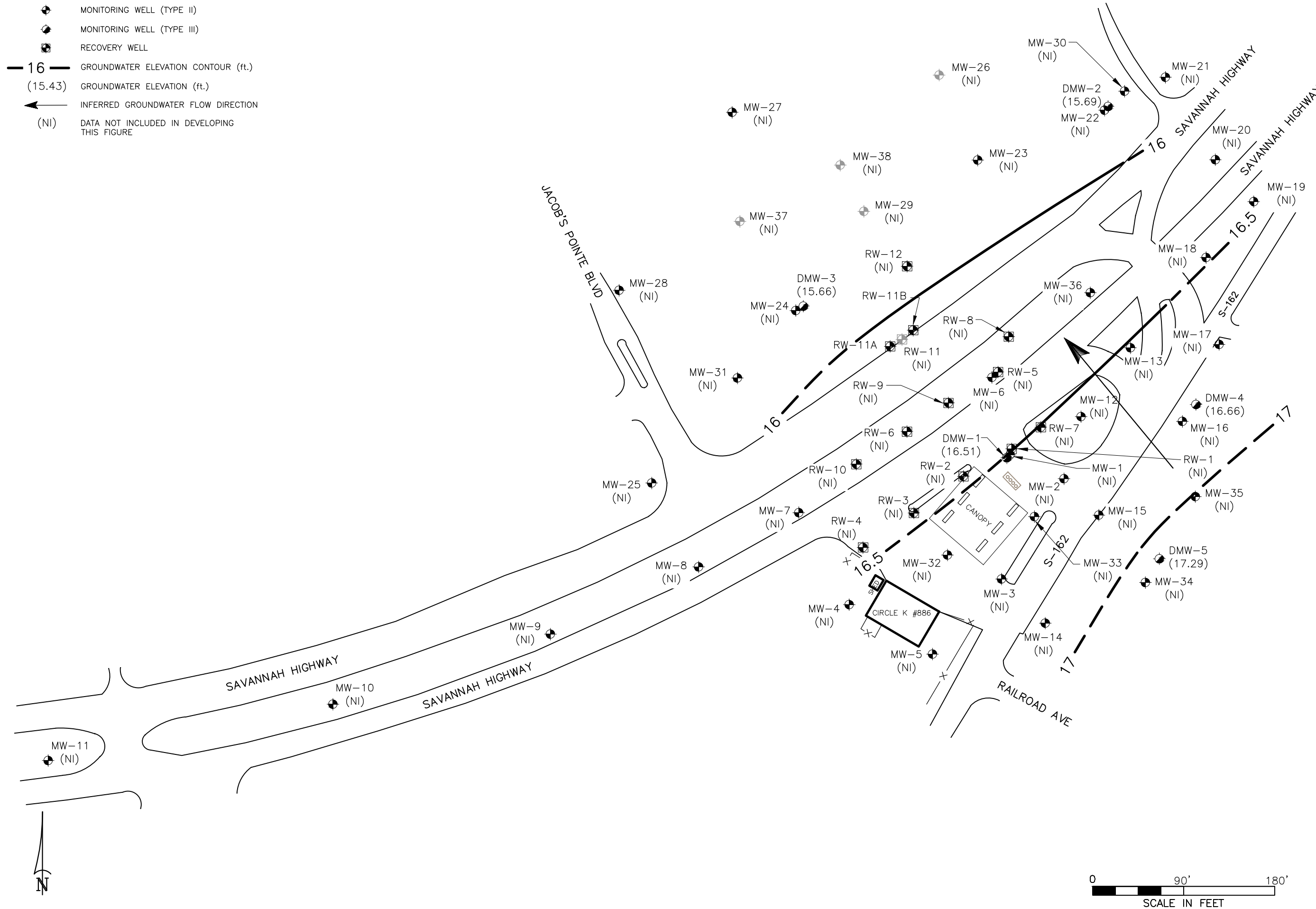


FIGURE 4 UST PERMIT #01589
 POTENTIOMETRIC SURFACE MAP - DEEP WELLS
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.



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SCALE 1"=90'	DATE 10/23/2023	PROJECT NO. 257CK88613
CAD FILE 1252215.dwg	TYPE CODE BH	REV. BY

- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED BENZENE >10,000 ug/L
- DISSOLVED BENZENE 1,000-10,000 ug/L
- DISSOLVED BENZENE 100-1,000 ug/L
- DISSOLVED BENZENE 1-100 ug/L
- DETECTABLE FREE PRODUCT
- NO VALUE SHOWN INDICATES BENZENE BELOW DETECTION LEVEL

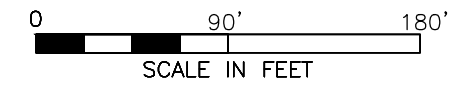
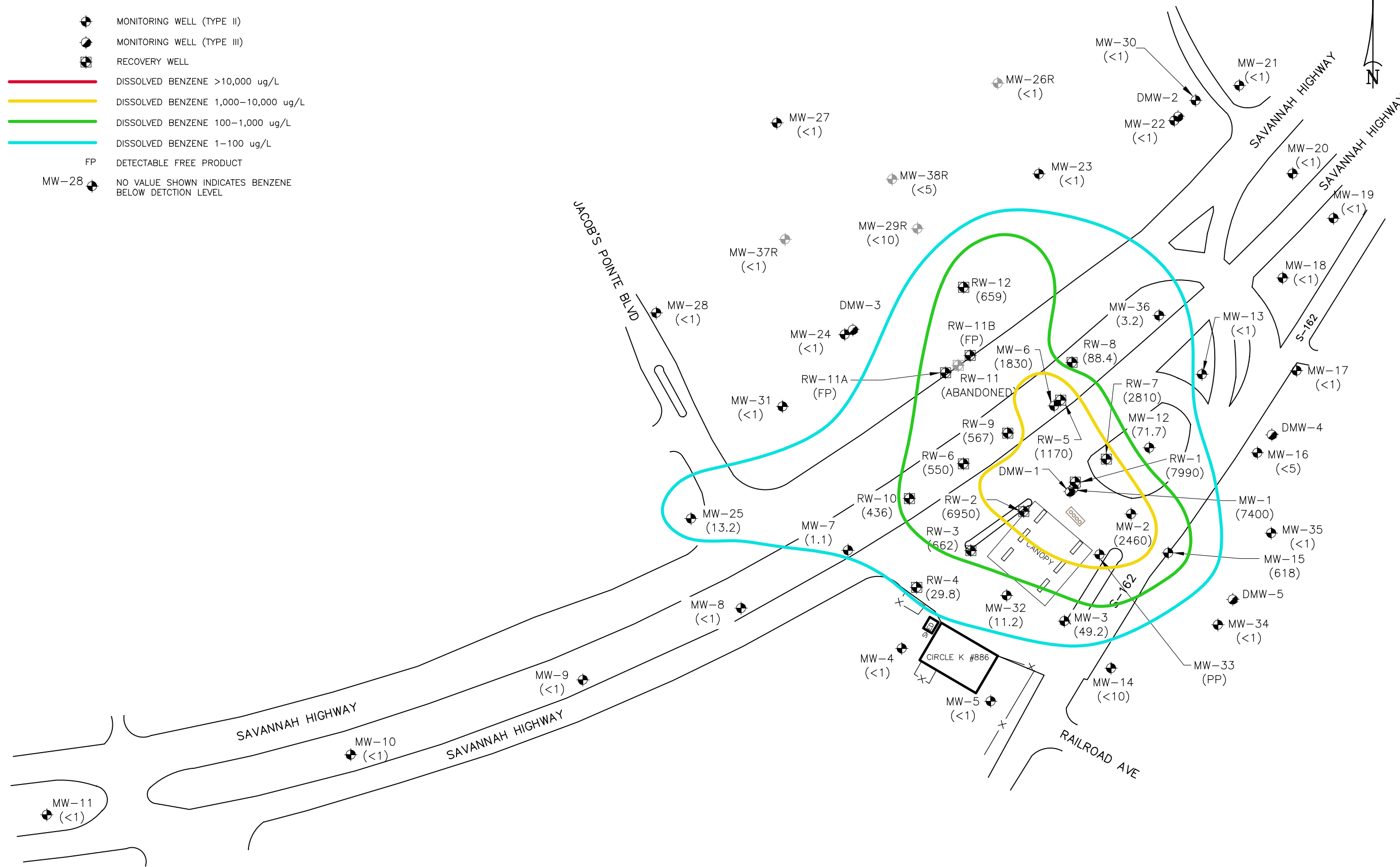







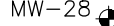


FIGURE 5
 BENEZENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	10/23/2023	PROJECT NO.	257CK88613		

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED TOLUENE >10,000 ug/L
-  DISSOLVED TOLUENE 1,000-10,000 ug/L
-  DISSOLVED TOLUENE 1-1,000 ug/L
-  FP DETECTABLE FREE PRODUCT
-  MW-28 NO VALUE SHOWN INDICATES TOLUENE BELOW DETECTION LEVEL

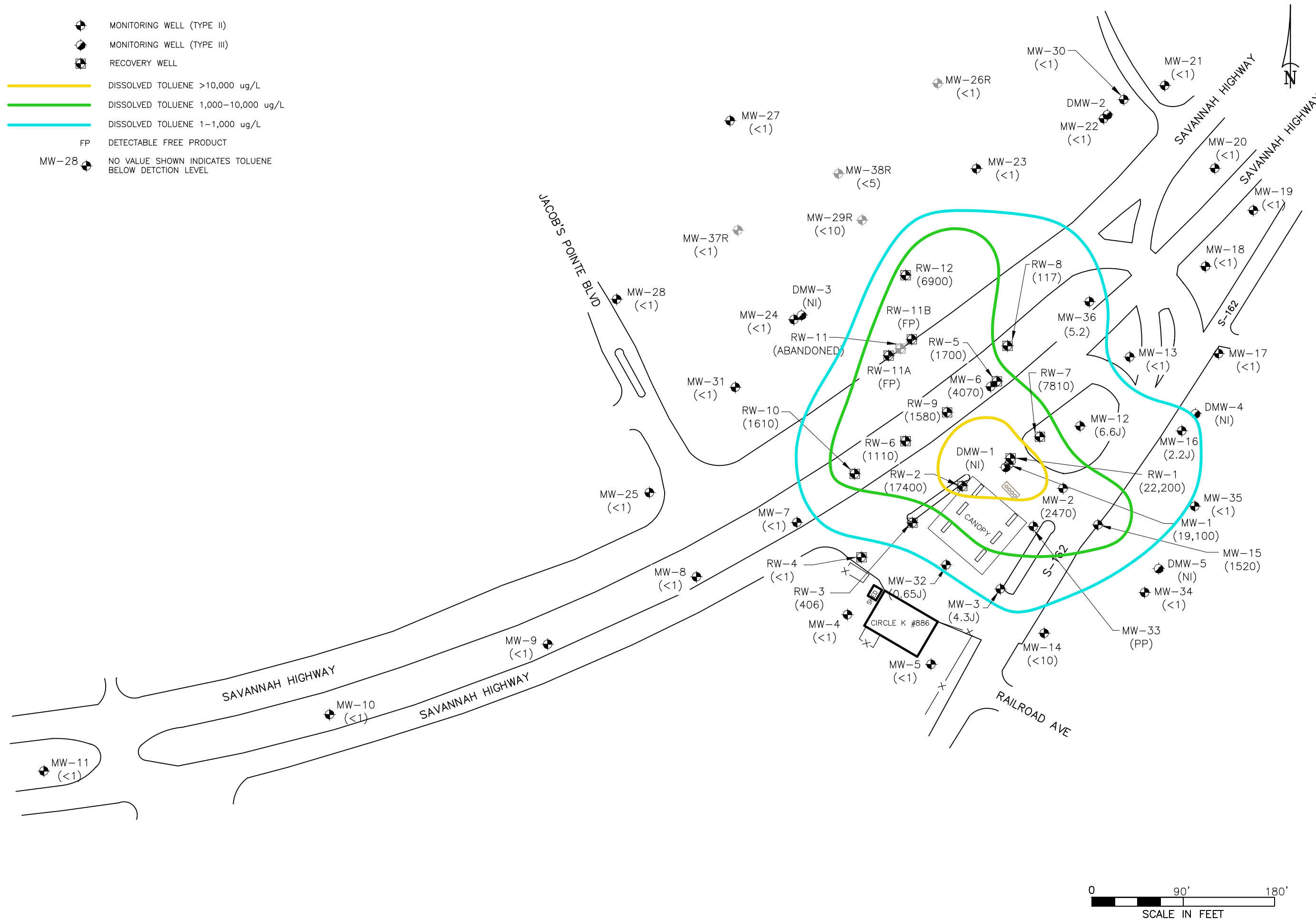


FIGURE 6
 TOLUENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

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UST PERMIT #01589

CAD FILE 1252215.dwg

TYPE CODE

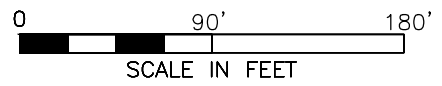
PREP. BY BH

REV. BY

SCALE 1"=90'

DATE 10/23/2023

PROJECT NO. 257CK88613



- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED XYLENES >10,000 ug/L
- DISSOLVED XYLENES 100-10,000 ug/L
- DISSOLVED XYLENES 1-100 ug/L
- FP DETECTABLE FREE PRODUCT
- MW-28 NO VALUE SHOWN INDICATES XYLENES BELOW DETECTION LEVEL

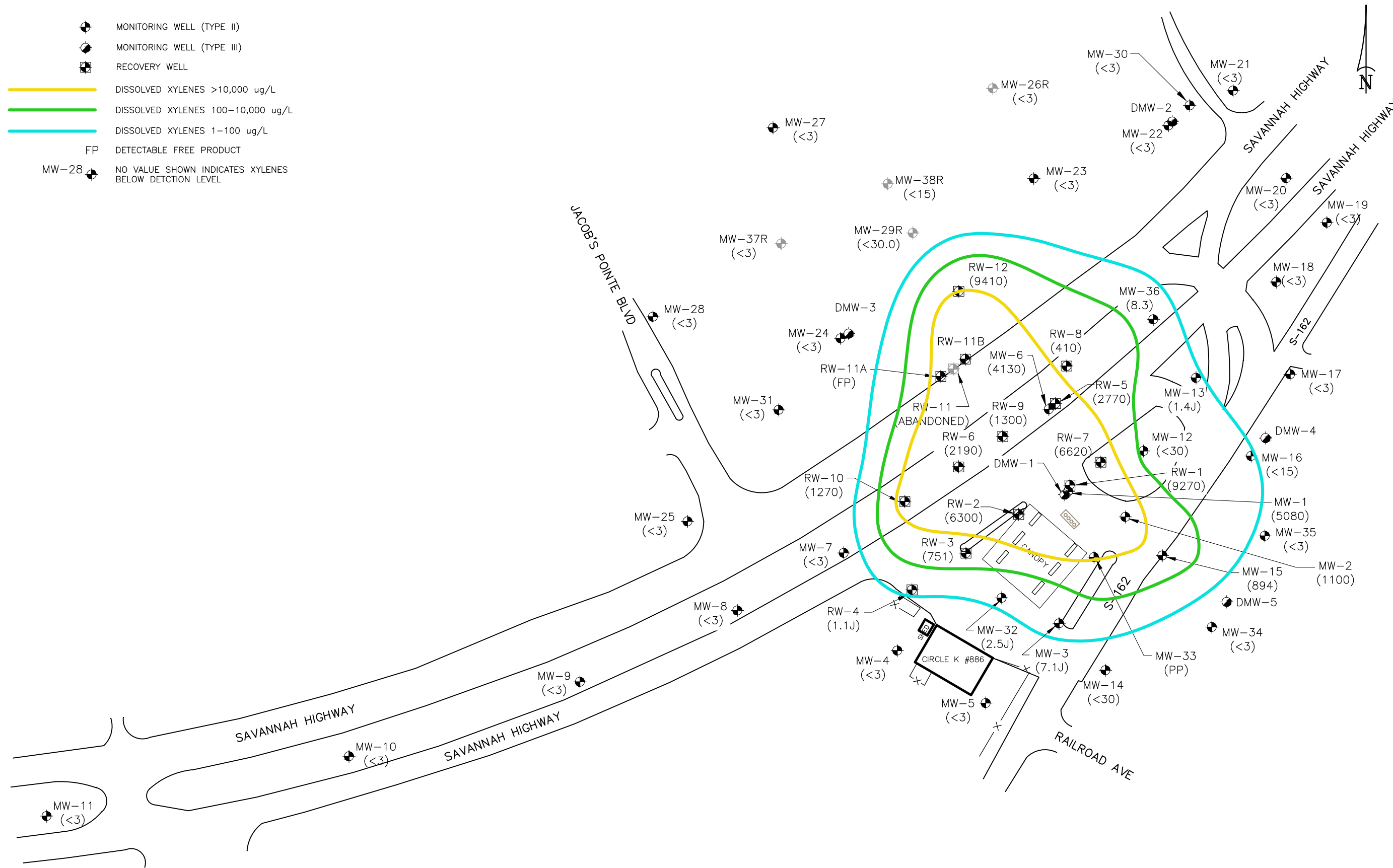







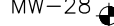


FIGURE 8
 XYLENES ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	10/23/2023	PROJECT NO.	257CK88613
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-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED MTBE >1,000 ug/L
-  DISSOLVED MTBE 100-1,000 ug/L
-  DISSOLVED MTBE 1-100 ug/L
-  FP DETECTABLE FREE PRODUCT
-  MW-28 NO VALUE SHOWN INDICATES MTBE BELOW DETECTION LEVEL

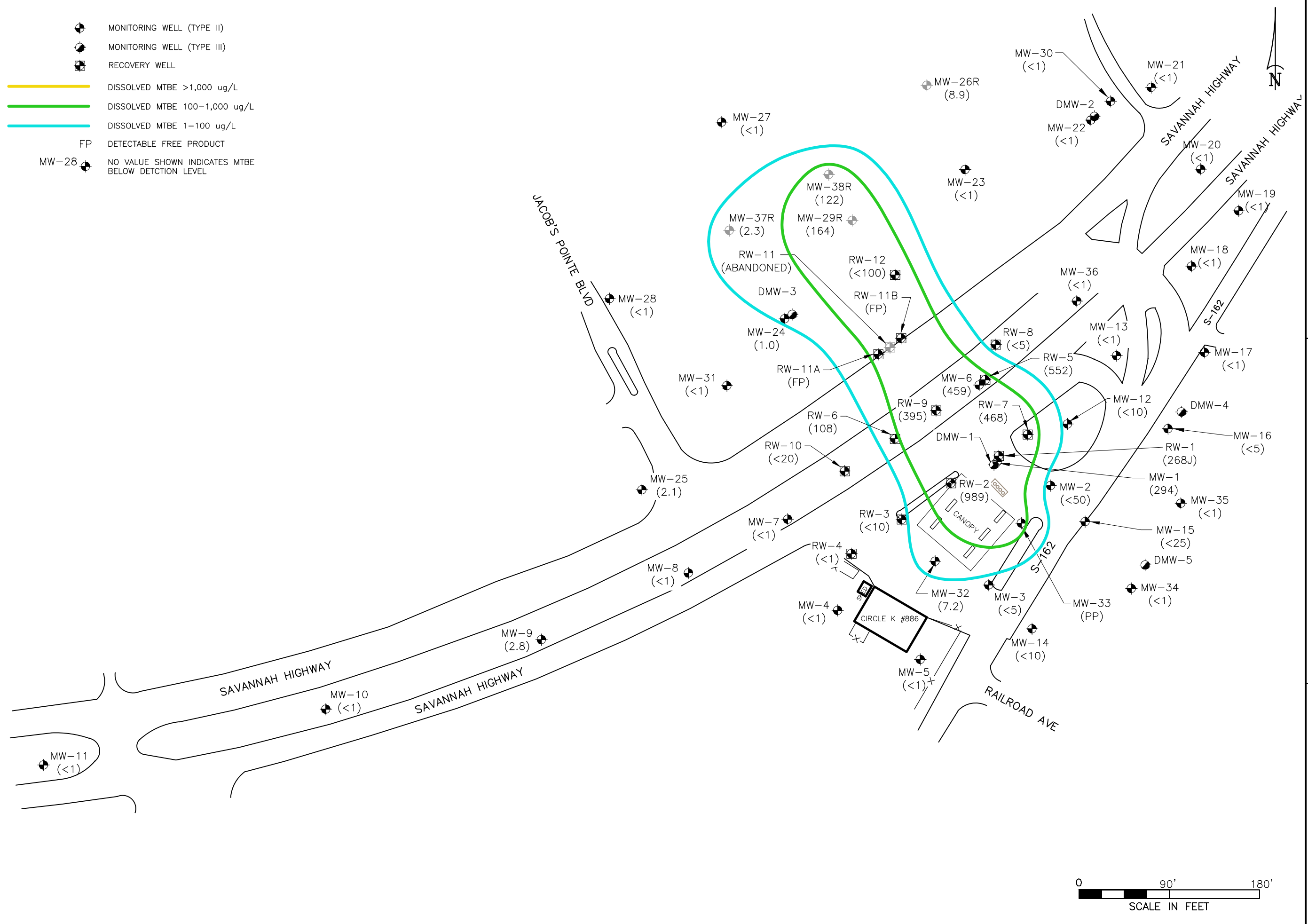
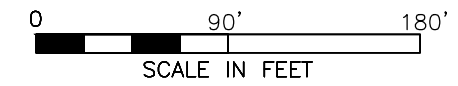








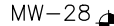
FIGURE 9
 MTBE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	10/23/2023	PROJECT NO.	257CK88613
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-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED NAPHTHALENE 100-1000 ug/L
-  DISSOLVED NAPHTHALENE 1-100 ug/L
-  DETECTABLE FREE PRODUCT
-  NO VALUE SHOWN INDICATES NAPHTHALENE BELOW DETECTION LEVEL

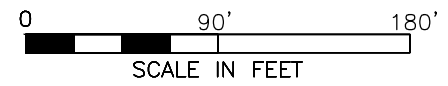
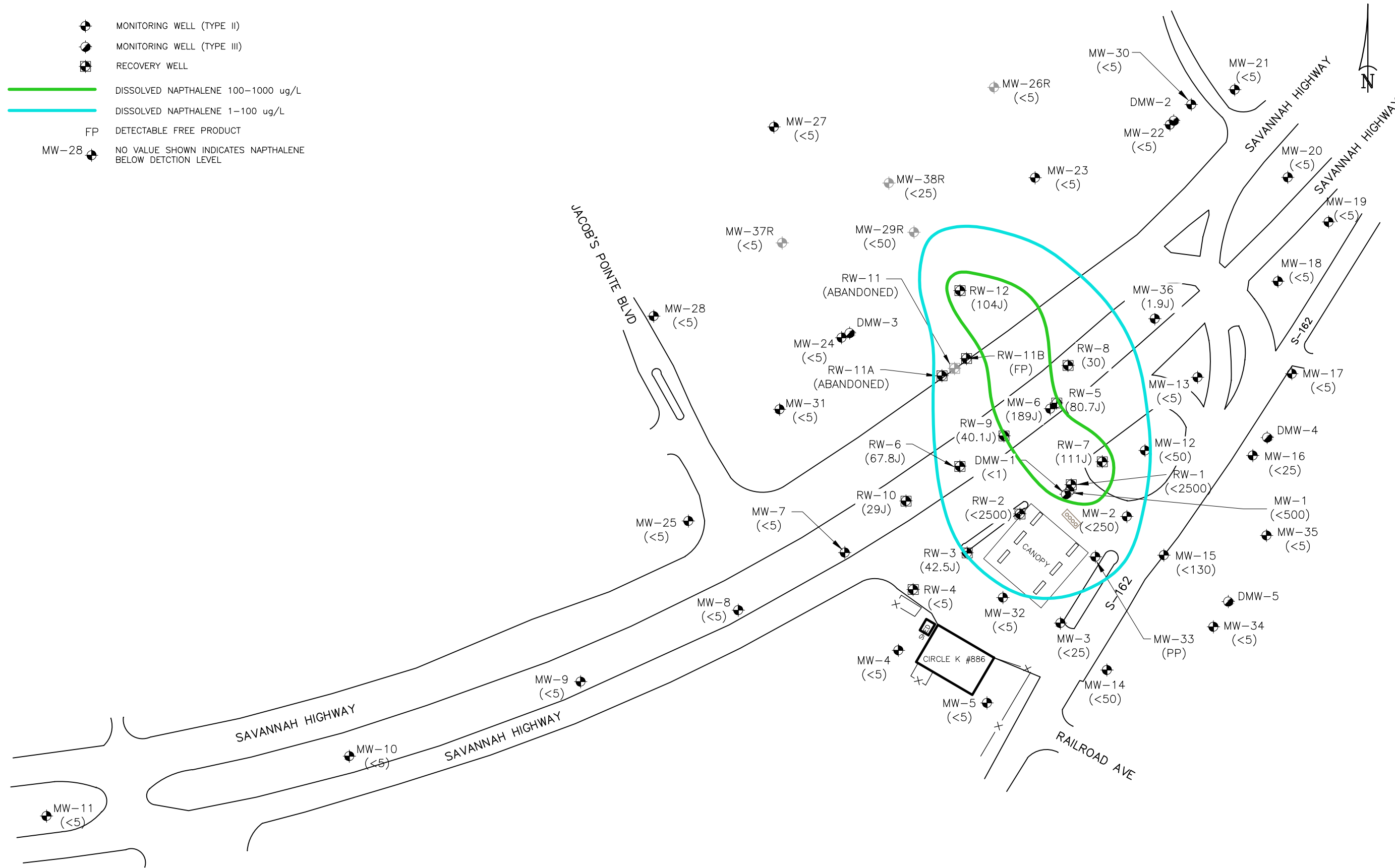


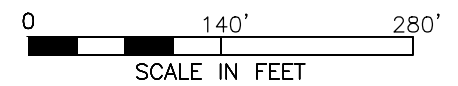
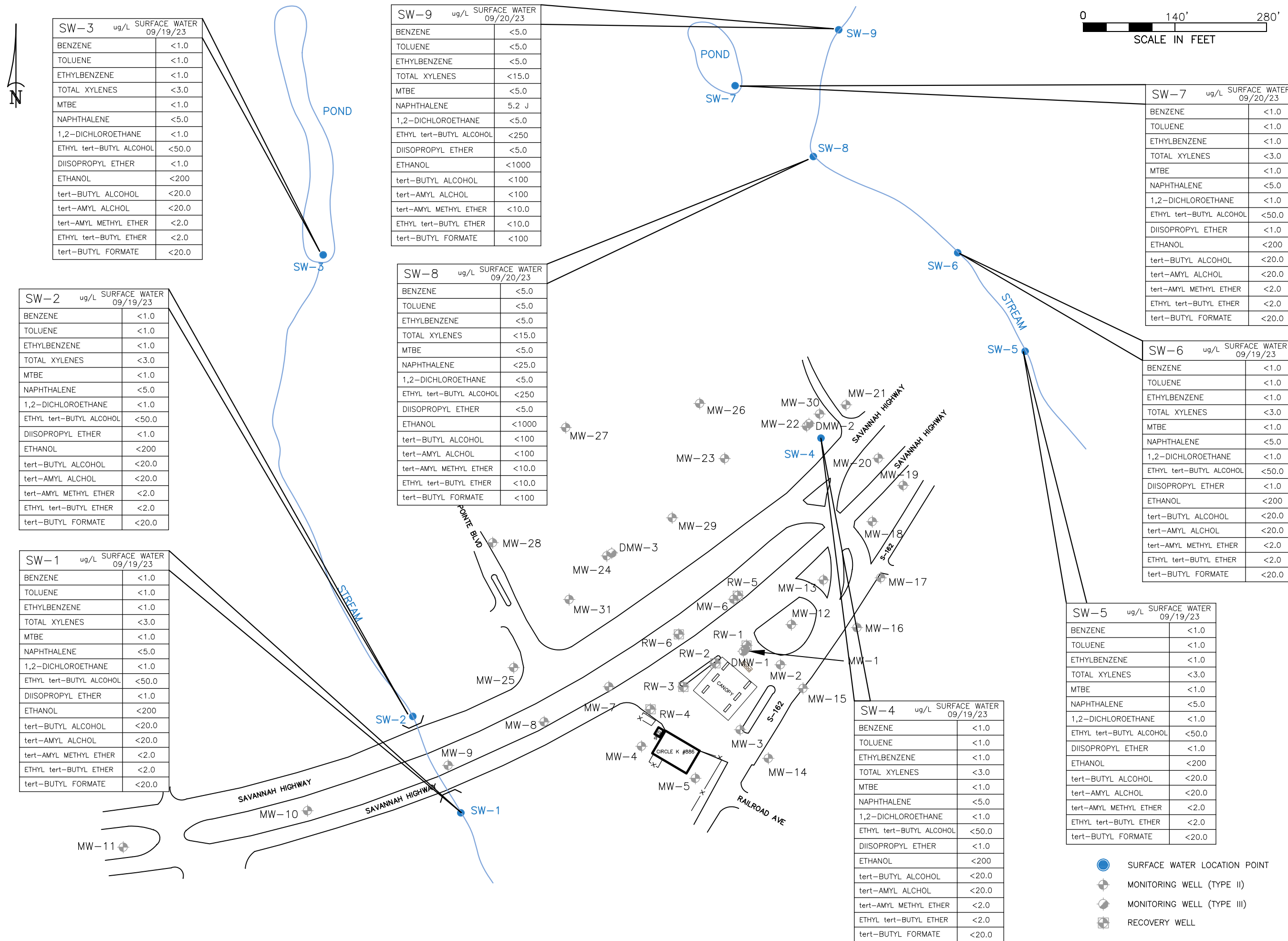
FIGURE 10
 NAPHTHALENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 09/19-20/2023.

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UST PERMIT #01589

CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	10/23/2023	PROJECT NO.	257CK88613		



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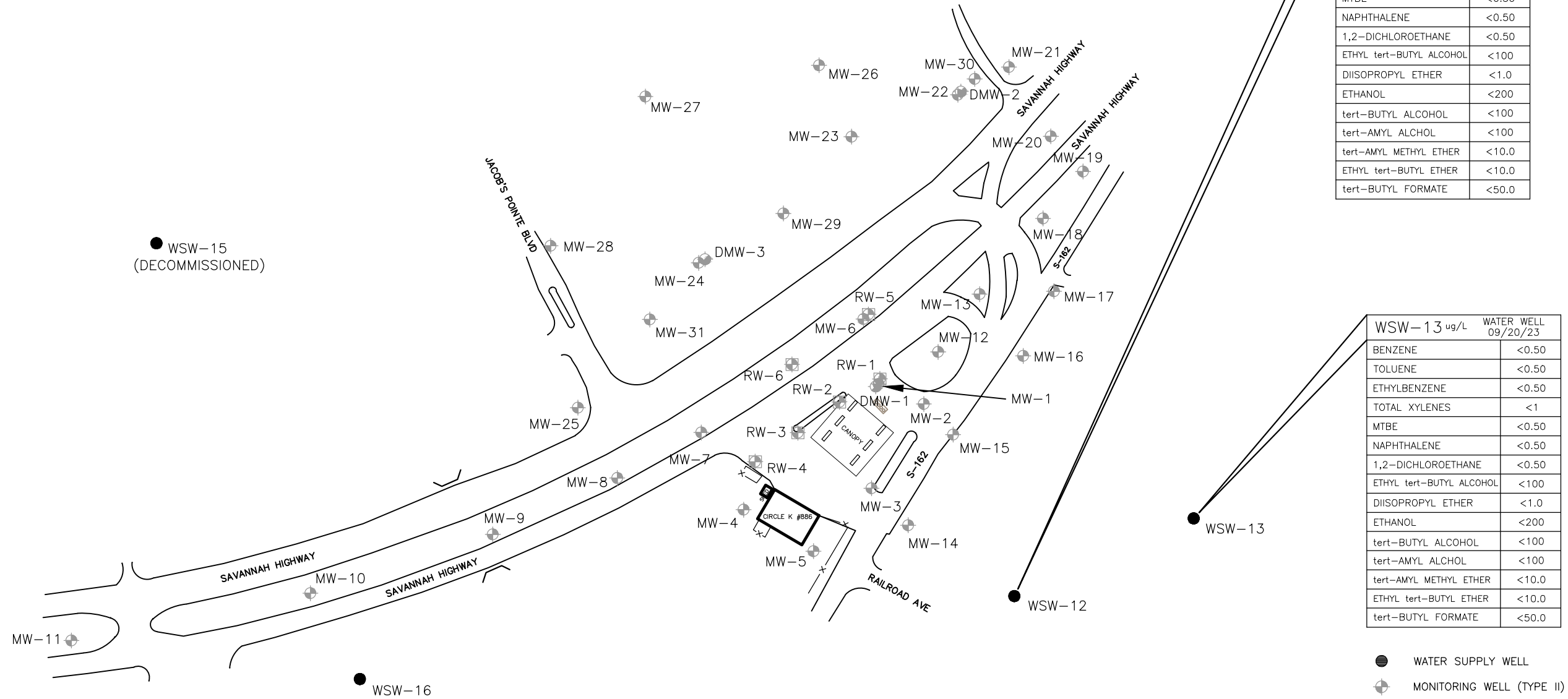
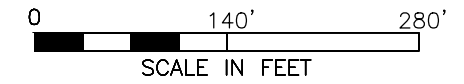
6904 North Main Street, Suite 107
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PROJECT NO. 257CK88613
DATE 10/23/2023
SCALE 1"=140'

FIGURE 11
SURFICIAL WATER SAMPLE RESULTS
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

CAD FILE 1252215.dwg
TYPE CODE BH
PREP. BY BH
REV. BY

NOTES:



WSW-12 ug/L WATER WELL 09/20/23

BENZENE	<0.50
TOLUENE	<0.50
ETHYLBENZENE	<0.50
TOTAL XYLENES	<1
MTBE	<0.50
NAPHTHALENE	<0.50
1,2-DICHLOROETHANE	<0.50
ETHYL tert-BUTYL ALCOHOL	<100
DIISOPROPYL ETHER	<1.0
ETHANOL	<200
tert-BUTYL ALCOHOL	<100
tert-AMYL ALCHOL	<100
tert-AMYL METHYL ETHER	<10.0
ETHYL tert-BUTYL ETHER	<10.0
tert-BUTYL FORMATE	<50.0

WSW-13 ug/L WATER WELL 09/20/23

BENZENE	<0.50
TOLUENE	<0.50
ETHYLBENZENE	<0.50
TOTAL XYLENES	<1
MTBE	<0.50
NAPHTHALENE	<0.50
1,2-DICHLOROETHANE	<0.50
ETHYL tert-BUTYL ALCOHOL	<100
DIISOPROPYL ETHER	<1.0
ETHANOL	<200
tert-BUTYL ALCOHOL	<100
tert-AMYL ALCHOL	<100
tert-AMYL METHYL ETHER	<10.0
ETHYL tert-BUTYL ETHER	<10.0
tert-BUTYL FORMATE	<50.0

FIGURE 12

WATER WELL SAMPLE RESULTS
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

NOTES:



CAD FILE 1252215.dwg

TYPE CODE

PREP. BY BH

REV. BY

SCALE 1"=140'

DATE 10/23/2023

PROJECT NO. 257CK88613

APPENDIX A
FIELD DATA INFORMATION SHEETS



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13

Date: 09/20/2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: *no clear* Ambient Air Temp (°F): *80.5*

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-1** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~HW~~ ~~Private-WSW~~ ~~Public-WSW~~ ~~Other~~ Screened Interval (ft.):
 Depth to Free Product (DFP) (ft.): *2 to 12* Total Well Depth (TWD) (ft.): *12*
 Length of water column (LWC = TWD - DGW) (ft.): *5.75* Free Product Thickness (ft.):
 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	<i>1230</i>							<i>1230</i>
PH (s.u.)	<i>6.15</i>							<i>6.15</i>
Specific Conductivity (µS/cm)	<i>318</i>							<i>318</i>
Water Temperature (°C)	<i>32.42</i>							<i>32.42</i>
Turbidity (NTU)	<i>54.1</i>							<i>54.1</i>
Dissolved Oxygen (mg/L)	<i>0.79</i>							<i>0.79</i>

Sampling Data

Sampled By: Joe Gray Sampling Time: *1230* Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: Total Gallons:



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site ID # 01589 Site Name: Circle K 2720886 257CK886.13 Field Personnel: J. Gray, M. Morris, Y. Misuraca

Date: 09 / 20 / 2023 Project Manager: Brad Hubbard General Weather Conditions: Clear / Sunny Ambient Air Temp (°F): 80's

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration: S.C.: (Y) or N

ph, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N

Dissolved Oxygen (mg/L) 8.68 DO: Y or N

Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-2 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Private-WSW Public-WSW Depth to Groundwater (DGW) (ft.): 5.06 Free Product Thickness (ft.):

Depth to Free Product (DFP) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		12.29						12.29
PH (s.u.)		5.61						5.61
Specific Conductivity (µS/cm)		387						387
Water Temperature (°C)		31.06						31.06
Turbidity (NTU)		0.75						0.75
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Joe Gray Sampling Time: 1229 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: [Signature] Total Gallons:

Grays

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 09/20/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 90's

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW-3	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
		2 to 12	12
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data						
	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling
Volume Purged (gallons)						
Time (military)	1228					1228
PH (s.u.)	4.25					4.25
Specific Conductivity (µS/cm)	1.88					1.88
Water Temperature (°C)	28.59					28.59
Turbidity (NTU)	38.2					38.2
Dissolved Oxygen (mg/L)	1.72					1.72

Sampling Data	
Sampled By: C. Morris	Sampling Time: 1228
	Duplicate: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N
	If yes, Duplicate Time: NA 1231

Notes: Grab Dup-1
 Signature: Carolyn Morris

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information															
Date: 09/10/23		Site ID #:		Site Name:		Field Personnel: Y. Misuraca									
County:		Project Manager:		General Weather Conditions:		Ambient Air Temp (°F):									
Quality Assurance															
Meter Name		Serial #: VU134N3T		Calibration:											
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N							
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N									
Well Information															
Well ID: MW- M2-4		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump									
MW IW RW Other:		Screened Interval (ft.): 2.0 to 12.0		Total Well Depth (TWD) (ft.): 12.0											
Private WSW Public WSW		Depth to Free Product (DFP) (ft.): 3.54		Free Product Thickness (ft.): NA											
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):									
Purging Data															
Initial		1st Vol.		2nd Vol.		3rd Vol.		4th Vol.		5th Vol.		Post		Sampling	
Volume Purged (gallons)		.25												.25	
Time (military)		11:58												11:58	
PH (s.u.)		6.45												6.45	
Specific Conductivity (µS/cm)		623												623	
Water Temperature (°C)		28.94												28.94	
Turbidity (NTU)		125												125	
Dissolved Oxygen (mg/L)		8.43												8.43	
Sampling Data															
Sampled By:		Sampling Time: 11:58		Duplicate: Y or N		If yes, Duplicate Time:									
Notes:															

Grab

Y. Misuraca

Signature: _____

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/20/23		Site ID #: _____		Site Name: _____		Field Personnel: Y. Misuraca			
County: _____		Project Manager: _____		General Weather Conditions: _____		Ambient Air Temp (°F): _____			
Quality Assurance									
Meter Name		Serial #: VU134N3T		Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
Well Information									
Well ID: MW- MW-5		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump			
- MW IW RW Other		Private WSW Public WSW		Screened Interval (ft.): 20 to 120		Total Well Depth (TWD) (ft.): 120			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 5.19		Free Product Thickness (ft.): NA		total volume bailed (gals.):			
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):					
Purging Data									
Initial		1 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.	
Volume Purged (gallons)		.25							
Time (military)		12:10							
PH (s.u.)		6.00							
Specific Conductivity (µS/cm)		167							
Water Temperature (°C)		27.41							
Turbidity (NTU)		135							
Dissolved Oxygen (mg/L)		9.15							
Sampling Data									
Sampled By: Grab		Sampling Time: 12:10		Duplicate: Y or <input checked="" type="radio"/> N		If yes, Duplicate Time: _____			
Notes: _____		Signature: _____							

Y. Misuraca

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 09/20/23	Site ID #:	Site Name:	Field Personnel: Y. Misuraca
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW- 7	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.): 2.0 to 12.0	Total Well Depth (TWD) (ft.): 12.0
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data						
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post
Volume Purged (gallons)	Initial					
Time (military)	8:57					8:57
PH (s.u.)	6.12					6.12
Specific Conductivity (µS/cm)	498					498
Water Temperature (°C)	26.03					26.03
Turbidity (NTU)	221					221
Dissolved Oxygen (mg/L)	5.52					5.52

Sampling Data	
Sampled By:	Sampling Time: 8:57
Notes:	Duplicate: Y or N <input checked="" type="radio"/> Duplicate Time:

Signature: *Y. Misuraca*

Grab



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13

Date: 09 / 20 / 2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:

ph, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 8.68 DO: Y or N

Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-8 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other
Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 2.13 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	0839						0839
PH (s.u.)	5.55						5.55
Specific Conductivity (µS/cm)	167						167
Water Temperature (°C)	25.50						35.50
Turbidity (NTU)	60.9						60.9
Dissolved Oxygen (mg/L)	3.97						3.97

Sampling Data

Sampled By: Joe Gray Sampling Time: 0839 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons:

Grano



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Site ID # 01589
 Project Manager: Brad Hubbard
 Site Name: Circle K 2720886
 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 Date: 09 / 20 / 2023
 General Weather Conditions: clear
 Ambient Air Temp (°F): 70°

Quality Assurance
 Serial #: YPXN1DXL
 Calibration:
 Probe / HGS# VH0RX7EO
 pH 4.0: (Y) or N
 pH 7.0: Y or N
 pH 10.0: Y or N
 S.C.: (Y) or N

DO: Y or N
 Turb.: 0.0 NTU: (Y) or N
 1.0 NTU: Y or N
 10.0 NTU: Y or N
 Meter Name: Horiba multimeter
 ph, conductivity 3.99, 4.49
 Dissolved Oxygen (mg/L) 8.68
 Turbidity (NTU) 0.0

Well Information
 Well ID: MW-9
 Well Diameter (in): 2
 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652
 Method of Purging/Sample Collection: Bailor Pump
 Total Well Depth (TWD) (ft.): 12

Depth to Free Product (DFP) (ft.):
 1 casing volume (CV = LWC x C) (gals.): 1.73
 5 casing volumes (5 x CV) (gals.):
 Screened Interval (ft.): 2-12
 Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 10.45

Initial	Purging Data					Post	Sampling
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.		
Volume Purged (gallons)	0917	0914	0916	0919	0922		0922
Time (military)	5:31	5:14	5:13	5:08	5:05		5:05
PH (s.u.)	7.08	7.19	7.17	7.15	7.12		7.12
Specific Conductivity (µS/cm)	255.71	255.35	255.37	255.31	255.24		255.24
Water Temperature (°C)	56.9	56.9	56.9	56.9	56.9		56.9
Turbidity (NTU)	1.46	1.35	1.66	1.00	1.12		1.12
Dissolved Oxygen (mg/L)							

Sampled By: Joe Gray
 Sampling Time: 0922
 Duplicate: Y or N
 If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC
 Signature: [Signature]
 Total Gallons: 9.0 gallons
 [Signature]

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 09/20/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 70.5

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N
	S.C.: (Y) or N		

Well Information			
Well ID: MW-10	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	Other:	Screened Interval (ft.): 12 to 12	Total Well Depth (TWD) (ft.): 12
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 1.74	Free Product Thickness (ft.): NA	
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.): 1.70	3 casing volumes (3 x CV) (gals.): 5.11	total volume bailed (gals.): 9.0

	Purging Data					Post Sampling
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	
Volume Purged (gallons)	0.25	1.75	1.75	1.75	1.75	
Time (military)	0815	0818	0822	0827	0830	0837
PH (s.u.)	5.76	5.67	5.69	5.72	5.67	5.75
Specific Conductivity (µS/cm)	107	161	168	170	152	171
Water Temperature (°C)	24.87	24.02	24.55	24.57	24.14	24.28
Turbidity (NTU)	120	350	683	723	730	963
Dissolved Oxygen (mg/L)	3.04	2.16	1.86	1.88	2.76	2.05

Sampling Data	
Sampled By: C. Morris	Duplicate: Y or N
Sampling Time: 0837	If yes, Duplicate Time:

Notes: Well went full 5 vol.
9.0 gallons purged

Signature: Carolyn Motawi

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/23	Site ID #:	Site Name:	Field Personnel: Y. Misuraca						
County:	Project Manager:	General Weather Conditions:		Ambient Air Temp (°F):					
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)			pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N		10.0 NTU: Y or N	
			0.0 NTU: (Y) or N	1.0 NTU: Y or N					
Well Information									
Well ID: MW- 11	Well Diameter (inches): 2		Conversion Factor (X gal/foot) 1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
MW Private WSW	RW Public WSW	Other:		Method of Purging/Sample Collection: (Bailer) Pump					
Depth to Free Product (DFP) (ft.):		Screened Interval (ft.): 2.0 to 12.0		Total Well Depth (TWD) (ft.): 12.0		Free Product Thickness (ft.): NA			
Length of water column (LWC = TWD - DGM) (ft.): 10.19		Depth to Groundwater (DGM) (ft.): 1.69		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):			
Purging Data									
Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post			
Volume Purged (gallons)	1.5	8.20	1.5	1.5	1.5	1-5			
Time (military)	8:16	8:24	8:24	8:26	8:31	8:31			
PH (s.u.)	5.91	5.62	5.93	6.13	5.97	5.97			
Specific Conductivity (µS/cm)	264	296	295	318	320	320			
Water Temperature (°C)	23.0	23.33	23.24	23.31	23.22	23.22			
Turbidity (NTU)	315	1000+	1000+	700+	633	633			
Dissolved Oxygen (mg/L)	8.14	5.53	4.99	4.77	5.78	5.78			
Sampling Data									
Sampled By:	Sampling Time: 8:31		Duplicate: Y or N		If yes, Duplicate Time:				
Notes:	Signature: <i>Y. Misuraca</i>								

@ 7.75 gallons



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Date: **09/19/2023** Site ID #: 01589 Site Name: Circle K 2720886 257CK886.13
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 82
 Field Personnel: J. Gray, M. Morris, Y. Misuraca

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.88 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: MW-12 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW IW RW Other Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Private-WSW Public-WSW Depth to Groundwater (DGW) (ft.): 4.80 Free Product Thickness (ft.):
 Depth to Free Product (DFP) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Initial							
Volume Purged (gallons)							
Time (military)	1229						1229
PH (s.u.)	6.22						6.22
Specific Conductivity (µS/cm)	1080						1080
Water Temperature (°C)	30.04						30.04
Turbidity (NTU)	0.0						0.0
Dissolved Oxygen (mg/L)	0.85						0.85

Sampling Data
 Sampled By: Joe Gray Sampling Time: 1229 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *[Signature]* Total Gallons:

[Handwritten initials]



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13

Date: 09/19/2023 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: *Clear* Ambient Air Temp (°F): 73.0

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:

ph, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 8.68 DO: Y or N

Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-13 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other Private-WSW Public-WSW Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Depth to Free Product (DFP) (ft.): 3.73 Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
.25							
1115							1115
6.69							6.69
267							267
32.84							32.84
0.0							0.0
1.30							1.30

Sampling Data

Sampled By: Joe Gray Sampling Time: 1115 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons:

Garth



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



257CK886.13

Site Information

Date: 09/19/2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 82

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-14 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other
 Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 6.78 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	1249							1249
PH (s.u.)	5.57							5.57
Specific Conductivity (µS/cm)	401							401
Water Temperature (°C)	27.69							27.69
Turbidity (NTU)	0.0							0.0
Dissolved Oxygen (mg/L)	0.90							0.90

Sampling Data

Sampled By: Joe Gray Sampling Time: 1249 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature:

Joe Gray

Total Gallons:

60002



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13

Date: 09/19/2023 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:

ph, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 8.68 DO: Y or N

Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-15 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW IW RW Other Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Private-WSW Public-WSW Depth to Free Product (DFP) (ft.): 5.84 Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1309						1309
PH (s.u.)	4.66						4.66
Specific Conductivity (µS/cm)	122						122
Water Temperature (°C)	28.05						28.05
Turbidity (NTU)	0.0						0.0
Dissolved Oxygen (mg/L)	1.43						1.43

Sampling Data

Sampled By: Joe Gray Sampling Time: 1309 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joseph Gray* Total Gallons:

60226



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 82°

Quality Assurance
 Serial #: YPXN1DXL Calibration: Method of Purging/Sample Collection: Bailor Pump
 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 DO: Y or N Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652
 MW: MW-16 ~~HW~~ ~~Private-WSW~~ ~~Public-WSW~~ Other

Depth to Free Product (DFP) (ft.): Screened Interval (ft.): Total Well Depth (TWD) (ft.): 12
 Length of water column (LWC = TWD - DGW) (ft.): Depth to Groundwater (DGW) (ft.): Free Product Thickness (ft.):
 1 casing volume (CV = LWC x C) (gals.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data
 1st Vol. 2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sampling

Volume Purged (gallons) Initial 0.25 1349 3.81 324 26.61 0.6 0.77

Time (military) 1349 3.81 324 26.61 0.6 0.77

PH (s.u.) 3.81 324 26.61 0.6 0.77

Specific Conductivity (µS/cm) 324 26.61 0.6 0.77

Water Temperature (°C) 26.61 0.6 0.77

Turbidity (NTU) 0.6 0.77

Dissolved Oxygen (mg/L) 0.77

Sampled By: Joe Gray Sampling Time: 1349 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons:

GA2024



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Date: 09 / 19 / 2023 Site ID # 01589 Site Name: Circle K 2720886 257CK886.13
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Sunny Ambient Air Temp (°F): 73°
 Field Personnel: J. Gray, M. Morris, Y. Misuraca

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: MW-17 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW RW Other
 Private-WSW Public-WSW
 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Depth to Free Product (DFP) (ft.): 1.62 Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	1.75						
Volume Purged (gallons)	1029						1029
Time (military)	6:28						6:27
PH (s.u.)	362						365
Specific Conductivity (µS/cm)	28.36						30.33
Water Temperature (°C)	20.88						20.0
Turbidity (NTU)	2.76						1.46
Dissolved Oxygen (mg/L)							

Sampled By: Joe Gray
 Sampling Time: 1029 Duplicate: Y or N If yes, Duplicate Time:
 Signature: [Signature] Total Gallons: 2.0 gallons

Notes: 4315 Savannah Highway, Ravenel, SC
 Purged p 1st Vol



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



<p>Site Information</p> <p>Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca</p> <p>County: Charleston Project Manager: Brad Hubbard General Weather Conditions: <i>Clear</i> Ambient Air Temp (°F): <i>47.6 60's</i></p> <p>257CK886.13</p>																																																																									
<p>Quality Assurance</p> <p>Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:</p> <p>ph, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N</p> <p>Dissolved Oxygen (mg/L) 8.68 DO: Y or N</p> <p>Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N</p>																																																																									
<p>Well Information</p> <p>Well ID: <i>MW-18</i> Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump</p> <p><i>RW</i> <i>Other</i></p> <p><i>Private-WSW</i> <i>Public-WSW</i></p> <p>Screened Interval (ft.): <i>2-12</i> Total Well Depth (TWD) (ft.): <i>12</i></p> <p>Depth to Free Product (DFP) (ft.): <i>3.34</i> Free Product Thickness (ft.):</p> <p>Length of water column (LWC = TWD - DGW) (ft.): <i>1</i> casing volume (CV = LWC x C) (gals.):</p> <p><i>5</i> casing volumes (5 x CV) (gals.):</p>																																																																									
<p>Purging Data</p> <table border="1"> <thead> <tr> <th>Initial</th> <th>1st Vol.</th> <th>2nd Vol.</th> <th>3rd Vol.</th> <th>4th Vol.</th> <th>5th Vol.</th> <th>Post</th> <th>Sampling</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Volume Purged (gallons)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Time (military)</td> <td><i>1009</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>1009</i></td> </tr> <tr> <td>PH (s.u.)</td> <td><i>6.17</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>6.17</i></td> </tr> <tr> <td>Specific Conductivity (µS/cm)</td> <td><i>345</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>345</i></td> </tr> <tr> <td>Water Temperature (°C)</td> <td><i>30.18</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>30.18</i></td> </tr> <tr> <td>Turbidity (NTU)</td> <td><i>11.5</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>11.5</i></td> </tr> <tr> <td>Dissolved Oxygen (mg/L)</td> <td><i>3.99</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>3.99</i></td> </tr> </tbody> </table>		Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling									Volume Purged (gallons)								Time (military)	<i>1009</i>						<i>1009</i>	PH (s.u.)	<i>6.17</i>						<i>6.17</i>	Specific Conductivity (µS/cm)	<i>345</i>						<i>345</i>	Water Temperature (°C)	<i>30.18</i>						<i>30.18</i>	Turbidity (NTU)	<i>11.5</i>						<i>11.5</i>	Dissolved Oxygen (mg/L)	<i>3.99</i>						<i>3.99</i>
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling																																																																		
Volume Purged (gallons)																																																																									
Time (military)	<i>1009</i>						<i>1009</i>																																																																		
PH (s.u.)	<i>6.17</i>						<i>6.17</i>																																																																		
Specific Conductivity (µS/cm)	<i>345</i>						<i>345</i>																																																																		
Water Temperature (°C)	<i>30.18</i>						<i>30.18</i>																																																																		
Turbidity (NTU)	<i>11.5</i>						<i>11.5</i>																																																																		
Dissolved Oxygen (mg/L)	<i>3.99</i>						<i>3.99</i>																																																																		
<p>Sampling Data</p> <p>Sampled By: Joe Gray Sampling Time: <i>1009</i> Duplicate: Y or N <i>(N)</i> If yes, Duplicate Time:</p> <p>Notes: 4315 Savannah Highway, Ravenel, SC Signature: <i>Joseph Gray</i> Total Gallons:</p> <p style="text-align: right;"><i>GMG</i></p>																																																																									



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Site ID # 01589
 Site Name: Circle K 2720886
 Project Manager: Brad Hubbard
 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston
 General Weather Conditions: *Clear*
 Ambient Air Temp (°F): *67*
 257CK886.13

Quality Assurance
 Meter Name: Horiba multimeter
 Serial #: YPXN1DXL
 Calibration:
 pH 4.0: (Y) or N
 pH 7.0: Y or N
 pH 10.0: Y or N
 S.C.: (Y) or N
 DO: Y or N
 Turb.: 0.0 NTU: (Y) or N
 1.0 NTU: Y or N
 10.0 NTU: Y or N

Well Information
 Well ID: MW-19
 Well Diameter (in): 2
 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652
 Method of Purging/Sample Collection: Bailor Pump
 MW: ~~IW~~ ~~RW~~ ~~Other~~
 Private-WSW: ~~Public-WSW~~
 Screened Interval (ft.): *2-12*
 Total Well Depth (TWD) (ft.): *12*

Depth to Free Product (DFP) (ft.):
 Depth to Groundwater (DGW) (ft.): *3.10*
 Free Product Thickness (ft.):
 Length of water column
 (LWC = TWD - DGW) (ft.):
 1 casing volume (CV = LWC x C) (gals.):
 5 casing volumes (5 x CV) (gals.):

Purging Data							
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	<i>0949</i>						<i>0949</i>
PH (s.u.)	<i>5.85</i>						<i>5.85</i>
Specific Conductivity (µS/cm)	<i>109</i>						<i>109</i>
Water Temperature (°C)	<i>31.58</i>						<i>31.58</i>
Turbidity (NTU)	<i>53.0</i>						<i>53.0</i>
Dissolved Oxygen (mg/L)	<i>2.21</i>						<i>2.21</i>

Sampled By: Joe Gray
 Sampling Time: *0949*
 Duplicate: Y or N
 If yes, Duplicate Time:

Signature: *Joseph Gray*
 Notes: 4315 Savannah Highway, Ravenel, SC
 Total Gallons:
GRAS



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13
 Date: 09/19/2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 67°

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: MW-20 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW RW Other
 Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 2-12 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Length of water column Free Product Thickness (ft.): 2, 13
 (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	0929							0929
PH (s.u.)	5.03							5.03
Specific Conductivity (µS/cm)	305							305
Water Temperature (°C)	26.41							26.41
Turbidity (NTU)	40.5							40.5
Dissolved Oxygen (mg/L)	1.88							1.88

Sampling Data
 Sampled By: Joe Gray Sampling Time: 0929 Duplicate: Y or N If yes, Duplicate Time:
 Signature: *Joe Gray*

Notes: 4315 Savannah Highway, Ravenel, SC Total Gallons: *GRAB*

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/14/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenna	Project Manager: Brad Hubbard	General Weather Conditions: Ambient Air Temp (°F):							
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N	S.C.: (Y) or N							
Well Information									
Well ID: MW- 21	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1*	Well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump					
MW Private WSW	RW Public WSW	Other:							
Depth to Free Product (DFP) (ft.): 11.74	Depth to Groundwater (DGW) (ft.): 0.26	Screened Interval (ft.): 2 to 12		Total Well Depth (TWD) (ft.): 12			Free Product Thickness (ft.): NA		
Length of water column (LWC = TWD - DGW) (ft.): 11.74	1 casing volume (CV = LWC x X) (gals.): 1.94	3 casing volumes (3 x CV) (gals.): 5.84		total volume bailed (gals.):					
Purging Data									
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	212.25	2.0	1.95	1.95				1.75	
Time (military)	9:30	9:38	9:43	9:43				9:43	
PH (s.u.)	5.84	6.02	6.53	6.53				6.55	
Specific Conductivity (µS/cm)	273	358	336	336				336	
Water Temperature (°C)	28.00	27.10	27.74	27.74				27.76	
Turbidity (NTU)	30.56	1000	725	725				725	
Dissolved Oxygen (mg/L)	4.96	5.48	5.48	5.48				2236	
Sampling Data									
Sampled By: C. Morris	Sampling Time: 9:43	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:	Signature: <i>Y. Misuraca</i>								

purge @ 3.5 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date:	09/19/23	Site ID #:	01589	Site Name:	Circle K # 2720886	Field Personnel:	C. Morris, J. Gray, Y. Misuraca		
County:	Ravenel	Project Manager:	Brad Hubbard			General Weather Conditions:	Ambient Air Temp (°F):		
Quality Assurance									
Meter Name	Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)			Serial #:	VU134N3T				
Calibration:				pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N		
				0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N			
Well Information									
Well ID:	MW-22	Well Diameter (inches):	2	Conversion Factor (X gal/foot)	1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump			
MW	IW	RW	Other:	Screened Interval (ft.):		Total Well Depth (TWD) (ft.):			
-	Private WSW	Public WSW		2 to 12		12			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGM) (ft.):		3.07		Free Product Thickness (ft.): NA			
Length of water column (LWC = TWD - DGM) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.): 25			
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Time (military)	25								25
PH (s.u.)	8:20								8:20
Specific Conductivity (µS/cm)	248.47								4.77
Water Temperature (°C)	13.1								13.1
Turbidity (NTU)	24.81								24.81
Dissolved Oxygen (mg/L)	22.7								22.7
	25.34								25.34
Sampling Data									
Sampled By:	C. Morris			Sampling Time:			Duplicate:	Y or N	
Notes:	<div style="display: flex; justify-content: space-between;"> Gray Misuraca </div>								

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: _____ Ambient Air Temp (°F): _____	

Quality Assurance

Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N
		0.0 NTU: (Y) or N	1.0 NTU: Y or N
			10.0 NTU: Y or N

Well Information

Well ID: MW- 23	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: _____
MW Private WSW	RW Public WSW	Other: _____	Screened Interval (ft.): 5 to 15
Depth to Free Product (DFF) (ft.):	Depth to Groundwater (DGW) (ft.): 6.87	Free Product Thickness (ft.): NA	Total Well Depth (TWD) (ft.): 15
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.): 0.25

Purging Data

	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Initial							
Volume Purged (gallons)	0.25						0.25
Time (military)	0805						0805
PH (s.u.)	5.92						5.92
Specific Conductivity (µS/cm)	0.145						0.145
Water Temperature (°C)	24.78						24.78
Turbidity (NTU)	30.8						30.8
Dissolved Oxygen (mg/L)	2.85						2.85

Sampling Data

Sampled By: C. Morris	Sampling Time: 0805	Duplicate: Y or N <input checked="" type="radio"/>	If yes, Duplicate Time: _____
-----------------------	---------------------	--	-------------------------------

Notes: _____

Signature: Carolyn Morrow

Grab

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date:	09/14/23	Site ID #:	61587	Site Name:	Gruck 270886	Field Personnel:	Y. Misuraca		
County:	Ramsey	Project Manager:	Boyd Hubbard	General Weather Conditions:	Clear	Ambient Air Temp (°F):	62°		
Quality Assurance									
Meter Name	Serial #: VU134N3T								
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	Calibration:		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N
			0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N		
Well Information									
Well ID: MWL-24	Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump				
MW Private WSW	Other:		Screened Interval (ft.): 5.0 to 6.7		Total Well Depth (TWD) (ft.): 15.0				
Depth to Free Product (DFF) (ft.):	Depth to Groundwater (DGM) (ft.):		3 casing volumes (3 x CV) (gals.):		Free Product Thickness (ft.): NA				
Length of water column (LWC = TWD - DGM) (ft.): 12.03	8.55		1 casing volume (CV = LWC x X) (gals.):		total volume bailed (gals.):				
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Time (military)	12:15							12:15	
PH (s.u.)	4.83							4.83	
Specific Conductivity (µS/cm)	136							136	
Water Temperature (°C)	76.72							76.72	
Turbidity (NTU)	402							402	
Dissolved Oxygen (mg/L)	1.24-72							1.24-72	
Sampling Data									
Sampled By:	Grab		Sampling Time:	12:15	Duplicate: Y or N	If yes, Duplicate Time:			
Notes:	Signature: Y. Misuraca								

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenel	Project Manager: Brad Hubbard		General Weather Conditions: Ambient Air Temp (°F):						
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N								
Well Information									
Well ID: MW-25	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 0.652	1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
MW Private WSW	IW Public WSW	Other:	Method of Purging/Sample Collection: (Bailer) Pump						
Depth to Free Product (DFP) (ft.): 11.79	Depth to Groundwater (DGW) (ft.): 0.21	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12						
Length of water column (LWC = TWD - DGW) (ft.): 11.79	1 casing volume (CV = LWC x X) (gals.): 1.95	3 casing volumes (3 x CV) (gals.): 5.87	Free Product Thickness (ft.): NA						
Purging Data									
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling		
Volume Purged (gallons)	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Time (military)	13:40	13:47	13:52	13:55	13:59	14:03	14:03		
pH (s.u.)	5.32	5.30	6.39	5.25	5.07	4.99	4.99		
Specific Conductivity (µS/cm)	213	219	194	216	213	214	214		
Water Temperature (°C)	33.17	29.13	31.03	29.21	23.54	23.86	23.86		
Turbidity (NTU)	193	581	720	692	309	362	362		
Dissolved Oxygen (mg/L)	7.58	4.15	5.64	5.53	3.82	3.76	3.76		
Sampling Data									
Sampled By: C. Morris	Sampling Time: 14:03	Duplicate: Y or N	If yes, Duplicate Time:						
Notes: Signature: <i>[Signature]</i>									

Purged @ 10.25 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenel	Project Manager: Brad Hubbard		General Weather Conditions: Ambient Air Temp (°F):						
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N								
Well Information									
Well ID: MW-26B	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW - Private WSW Depth to Free Product (DFP) (ft.): 11.65	RW Public WSW	Other:	Screened Interval (ft.): 5 to 15		Total Well Depth (TWD) (ft.): 15		Free Product Thickness (ft.): NA		
Length of water column (LWC = TWD - DGM) (ft.): 11.65	Depth to Groundwater (DGM) (ft.): 3.35		1 casing volume (CV = LWC x X) (gals.): 1.93		3 casing volumes (3 x CV) (gals.): 5.80		total volume bailed (gals.):		
Purging Data									
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time (military)	11:16	11:20	11:28	11:34	11:40	11:50		11:50	
PH (s.u.)	4.31	4.32	4.31	4.33	4.38			4.51	
Specific Conductivity (µS/cm)	224	270	238	252	252			252	
Water Temperature (°C)	25.2	24.83	24.12	23.77	23.75			24.19	
Turbidity (NTU)	210	100+	100+	100+	100+			100+	
Dissolved Oxygen (mg/L)	4.44	3.97	3.39	4.12				13.15	
Sampling Data									
Sampled By: C. Morris	Sampling Time: 11:50	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:									

purged @ 10.25 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/14/23	Site ID #: 01589	Site Name: Circle K 2700880	Field Personnel: Y. Misuraca						
County:	Project Manager: Brad Hubbard	General Weather Conditions: clear, cloudy	Ambient Air Temp (°F): 82		FL 83				
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N		10.0 NTU: Y or N		
		0.0 NTU: (Y) or N		1.0 NTU: Y or N					
Well Information									
Well ID: MW- 127 12:03	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
- MW - Private WSW - Public WSW - Other:	Screened Interval (ft.): 5.0 to 15.0	Total Well Depth (TWD) (ft.): 15.0							
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.): NA		total volume bailed (gals.):					
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):							
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
	25								
Time (military)	12:37								12:37
PH (s.u.)									5.71
Specific Conductivity (µS/cm)									139
Water Temperature (°C)									26.57
Turbidity (NTU)									720
Dissolved Oxygen (mg/L)									6.90
Sampling Data									
Sampled By:	Sampling Time: 12:57	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:	Signature: <i>[Handwritten Signature]</i>								

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravennel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 80.5						
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	10.0 NTU: Y or N			S.C.: (Y) or N		
	0.0 NTU: (Y) or N	1.0 NTU: Y or N		10.0 NTU: Y or N					
Well Information									
Well ID: MW-28	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW - Private WSW	RW - Public WSW	Other:	Screened Interval (ft.): 2 to 12						
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.04		Free Product Thickness (ft.): NA						
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):						
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Time (military)	0.25								1355
PH (s.u.)	5.10								5.10
Specific Conductivity (µS/cm)	144								144
Water Temperature (°C)	28.18								28.18
Turbidity (NTU)	0.0								0.0
Dissolved Oxygen (mg/L)	1.46								1.46
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1355	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:	Grab								
	Signature: Carolyn Merzlin								

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: **09/19/23** Site ID #: **01589** Site Name: **Circle K # 2720886** Field Personnel: **C. Morris, J. Gray, Y. Misuraca**
 County: **Ravenel** Project Manager: **Brad Hubbard** General Weather Conditions: _____ Ambient Air Temp (°F): _____

Quality Assurance

Meter Name: _____ Serial #: **VU134N3T** Calibration: _____
 Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity) pH 4.0: (Y) or N _____ pH 7.0: Y or N _____ pH 10.0: Y or N _____ S.C.: (Y) or N _____
 0.0 NTU: (Y) or N _____ 1.0 NTU: Y or N _____ 10.0 NTU: Y or N _____

Well Information

Well ID: **MW-29R** Well Diameter (inches): **2** Conversion Factor (X gal/foot) **1"** well = 0.041, **2"** well = 0.166, **4"** well = 0.652 Method of Purging/Sample Collection: _____
 - MW IW RW Other: _____ Screened Interval (ft.): _____ Total Well Depth (TWD) (ft.): **15**
 - Private WSW Public WSW Depth to Groundwater (DGW) (ft.): **4.25** Free Product Thickness (ft.): **NA**

Length of water column (LWC = TWD - DGW) (ft.): **10.75** 1 casing volume (CV = LWC x X) (gals.): **1.78** 3 casing volumes (3 x CV) (gals.): **5.35** total volume bailed (gals.): _____

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	1.25	1.75 1.75	1.75	1.75	1.75	1.75		
Time (military)	10:16	10:23	10:38	10:38	10:53	10:53		10:53
PH (s.u.)	4.76	5.01	4.97	4.97	4.40	4.40		4.40
Specific Conductivity (µS/cm)	291	273	273	278	283	283		283
Water Temperature (°C)	26.43	26.03	25.68	25.74	25.16	25.16		25.16
Turbidity (NTU)	218	1000+	1000+	918	1000+	1000+		1000+
Dissolved Oxygen (mg/L)	4.48	3.25	5.91	4.64	9.76	8.89		8.89

Sampling Data

Sampled By: **C. Morris** Sampling Time: **10:53** Duplicate: **Y or N** If yes, Duplicate Time: _____

Notes: _____

Signature: **Y. Misuraca**

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information											
Date:	09/19/23	Site ID #:	01589	Site Name:	Circle K # 2720886	Field Personnel:	C. Morris, J. Gray, Y. Misuraca				
County:	Ravenel	Project Manager:	Brad Hubbard			General Weather Conditions:	Ambient Air Temp (°F):				
Quality Assurance											
Meter Name	Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)			Serial #:	VU134N3T						
Calibration:				pH 4.0:	(Y) or N	pH 7.0:	Y or N	pH 10.0:	Y or N	S.C.:	(Y) or N
				0.0 NTU:	(Y) or N	1.0 NTU:	Y or N	10.0 NTU:	Y or N		
Well Information											
Well ID:	MW-30	Well Diameter (inches):	2		Conversion Factor (X gal/foot)	1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection:			
MW	IW	RW	Other	Screened Interval (ft.):		2 to 12		Total Well Depth (TWD) (ft.):	12		
-	Private WSW	Public WSW		Depth to Groundwater (DGW) (ft.):		2.31		Free Product Thickness (ft.):	NA		
Length of water column (LWC = TWD - DGW) (ft.):				1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):			2.5
Purging Data											
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling			
Time (military)	08:25							.25			
PH (s.u.)	4.9							08:03			
Specific Conductivity (µS/cm)	175							4.19			
Water Temperature (°C)	25.07							175			
Turbidity (NTU)	18.3							25.03			
Dissolved Oxygen (mg/L)	7.97							18.9			
								7.97			
Sampling Data											
Sampled By:	C. Morris			Sampling Time:	8:03		Duplicate:	Y or N		If yes, Duplicate Time:	
Notes:	<div style="display: flex; justify-content: space-between;"> Gray Signature: </div>										

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information										
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca							
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny								
		Ambient Air Temp (°F): 80.3								
Quality Assurance										
Meter Name	Serial #: VU134N3T									
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	Calibration:			pH 4.0: (Y) or N			pH 7.0: Y or N		pH 10.0: Y or N	
				0.0 NTU: (Y) or N			1.0 NTU: Y or N		10.0 NTU: Y or N	
S.C.: (Y) or N										
Well Information										
Well ID: MW-31	Well Diameter (inches): 2 1" well = 0.041, 2" well = 0.166, 4" well = 0.652									
MW Private WSW	RW Public WSW		Other:		Screened Interval (ft.): 2 to 12		Total Well Depth (TWD) (ft.): 12			
Depth to Free Product (DFP) (ft.):		Free Product Thickness (ft.): NA								
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):			total volume bailed (gals.):			
Purging Data										
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling		
Time (military)	0.25							1438		
PH (s.u.)	4.97							4.97		
Specific Conductivity (µS/cm)	277							277		
Water Temperature (°C)	27.64							27.64		
Turbidity (NTU)	0.0							0.0		
Dissolved Oxygen (mg/L)	2.57							2.57		
Sampling Data										
Sampled By: C. Morris		Sampling Time: 1438		Duplicate: Y or N		If yes, Duplicate Time:				
Notes: Grab										
Signature: Carolyn Morris										

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information																											
Date: 09/20/23		Site ID #: 01589		Site Name: Circle K # 2720886		Field Personnel: C. Morris, J. Gray, Y. Misuraca																					
County: Ravenel		Project Manager: Brad Hubbard		General Weather Conditions: Sunny		Ambient Air Temp (°F): 90's																					
Quality Assurance																											
Meter Name		Serial #: VU134N3T		Calibration:																							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N																			
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N																					
Well Information																											
Well ID: MW-32		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump																					
- MW IW RW Other		Screened Interval (ft.): 3 to 13		Total Well Depth (TWD) (ft.):																							
- Private WSW Public WSW		Depth to Groundwater (DGP) (ft.): 3.69		Free Product Thickness (ft.): NA																							
Depth to Free Product (DFP) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):																							
Length of water column (LWC = TWD - DGP) (ft.):																											
Purging Data																											
Volume Purged (gallons)		Initial		1 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.		5 th Vol.		Post		Sampling											
		0.25		1245		6.20		7.25		29.69		24.9		1.30		1245		6.20		7.25		29.69		24.9		1.30	
Time (military)		PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Turbidity (NTU)		Dissolved Oxygen (mg/L)																	
Sampling Data																											
Sampled By: C. Morris		Sampling Time: 1245		Duplicate: Y or N		If yes, Duplicate Time: 1248																					
Notes: Grab Dup-2		Signature: Carolyn Morzuc																									



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information 257CK886.13

Date: 09/19/2023 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Partly Cloudy Ambient Air Temp (°F): 85°

Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:

ph, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 8.68 DO: Y or N

Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-34 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other

Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 2.19 Screened Interval (ft.): 3-13 Total Well Depth (TWD) (ft.): 13

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post
Volume Purged (gallons)						
Time (military)	1401					1401
PH (s.u.)	3.70					3.76
Specific Conductivity (µS/cm)	125					125
Water Temperature (°C)	26.37					26.37
Turbidity (NTU)	0.0					0.0
Dissolved Oxygen (mg/L)	4.36					4.36

Sampling Data

Sampled By: Joe Gray Sampling Time: 1401 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons: *600*



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Date: 09/19/2023 Site ID #: 01589 Site Name: Circle K 2720886
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear FL 92 Ambient Air Temp (°F): 85
 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 257CK886.13

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: MW-35 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW: Private-WSW RW Other
 Public-WSW

Screened Interval (ft.): 3-13 Total Well Depth (TWD) (ft.): 13
 Depth to Free Product (DFP) (ft.): 8.14 Free Product Thickness (ft.):
 Length of water column 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):
 (LWC = TWD - DGW) (ft.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1419						1419
PH (s.u.)	3.89						3.89
Specific Conductivity (µS/cm)	118						118
Water Temperature (°C)	25.01						25.01
Turbidity (NTU)	0.0						0.0
Dissolved Oxygen (mg/L)	7.66						7.66

Sampling Data
 Sampled By: Joe Gray Sampling Time: 1419 Duplicate: Y or N If yes, Duplicate Time:
 Signature: *Joe Gray*

Notes: 4315 Savannah Highway, Ravenel, SC
 Total Gallons: *6228*

Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Site Information			
Date: 09/20/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 80's

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW-36	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.57	Screened Interval (ft.): 3 to 13	Total Well Depth (TWD) (ft.): 13
Length of water column (LWC = TWD - DGW) (ft.): 10.43	1 casing volume (CV = LWC x X) (gals.): 1.73	3 casing volumes (3 x CV) (gals.): 5.19	total volume bailed (gals.): 9.0
	Free Product Thickness (ft.): NA		

	Purging Data					Post	Sampling
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.		
Volume Purged (gallons)	0.25	1.75	1.75	1.75	1.75		
Time (military)	1008	1011	1014	1016	1019		1023
PH (s.u.)	6.46	6.50	6.51	6.49	6.54		6.56
Specific Conductivity (µS/cm)	388	474	454	463	391		358
Water Temperature (°C)	29.94	29.23	28.87	28.81	28.72		27.92
Turbidity (NTU)	35.7	133	142	168	273		398
Dissolved Oxygen (mg/L)	1.00	1.50	1.66	1.96	2.38		1.84

Sampling Data	
Sampled By: C. Morris	Sampling Time: 1023
	Duplicate Y or N: <input checked="" type="radio"/> Y <input type="radio"/> N
	If yes, Duplicate Time: 1026

Notes: Well went Full 5 vol Dup-3
 Signature: Carolyn Motz

9.0 gallons purged

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720896	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny		Ambient Air Temp (°F): 80's					
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
							S.C.: (Y) or N		
Well Information									
Well ID: MW-37R	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1"	1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump				
MW Private WSW	RW Public WSW	Other:		Total Well Depth (TWD) (ft.): 15					
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.99			Free Product Thickness (ft.): NA					
Length of water column (LWC = TWD - DGW) (ft.): 11.01	1 casing volume (CV = LWC x X) (gals.): 1.82			3 casing volumes (3 x CV) (gals.): 5.48					
Purging Data									
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	0.50	2.0	2.0	2.0	2.0	2.0			
Time (military)	1219	1223	1226	1229	1233	1238		1238	
PH (s.u.)	5.30	5.23	5.15	5.14	5.12	5.15		5.15	
Specific Conductivity (µS/cm)	0.268	0.263	0.261	0.260	0.258	0.261		0.261	
Water Temperature (°C)	29.68	28.47	27.91	27.49	28.17	27.51		27.51	
Turbidity (NTU)	128	790	783	796	793	799		799	
Dissolved Oxygen (mg/L)	1.516	1.66	1.90	1.80	1.53	1.37		1.37	
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1238	Duplicate: Y or N		If yes, Duplicate Time:					
Notes: Well went full 5 volumes Purged 10.50 gal.									
Signature: C. Morris									

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date:	09/19/23	Site ID #:	01589	Site Name:	Circle K # 2720886	Field Personnel:	C. Morris, J. Gray, Y. Misuraca		
County:	Ravenel	Project Manager:	Brad Hubbard		General Weather Conditions:	Clear			
				Ambient Air Temp (°F):		70.5			
Quality Assurance									
Meter Name	Serial #: VU134N3T			Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N		
	0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N				
Well Information									
Well ID: MW-38R	Well Diameter (inches): 2			Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652			Method of Purging/Sample Collection: (Bailer) Pump		
MW - Private WSW	Other:		Screened Interval (ft.): 5 to 15						
Depth to Free Product (DFP) (ft.):	3.89			Total Well Depth (TWD) (ft.): 15					
Length of water column (LWC = TWD - DGW) (ft.):	11.11			Depth to Groundwater (DGW) (ft.): 1.84			Free Product Thickness (ft.): NA		
1 casing volume (CV = LWC x X) (gals.): 1.84				3 casing volumes (3 x CV) (gals.): 5.53			total volume bailed (gals.): 10.25		
Purging Data									
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	9.25	2.0	2.0	2.0	2.0	2.0			
Time (military)	1017	1021	1025	1029	1033	1038		1038	
PH (s.u.)	5.08	4.94	4.86	4.72	4.62	4.64		4.64	
Specific Conductivity (µS/cm)	0.272	0.290	0.285	0.296	0.290	0.276		0.276	
Water Temperature (°C)	30.14	28.2	26.76	26.09	25.61	26.10		26.10	
Turbidity (NTU)	0.0	356	543	550	572	623		623	
Dissolved Oxygen (mg/L)	1.20	2.07	5.15	1.49	2.25	1.44		1.44	
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1038			Duplicate: Y or N			If yes, Duplicate Time:		
Notes: Well went full 5 vol. 10.25 gal purged									
						Signature: Carolyn Morrison			



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Date: 09 / 20 / 2023 Site ID # 01589 Site Name: Circle K 2720886 257CK886.13
 County: Charleston Project Manager: Brad Hubbard Field Personnel: J. Gray, M. Morris, Y. Misuraca

General Weather Conditions: Ambient Air Temp (°F):
 Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: **D MW-1** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other
 Private-WSW Public-WSW
 Depth to Free Product (DFP) (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): **33.67**
 Screened Interval (ft.): **34 to 39**
 Total Well Depth (TWD) (ft.): **39**
 Free Product Thickness (ft.):
 5 casing volumes (5 x CV) (gals.):


Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	0.50	5.50					1.3
Time (military)	1205	1211					1217
PH (s.u.)	7.89	7.78					7.51
Specific Conductivity (µS/cm)	0.425	0.423					0.425
Water Temperature (°C)	32.46	26.74					26.47
Turbidity (NTU)	96.0	95.3					150
Dissolved Oxygen (mg/L)	1.11	2.08					0.91

Sampled By: Joe Gray
 Sampling Time: 1217 Duplicate: Y or **N** If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC
 Signature: *Joe Gray*
 Total Gallons: 7.3 gallons
 Purged a 2nd vol. + 1.3 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information											
Date: 09/19/23		Site ID #: 01589		Site Name: Circle K # 2720886		Field Personnel: C. Morris, J. Gray, Y. Misuraca					
County: Ravenel		Project Manager: Brad Hubbard		General Weather Conditions:						Ambient Air Temp (°F):	
Quality Assurance											
Meter Name		Serial #: VU134N3T		Calibration:						S.C.: (Y) or N	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		1.0 NTU: Y or N		10.0 NTU: Y or N	
Well Information											
Well ID: MW-2		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection:				Pump	
MW Private WSW		RW Public WSW		Other:		Screened Interval (ft.): 34 to 39		Total Well Depth (TWD) (ft.): 39		S.C.: (Y) or N	
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 3.12		Free Product Thickness (ft.): NA		3 casing volumes (3 x CV) (gals.): 17.86		total volume bailed (gals.): 6.50			
Length of water column (LWC = TWD - DGW) (ft.): 35.88		1 casing volume (CV = LWC x X) (gals.): 5.95		Purging Data							
Purging Data											
Volume Purged (gallons)		Initial		1st Vol.		2nd Vol.		3rd Vol.		4th Vol.	
Time (military)		0.50		6.00						5th Vol.	
PH (s.u.)		0.903		0.917						6.00	
Specific Conductivity (µS/cm)		4.56		6.89						5.89	
Water Temperature (°C)		0.417		0.415						0.415	
Turbidity (NTU)		24.73		24.47						24.47	
Dissolved Oxygen (mg/L)		30.53		250						250	
		5.94		5.76						5.76	
Sampling Data											
Sampled By: C. Morris		Y.		Sampling Time: 0917		Duplicate: Y or N		If yes, Duplicate Time:			
Notes:										Signature: 	
Well purged @ 1st volume											

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny		Ambient Air Temp (°F): 80's					
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N	S.C.: (Y) or N							
Well Information									
Well ID: MW-3	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1"	1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump				
MW Private WSW	RW Public WSW	Other:		Screened Interval (ft.): 35 to 40			Total Well Depth (TWD) (ft.): 40		
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 7.67		Free Product Thickness (ft.): NA			3 casing volumes (3 x CV) (gals.): 16.10		
Length of water column (LWC = TWD - DGW) (ft.): 32.33		1 casing volume (CV = LWC x X) (gals.): 5.36		total volume bailed (gals.):					
Purging Data									
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	0.50	5.50	4.00						
Time (military)	1303	1310	1319						13:14
pH (s.u.)	5.18	4.80	7.22						7.22
Specific Conductivity (µS/cm)	428	456	434						434
Water Temperature (°C)	27.20	26.52	25.62						25.40
Turbidity (NTU)	0.0	391	193						600
Dissolved Oxygen (mg/L)	2.03	2.33	4.29						4.29
Sampling Data									
Sampled By: C. Morris	Sampling Time: 13:19	Duplicate: Y or N	If yes, Duplicate Time:						
Notes: purged @ 10 gallons Signature: Carolyn Martin									



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Date: 09/19/2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

257CK886.13

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: B MW-4 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW Private-WSW Public-WSW Other Screened Interval (ft.): 40-45 Total Well Depth (TWD) (ft.): 45

Depth to Free Product (DFP) (ft.): 4.77 Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 40.57 1 casing volume (CV = LWC x C) (gals.): 6.72 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
.5	7.0						2.0
15.18	17.25						1530
8.32	7.25						7.16
3.11	3.72						379
24.88	23.74						22.67
59.4	6.8						0.0
2.20	1.75						359

Sampling Data
 Sampled By: Joe Gray Sampling Time: 1530 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: Joseph Perry Total Gallons: 9.5 gallons pumped
Purged @ 1st Vol. + 2.0 gallons



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Site ID # 01589 Site Name: Circle K 2720886 257CK886.13
 Project Manager: Brad Hubbard Field Personnel: J. Gray, M. Morris, Y. Misuraca

County: Charleston General Weather Conditions: Clear Ambient Air Temp (°F): 85.0
Quality Assurance

Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 Probe / HGS# VH0RX7EO pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: **D MW- S** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other
 Private-WSW Public-WSW
 Depth to Free Product (DFP) (ft.): Depth to Groundwater (DGW) (ft.): Screened Interval (ft.): Total Well Depth (TWD) (ft.): 43

Length of water column (LWC = TWD - DGW) (ft.): 33.91 1 casing volume (CV = LWC x C) (gals.): 5.62 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	25	550	550					1.5
Time (military)	1439	1448	1458					1502
PH (s.u.)	6.48	6.80	6.84					6.94
Specific Conductivity (µS/cm)	290	331	336					340
Water Temperature (°C)	25.32	23.54	22.57					20.40
Turbidity (NTU)	0.0	0.0	0.0					599
Dissolved Oxygen (mg/L)	8.61	3.58	2.32					2.99

Sampling Data
 Sampled By: Joe Gray Sampling Time: 1502 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joseph Gray* Total Gallons: 12.75 gallons
 Purged 2 vol Vels + 1.5 gal/Water



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Date: 09 / 20 / 2023 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 80's

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration:
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: RW-1 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW: ~~RAW~~ Other: Private-WSW Public-WSW
 Depth to Free Product (DFP) (ft.): 5.68 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1239						1239
PH (s.u.)	5.98						5.98
Specific Conductivity (µS/cm)	3.05						3.05
Water Temperature (°C)	32.42						32.42
Turbidity (NTU)	49.9						49.9
Dissolved Oxygen (mg/L)	0.27						0.27

Sampled By: Joe Gray
 Sampling Time: 1239 Duplicate: Y or N
 Signature: *Joe Gray*
 Total Gallons: 5

Notes: 4315 Savannah Highway, Ravenel, SC



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Date: 09 / 20 / 2023		Site ID # 01589		Site Name: Circle K 2720886		Field Personnel: J. Gray, M. Morris, Y. Misuraca	
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: Cloudy		Ambient Air Temp (°F): 82°	
Quality Assurance							
Meter Name: Horiba multimeter		Serial #: YPXN1DXL		Calibration:			
pH, conductivity		3.99, 4.49		pH 4.0: (Y) or N		pH 7.0: Y or N	
Dissolved Oxygen (mg/L)		8.68		DO: Y or N		S.C.: (Y) or N	
Turbidity (NTU)		0.0		Turb.: 0.0 NTU: (Y) or N		10.0 NTU: Y or N	
Well Information							
Well ID: RW-2		Well Diameter (in): 2		Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: Bailor Pump	
MW Private-WSW		RW Public-WSW		Other		Screened Interval (ft.): 2-12	
Depth to Free Product (DFP) (ft.):		5.41		Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):	
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x C) (gals.):		5 casing volumes (5 x CV) (gals.):		Total Well Depth (TWD) (ft.): 12	
Purging Data							
Volume Purged (gallons)		1st Vol.		2nd Vol.		3rd Vol.	
Time (military)		1336		4th Vol.		5th Vol.	
PH (s.u.)						Post	
Specific Conductivity (µS/cm)						1336	
Water Temperature (°C)						4.70	
Turbidity (NTU)						1.840	
Dissolved Oxygen (mg/L)						29.68	
						93.1	
						1.46	
Sampling Data							
Sampled By: Joe Gray		Sampling Time: 1336		Duplicate: Y or N		If yes, Duplicate Time:	
Notes: 4315 Savannah Highway, Ravenel, SC		Signature: <i>Joe Gray</i>		Total Gallons:			

GRUB

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/20/23		Site ID #: _____		Site Name: _____		Field Personnel: Y. Misuraca			
County: _____		Project Manager: _____		General Weather Conditions: _____		Ambient Air Temp (°F): _____			
Quality Assurance									
Meter Name		Serial #: VU134N3T		Calibration: _____					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
Well Information									
Well ID: MW- RW-4		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) _____ Pump _____			
MW IW RW Other: _____		Private WSW Public WSW		Screened Interval (ft.): 2.0 to 12.0		Total Well Depth (TWD) (ft.): 12.0			
Depth to Free Product (DFP) (ft.): _____		Depth to Groundwater (DGW) (ft.): 4.31		Free Product Thickness (ft.): NA		total volume bailed (gals.): _____			
Length of water column (LWC = TWD - DGW) (ft.): _____		1 casing volume (CV = LWC x X) (gals.): _____		3 casing volumes (3 x CV) (gals.): _____					
Purging Data									
Initial		1st Vol.		2nd Vol.		3rd Vol.		4th Vol.	
Volume Purged (gallons)		.25							
Time (military)		11:33							
PH (s.u.)		5.92							
Specific Conductivity (µS/cm)		425							
Water Temperature (°C)		31.02							
Turbidity (NTU)		159							
Dissolved Oxygen (mg/L)		6.08							
Sampling Data									
Sampled By: _____		Sampling Time: 11:33		Duplicate: Y or <input checked="" type="radio"/> N		If yes, Duplicate Time: _____			
Notes: _____		Grab		Signature: _____		Y. Misuraca			

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: **09/20/23** Site ID #: **01589** Site Name: **Circle K # 2720886** Field Personnel: **C. Morris, J. Gray, Y. Misuraca**
 County: **Ravenel** Project Manager: **Brad Hubbard** General Weather Conditions: **Sunny** Ambient Air Temp (°F): **80's**

Quality Assurance

Meter Name: **VU134N3T** Serial #: **VU134N3T** Calibration: _____
 Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)
 pH 4.0: (Y) or N _____ pH 7.0: Y or N _____ pH 10.0: Y or N _____ S.C.: (Y) or N _____
 0.0 NTU: (Y) or N _____ 1.0 NTU: Y or N _____ 10.0 NTU: Y or N _____

Well Information

Well ID: **MW-5** Well Diameter (inches): **2** Conversion Factor (X gal/foot) **1"** well = 0.041, **2"** well = 0.166, **4"** well = 0.652 Method of Purging/Sample Collection: _____
 MW Private WSW Public WSW Other: _____ Screened Interval (ft.): _____ Total Well Depth (TWD) (ft.): **12**
 Depth to Free Product (DFP) (ft.): _____ Depth to Groundwater (DGM) (ft.): **3.52** Free Product Thickness (ft.): **NA**
 Length of water column (LWC = TWD - DGM) (ft.): _____ 1 casing volume (CV = LWC x X) (gals.): _____ 3 casing volumes (3 x CV) (gals.): _____ total volume bailed (gals.): _____

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling
Volume Purged (gallons)	0.25						
Time (military)	0921						0921
PH (s.u.)	5.60						5.10
Specific Conductivity (µS/cm)	621						621
Water Temperature (°C)	29.01						29.01
Turbidity (NTU)	74.8						74.8
Dissolved Oxygen (mg/L)	1.36						1.36

Sampling Data

Sampled By: **C. Morris** Sampling Time: **0921** Duplicate: **Y or N** If yes, Duplicate Time: _____

Notes: **Grab** Signature: **Caitlyn Morrell**

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/20/23	Site ID #:	Site Name:		Field Personnel: Y. Misuraca					
County:	Project Manager:	General Weather Conditions:		Ambient Air Temp (°F):					
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N				
		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N					
Well Information									
Well ID: MW- RW-6	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW Public WSW Other:	Screened Interval (ft.): 2.0 to 12.0	Total Well Depth (TWD) (ft.): 12.0							
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.87	Free Product Thickness (ft.): NA							
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):						
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Time (military)	7:25								7:25
PH (s.u.)	5.25								5.25
Specific Conductivity (µS/cm)	414								414
Water Temperature (°C)	26.26								26.26
Turbidity (NTU)	191								191
Dissolved Oxygen (mg/L)	7.20								7.20
Sampling Data									
Sampled By:	Sampling Time: 9:20	Duplicate: Y or <input checked="" type="radio"/> N	If yes, Duplicate Time:						
Notes:	Signature: <i>YM</i>								

Gray



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Date: 09 / 20 / 2023 Site ID #: 01589 Site Name: Circle K 2720886 257CK886.13 Site Information
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear/Sunny Ambient Air Temp (°F): 81° Field Personnel: J. Gray, M. Morris, Y. Misuraca

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL Calibration: Method of Purging/Sample Collection: Bailor Pump
 pH, conductivity 3.99, 4.49 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: RW-7 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652
 MW: RW Private-WSW Public-WSW Other
 Depth to Free Product (DFP) (ft.): Screened Interval (ft.): 3-13 Total Well Depth (TWD) (ft.): 13
 Length of water column (LWC = TWD - DGW) (ft.): Depth to Groundwater (DGW) (ft.): 5.64 Free Product Thickness (ft.):
 1 casing volume (CV = LWC x C) (gals.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data								
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	1156							1156
PH (s.u.)	5.83							5.83
Specific Conductivity (µS/cm)	1320							1320
Water Temperature (°C)	29.16							29.16
Turbidity (NTU)	53.8							53.8
Dissolved Oxygen (mg/L)	1.73							1.73

Sampled By: Joe Gray Sampling Time: 1156 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons: *6000*



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information
 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: J. Gray, M. Morris, Y. Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 74°

Quality Assurance
 Meter Name: Horiba multimeter Serial #: YPXN1DXL
 pH, conductivity 3.99, 4.49 Probe / HGS# VH0RX7E0 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 8.68 DO: Y or N
 Turbidity (NTU) 0.0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information
 Well ID: RW-8 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW IW RW Other
 Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): Screened Interval (ft.): 3-13 Total Well Depth (TWD) (ft.): 13
 Length of water column (LWC = TWD - DGW) (ft.): 10.31 Depth to Groundwater (DGW) (ft.): 2.69 Free Product Thickness (ft.):
 1 casing volume (CV = LWC x C) (gals.): 6.72 5 casing volumes (5 x CV) (gals.):

	Purging Data					Sampling
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	
Initial						
Volume Purged (gallons)	.5	7.0				
Time (military)	1013	1023				1023
PH (s.u.)	5.01	5.48	5.65			5.65
Specific Conductivity (µS/cm)	161	383	419			419
Water Temperature (°C)	28.24	27.86	27.43			27.43
Turbidity (NTU)	103	328	179			179
Dissolved Oxygen (mg/L)	2.64	0.97	1.69			1.69

Sampling Data
 Sampled By: Joe Gray Sampling Time: 1023 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons: 14.5 yellow purged.

Purged P 2nd Well

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 09/20/23	Site ID #: _____	Site Name: _____	Field Personnel: Y. Misuraca
County: _____	Project Manager: _____	General Weather Conditions: _____	Ambient Air Temp (°F): _____

Quality Assurance			
Meter Name	Serial #: VU134N8T	Calibration: _____	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW- RW-9	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: _____
MW Private WSW	RW Public WSW	Other: _____	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
		3.0 to 3.0	13.0
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

	Purging Data					Post Sampling
	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	
Initial						
Volume Purged (gallons)	25					25
Time (military)	4:37					4:37
PH (s.u.)	5.15					5.15
Specific Conductivity (µS/cm)	503					503
Water Temperature (°C)	25.76					25.76
Turbidity (NTU)	1.95					1.95
Dissolved Oxygen (mg/L)	8.18					8.18

Sampling Data	
Sampled By: _____	Sampling Time: 4:37
Notes: Grab	Duplicate: Y or N
	If yes, Duplicate Time: _____
Signature: <i>Y. Misuraca</i>	

Underground Storage Tank Management Division Field Data Information Sheet – Sampling


Site Information											
Date: 09/20/23		Site ID #: _____		Site Name: _____		Field Personnel: Y. Misuraca		Ambient Air Temp (°F): _____		S.C.: (Y) or N	
County: _____		Project Manager: _____		General Weather Conditions: _____		pH 7.0: Y or N		pH 10.0: Y or N		10.0 NTU: Y or N	
Quality Assurance											
Meter Name		Serial #: VU134N3T		Calibration: _____		pH 4.0: (Y) or N		pH 7.0: Y or N		S.C.: (Y) or N	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		0.0 NTU: (Y) or N		1.0 NTU: Y or N		Total Well Depth (TWD) (ft.): 13.0		Free Product Thickness (ft.): NA		Method of Purging/Sample Collection: (Bailer) Pump	
Well Information											
Well ID: MW- RW10		Well Diameter (inches): 2		Conversion Factor (X gal/foot) 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Screened Interval (ft.): 3.0 to 13.0		3 casing volumes (3 x CV) (gals.): 6.64		total volume bailed (gals.): _____	
- MW IW RW Other: _____		Depth to Groundwater (DGW) (ft.): 2.01		1 casing volume (CV = LWC x X) (gals.): 6.64		Depth to Free Product (DFP) (ft.): _____		Free Product Thickness (ft.): NA		Method of Purging/Sample Collection: (Bailer) Pump	
- Private WSW Public WSW		Length of water column (LWC = TWD - DGW) (ft.): 10.19		Purging Data		3 casing volumes (3 x CV) (gals.): 6.64		Free Product Thickness (ft.): NA		total volume bailed (gals.): _____	
Depth to Free Product (DFP) (ft.): _____		Purging Data		3 casing volumes (3 x CV) (gals.): 6.64		Free Product Thickness (ft.): NA		total volume bailed (gals.): _____		Method of Purging/Sample Collection: (Bailer) Pump	
Volume Purged (gallons)		Initial		1st Vol.		2nd Vol.		3rd Vol.		4th Vol.	
Time (military)		.50		6.5		6.5		6.5		6.5	
PH (s.u.)		4.56		10:15		10:20		10:26		10:33	
Specific Conductivity (µS/cm)		182		4.48		4.47		4.49		4.59	
Water Temperature (°C)		31.08		17.4		17.6		17.3		17.1	
Turbidity (NTU)		1.1		23.74		33.23		24.11		27.42	
Dissolved Oxygen (mg/L)		4.44		2.78		2.42		2.43		2.88	
Sampling Time: _____		Duplicate: Y or N		Duplicate: Y or N		Duplicate: Y or N		Duplicate: Y or N		Duplicate: Y or N	
Notes:											
Signature: _____											

Y. Misuraca
Purged @ 33 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 09/19/23	Site ID #: 01589	Site Name: Circle K # 2720886	Field Personnel: C. Morris, J. Gray, Y. Misuraca						
County: Ravenel	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 80's						
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
Well Information									
Well ID: MW-12	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW	Other:	Screened Interval (ft.): 1 to 6	Total Well Depth (TWD) (ft.): 6						
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGM) (ft.): 1.08	Free Product Thickness (ft.): NA							
Length of water column (LWC = TWD - DGM) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.): 0.25						
Purging Data									
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling		
Volume Purged (gallons)	0.25								1147
Time (military)	1147								5:37
PH (s.u.)	5.37								0.186
Specific Conductivity (µS/cm)	0.186								31.17
Water Temperature (°C)	31.17								1230
Turbidity (NTU)	1230								1.23
Dissolved Oxygen (mg/L)	1.23								
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1147	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:	Signature: Carolyn Morville								
- Grab									

APPENDIX B
PURGE WATER MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 781-815-1100	4. Waste Tracking Number 23SCMA0047-001	
5. Generator's Name and Mailing Address Atlas Technical, dba ATC Group Services 6904 North Main Street Columbia SC 29203		Generator's Site Address (if different than mailing address) 4315 Savannah Highway Ravenel SC 29470			
Generator's Phone: 803-929-8059					
6. Transporter 1 Company Name Moran Environmental Recovery, LLC.			U.S. EPA ID Number FLD092718576		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address American Bio-Mass 36 Clearwater Drive Walterboro, SC 29488			U.S. EPA ID Number		
Facility's Phone: 843-539-1759					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.			DM		P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name H. Brad Hubbard (Atlas Technical)			Signature 		Month Day Year 09 26 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name			Signature		Month Day Year
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

APPENDIX C
LABORATORY ANALYTICAL REPORTS

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

257CK88613

SGS Job Number: FC9805

Sampling Dates: 09/19/23 - 09/20/23



Report to:

ATC Group Services LLC.
6904 North Main Street Suite 107
Columbia, SC 29203
brad.hubbard@atcassociates.com

ATTN: Brad Hubbard

Total number of pages in report: 132



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)

DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),

AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
 Project No: 257CK88613

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the MDL

FC9805-1	09/20/23	12:30	GMM	09/22/23	AQ	Ground Water	01589-MW 1
FC9805-2	09/20/23	12:29	GMM	09/22/23	AQ	Ground Water	01589-MW 2
FC9805-3	09/20/23	12:28	GMM	09/22/23	AQ	Ground Water	01589-MW 3
FC9805-4	09/20/23	11:58	GMM	09/22/23	AQ	Ground Water	01589-MW 4
FC9805-5	09/20/23	12:10	GMM	09/22/23	AQ	Ground Water	01589-MW 5
FC9805-6	09/20/23	09:46	GMM	09/22/23	AQ	Ground Water	01589-MW 6
FC9805-7	09/20/23	08:57	GMM	09/22/23	AQ	Ground Water	01589-MW 7
FC9805-8	09/20/23	08:39	GMM	09/22/23	AQ	Ground Water	01589-MW 8
FC9805-9	09/20/23	09:22	GMM	09/22/23	AQ	Ground Water	01589-MW 9
FC9805-10	09/20/23	08:37	GMM	09/22/23	AQ	Ground Water	01589-MW 10
FC9805-11	09/20/23	08:31	GMM	09/22/23	AQ	Ground Water	01589-MW 11
FC9805-12	09/20/23	12:29	GMM	09/22/23	AQ	Ground Water	01589-MW 12



Sample Summary

(continued)

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
 Project No: 257CK88613

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC9805-13	09/19/23	11:15	GMM 09/22/23	AQ	Ground Water	01589-MW 13
FC9805-14	09/19/23	12:49	GMM 09/22/23	AQ	Ground Water	01589-MW 14
FC9805-15	09/19/23	13:09	GMM 09/22/23	AQ	Ground Water	01589-MW 15
FC9805-16	09/19/23	13:49	GMM 09/22/23	AQ	Ground Water	01589-MW 16
FC9805-17	09/19/23	10:29	GMM 09/22/23	AQ	Ground Water	01589-MW 17
FC9805-18	09/19/23	10:09	GMM 09/22/23	AQ	Ground Water	01589-MW 18
FC9805-19	09/19/23	09:49	GMM 09/22/23	AQ	Ground Water	01589-MW 19
FC9805-20	09/19/23	09:29	GMM 09/22/23	AQ	Ground Water	01589-MW 20
FC9805-21	09/19/23	09:43	GMM 09/22/23	AQ	Ground Water	01589-MW 21
FC9805-22	09/19/23	08:20	GMM 09/22/23	AQ	Ground Water	01589-MW 22
FC9805-23	09/19/23	08:05	GMM 09/22/23	AQ	Ground Water	01589-MW 23
FC9805-24	09/19/23	12:15	GMM 09/22/23	AQ	Ground Water	01589-MW 24
FC9805-25	09/19/23	14:03	GMM 09/22/23	AQ	Ground Water	01589-MW 25



Sample Summary

(continued)

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
 Project No: 257CK88613

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC9805-26	09/19/23	11:50	GMM 09/22/23	AQ	Ground Water	01589-MW 26R
FC9805-27	09/19/23	12:37	GMM 09/22/23	AQ	Ground Water	01589-MW 27
FC9805-28	09/19/23	13:55	GMM 09/22/23	AQ	Ground Water	01589-MW 28
FC9805-29	09/19/23	10:53	GMM 09/22/23	AQ	Ground Water	01589-MW 29R
FC9805-30	09/19/23	08:03	GMM 09/22/23	AQ	Ground Water	01589-MW 30
FC9805-31	09/19/23	14:38	GMM 09/22/23	AQ	Ground Water	01589-MW 31
FC9805-32	09/19/23	12:45	GMM 09/22/23	AQ	Ground Water	01589-MW 32
FC9805-33	09/19/23	14:01	GMM 09/22/23	AQ	Ground Water	01589-MW 34
FC9805-34	09/19/23	14:19	GMM 09/22/23	AQ	Ground Water	01589-MW 35
FC9805-35	09/19/23	10:23	GMM 09/22/23	AQ	Ground Water	01589-MW 36
FC9805-36	09/19/23	12:38	GMM 09/22/23	AQ	Ground Water	01589-MW 37R
FC9805-37	09/19/23	10:38	GMM 09/22/23	AQ	Ground Water	01589-MW 38R
FC9805-38	09/20/23	12:17	GMM 09/22/23	AQ	Ground Water	01589-DMW 1



Sample Summary

(continued)

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Project No: 257CK88613

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FC9805-39	09/19/23	09:17 GMM	09/22/23	AQ	Ground Water	01589-DMW 2
FC9805-40	09/19/23	13:19 GMM	09/22/23	AQ	Ground Water	01589-DMW 3
FC9805-41	09/19/23	15:30 GMM	09/22/23	AQ	Ground Water	01589-DMW 4
FC9805-42	09/19/23	15:02 GMM	09/22/23	AQ	Ground Water	01589-DMW 5
FC9805-43	09/20/23	12:39 GMM	09/22/23	AQ	Ground Water	01589-RW 1
FC9805-44	09/20/23	13:36 GMM	09/22/23	AQ	Ground Water	01589-RW 2
FC9805-45	09/20/23	11:45 GMM	09/22/23	AQ	Ground Water	01589-RW 3
FC9805-46	09/20/23	11:33 GMM	09/22/23	AQ	Ground Water	01589-RW 4
FC9805-47	09/20/23	09:21 GMM	09/22/23	AQ	Ground Water	01589-RW 5
FC9805-48	09/20/23	09:20 GMM	09/22/23	AQ	Ground Water	01589-RW 6
FC9805-49	09/20/23	11:56 GMM	09/22/23	AQ	Ground Water	01589-RW 7
FC9805-50	09/20/23	10:23 GMM	09/22/23	AQ	Ground Water	01589-RW 8
FC9805-51	09/20/23	09:37 GMM	09/22/23	AQ	Ground Water	01589-RW 9



Sample Summary

(continued)

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Project No: 257CK88613

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC9805-52	09/20/23	10:41	GMM 09/22/23	AQ	Ground Water	01589-RW 10
FC9805-53	09/19/23	11:47	GMM 09/22/23	AQ	Ground Water	01589-RW 12
FC9805-54	09/20/23	12:31	GMM 09/22/23	AQ	Ground Water	01589-DUP 1
FC9805-55	09/20/23	12:48	GMM 09/22/23	AQ	Ground Water	01589-DUP 2
FC9805-56	09/20/23	10:26	GMM 09/22/23	AQ	Ground Water	01589-DUP 3
FC9805-57	09/19/23	14:45	GMM 09/22/23	AQ	Surface Water	01589-SW 1
FC9805-58	09/19/23	14:15	GMM 09/22/23	AQ	Surface Water	01589-SW 2
FC9805-59	09/19/23	14:30	GMM 09/22/23	AQ	Surface Water	01589-SW 3
FC9805-60	09/19/23	09:45	GMM 09/22/23	AQ	Surface Water	01589-SW 4
FC9805-61	09/19/23	11:35	GMM 09/22/23	AQ	Surface Water	01589-SW 5
FC9805-62	09/19/23	09:28	GMM 09/22/23	AQ	Surface Water	01589-SW 6
FC9805-63	09/20/23	14:35	GMM 09/22/23	AQ	Surface Water	01589-SW 7
FC9805-64	09/20/23	14:48	GMM 09/22/23	AQ	Surface Water	01589-SW 8



Sample Summary

(continued)

ATC Group Services LLC

Job No: FC9805

Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Project No: 257CK88613

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC9805-65	09/20/23	15:02	GMM 09/22/23	AQ	Surface Water	01589-SW 9
FC9805-66	09/19/23	13:37	GMM 09/22/23	AQ	Field Blank Water	01589-FB 1
FC9805-67	09/20/23	14:28	GMM 09/22/23	AQ	Field Blank Water	01589-FB 2
FC9805-68	09/19/23	00:00	GMM 09/22/23	AQ	Trip Blank Water	01589-TRIP BLANK 1
FC9805-69	09/19/23	00:00	GMM 09/22/23	AQ	Trip Blank Water	01589-TRIP BLANK 2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC

Job No: FC9805

Site: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Report Date: 9/29/2023 3:27:17 PM

On 09/22/2023, 65 Sample(s), 2 Trip Blank(s) and 2 Field Blank(s) were received at SGS North America Inc - Orlando, at a maximum corrected temperature of 3.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC9805 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V1A1933

Sample(s) FC9805-4MS, FC9805-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

Sample(s) FC9805-16, FC9805-3 have surrogates outside control limits.

V1A1933-MB: Sample was treated with an anti-foaming agent.

FC9805-3: Dilute due to high non-target. Confirmation run for surrogate recoveries.

FC9805-12: Dilution required due to matrix interference (non-target compounds above calibration range). Sample was not preserved to a pH < 2.

FC9805-13: Sample was treated with an anti-foaming agent.

FC9805-14: Dilution required due to matrix interference (non-target compounds above calibration range).

FC9805-16: Confirmation run for surrogate recoveries.

FC9805-17: Sample was treated with an anti-foaming agent.

FC9805-18: Sample was treated with an anti-foaming agent.

Matrix: AQ

Batch ID: V1A1935

Sample(s) FC9743-36MS, FC9743-36MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

Sample(s) FC9805-64 have surrogates outside control limits. Confirmation run for surrogate recoveries. Dilution required due to matrix interference (non-target compounds above calibration range).

V1A1935-MB: Sample was treated with an anti-foaming agent.

FC9805-61: Sample was treated with an anti-foaming agent.

FC9805-62: Sample was treated with an anti-foaming agent.

FC9805-63: Sample was treated with an anti-foaming agent.

FC9805-64: Confirmation run for surrogate recoveries. Dilution required due to matrix interference (non-target compounds above calibration range).

Matrix: AQ

Batch ID: V1A1936

Sample(s) FC9821-10MS, FC9821-10MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Probable cause is due to matrix interference.

V1A1936-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ

Batch ID: V1A1937

Sample(s) FC9899-5MS, FC9899-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

FC9805-30: Sample vial(s) contained significant headspace.

FC9805-50: Sample vial(s) contained significant headspace.

Matrix: AQ

Batch ID: V2O3086

Sample(s) FC9823-12MS, FC9823-12MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Naphthalene are outside control limits. Probable cause is due to matrix interference.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V2O3086

Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Naphthalene, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

V2O3086-MB: Sample was treated with an anti-foaming agent.

FC9805-3 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-3 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND.

FC9805-6 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND.

FC9805-15 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-15 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND.

FC9805-16 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-16 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND.

FC9805-16: Dilution required due to matrix interference (non-target compounds above calibration range).

FC9805-54 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-54 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND.

FC9805-54: Dilution required due to matrix interference (non-target compounds above calibration range).

Matrix: AQ

Batch ID: V2O3089

Sample(s) FC9886-1MS, FC9886-1MSD were used as the QC samples indicated.

V2O3089-MB: Sample was treated with an anti-foaming agent.

FC9805-7 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND. Associated CCV outside control limits low.

FC9805-7 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-8 for Tert-Butyl Alcohol: Associated CCV outside control limits low.

FC9805-8 for Tert-Butyl Formate: Associated ICV outside control limits high, however sample ND. Associated CCV outside control limits low.

Matrix: AQ

Batch ID: V2P3852

Sample(s) FC9805-55MS, FC9805-55MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Tert-Butyl Formate are outside control limits.

Matrix Spike Duplicate Recovery(s) for Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

FC9805-55: Sample vial(s) contained significant headspace.

FC9805-55 for Ethyl Alcohol: Associated CCV outside control limits low.

Matrix: AQ

Batch ID: VI3025

Sample(s) FC9839-2MS, FC9839-2MSD were used as the QC samples indicated.

VI3025-MB: Sample was treated with an anti-foaming agent.

FC9805-21 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-22 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-23 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-24 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-25 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-26 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-27 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

FC9805-28 for Tert-Butyl Formate: Associated ICV outside control limits high, sample is ND.

Matrix: AQ

Batch ID: VN6497

Sample(s) FC9805-29MS, FC9805-29MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Tert-Butyl Formate are outside control limits.

Matrix Spike Recovery(s) for Tert-Amyl Alcohol, Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Tert-Butyl Formate are outside control limits. Probable cause is due to matrix interference.

FC9805-29: Confirmation run.

FC9805-31 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.

FC9805-33 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.

FC9805-34 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.

FC9805-36 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VN6497

FC9805-38 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-39 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-40 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-40: Sample was not preserved to a pH < 2.
FC9805-41 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-42 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-43 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-44 for Tert-Butyl Formate: Associated ICV and BS recovery outside control limits high, sample is ND.
FC9805-53 for Ethyl Alcohol: Results from different vials are not consistent; higher results were reported.

Matrix: AQ

Batch ID: VN6500

Sample(s) FC9805-46MS, FC9805-46MSD were used as the QC samples indicated.
Sample(s) FC9805-46 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
Blank Spike Recovery(s) for Tert-Butyl Formate are outside control limits.
Matrix Spike Recovery(s) for 1,2-Dichloroethane, 3,3-Dimethyl-1-Butanol, Benzene, Di-Isopropyl Ether, Ethyl Tert Butyl Ether, Ethylbenzene, Methyl Tert Butyl Ether, Naphthalene, Tert-Amyl Methyl Ether, Tert-Butyl Alcohol, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference.
Matrix Spike Duplicate Recovery(s) for 3,3-Dimethyl-1-Butanol, Naphthalene, Tert-Amyl Alcohol are outside control limits. Probable cause is due to matrix interference.
RPD(s) for MSD for 1,2-Dichloroethane, Benzene, Di-Isopropyl Ether, Ethyl Tert Butyl Ether, Ethylbenzene, Methyl Tert Butyl Ether, Naphthalene, Tert-Amyl Alcohol, Tert-Amyl Methyl Ether, Tert-Butyl Alcohol, Tert-Butyl Formate, Toluene, Xylene (total) are outside control limits for sample FC9805-46MSD. Probable cause is due to sample non-homogeneity.
FC9805-45 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-46 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-47 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-48 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-49 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-51 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-52 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-53 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-56 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-57 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-57: Sample was treated with an anti-foaming agent.
FC9805-58 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-58: Sample was treated with an anti-foaming agent.
FC9805-59 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-59: Sample was treated with an anti-foaming agent.
FC9805-64 for Tert-Butyl Formate: Associated ICV and BS outside control limits high, sample is ND.
FC9805-64: Sample was treated with an anti-foaming agent.
VN6500-MB: Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. - Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Kim Benham, Client Services (*Signature on File*)

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-1 01589-MW 1

Benzene	7400	100	31	ug/l	SW846 8260D
Toluene	19100	500	150	ug/l	SW846 8260D
Ethylbenzene	1070	100	36	ug/l	SW846 8260D
Xylene (total)	5080	300	72	ug/l	SW846 8260D
Methyl Tert Butyl Ether	294	100	23	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	232	200	24	ug/l	SW846 8260D
Tert-Amyl Alcohol	5130	2000	530	ug/l	SW846 8260D
Tert-Butyl Alcohol	965 J	2000	530	ug/l	SW846 8260D

FC9805-2 01589-MW 2

Benzene	2460	50	16	ug/l	SW846 8260D
Toluene	2470	50	15	ug/l	SW846 8260D
Ethylbenzene	200	50	18	ug/l	SW846 8260D
Xylene (total)	1100	150	36	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	23.0 J	100	12	ug/l	SW846 8260D
Tert-Amyl Alcohol	1530	1000	260	ug/l	SW846 8260D

FC9805-3 01589-MW 3

Benzene	49.2	5.0	1.6	ug/l	SW846 8260D
Toluene	4.3 J	5.0	1.5	ug/l	SW846 8260D
Ethylbenzene	3.0 J	5.0	1.8	ug/l	SW846 8260D
Xylene (total)	7.1 J	15	3.6	ug/l	SW846 8260D
Tert-Amyl Alcohol	41.6 J	100	26	ug/l	SW846 8260D

FC9805-4 01589-MW 4

No hits reported in this sample.

FC9805-5 01589-MW 5

No hits reported in this sample.

FC9805-6 01589-MW 6

Benzene	1830	50	16	ug/l	SW846 8260D
Toluene	4070	50	15	ug/l	SW846 8260D
Ethylbenzene	337	50	18	ug/l	SW846 8260D
Xylene (total)	4130	150	36	ug/l	SW846 8260D
Methyl Tert Butyl Ether	459	50	11	ug/l	SW846 8260D
Naphthalene	189 J	250	50	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	185	100	12	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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Tert-Amyl Alcohol		11700	1000	260	ug/l	SW846 8260D
Tert-Amyl Methyl Ether		29.1 J	100	12	ug/l	SW846 8260D
Tert-Butyl Alcohol		1500 J	4000	1100	ug/l	SW846 8260D

FC9805-7 01589-MW 7

Benzene		1.1	1.0	0.31	ug/l	SW846 8260D
Ethylbenzene		0.39 J	1.0	0.36	ug/l	SW846 8260D
Tert-Amyl Alcohol		22.8	20	5.3	ug/l	SW846 8260D

FC9805-8 01589-MW 8

No hits reported in this sample.

FC9805-9 01589-MW 9

Methyl Tert Butyl Ether		2.8	1.0	0.23	ug/l	SW846 8260D
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FC9805-10 01589-MW 10

No hits reported in this sample.

FC9805-11 01589-MW 11

No hits reported in this sample.

FC9805-12 01589-MW 12

Benzene ^a		71.7	10	3.1	ug/l	SW846 8260D
Toluene ^a		6.6 J	10	3.0	ug/l	SW846 8260D
Ethylbenzene ^a		7.9 J	10	3.6	ug/l	SW846 8260D
Ethyl Tert Butyl Ether ^a		6.6 J	20	2.4	ug/l	SW846 8260D
Tert-Amyl Alcohol ^a		260	200	53	ug/l	SW846 8260D

FC9805-13 01589-MW 13

Benzene ^b		1.0	1.0	0.31	ug/l	SW846 8260D
Ethylbenzene ^b		0.50 J	1.0	0.36	ug/l	SW846 8260D
Xylene (total) ^b		1.4 J	3.0	0.72	ug/l	SW846 8260D

FC9805-14 01589-MW 14

No hits reported in this sample.

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-15 01589-MW 15

Benzene	618	25	7.8	ug/l	SW846 8260D
Toluene	1520	25	7.5	ug/l	SW846 8260D
Ethylbenzene	192	25	8.9	ug/l	SW846 8260D
Xylene (total)	894	75	18	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	10.0 J	50	5.9	ug/l	SW846 8260D
Tert-Amyl Alcohol	212 J	500	130	ug/l	SW846 8260D

FC9805-16 01589-MW 16

Toluene ^c	2.2 J	5.0	1.5	ug/l	SW846 8260D
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FC9805-17 01589-MW 17

No hits reported in this sample.

FC9805-18 01589-MW 18

No hits reported in this sample.

FC9805-19 01589-MW 19

No hits reported in this sample.

FC9805-20 01589-MW 20

No hits reported in this sample.

FC9805-21 01589-MW 21

No hits reported in this sample.

FC9805-22 01589-MW 22

No hits reported in this sample.

FC9805-23 01589-MW 23

No hits reported in this sample.

FC9805-24 01589-MW 24

Methyl Tert Butyl Ether	1.0	1.0	0.23	ug/l	SW846 8260D
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Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-25 01589-MW 25

Benzene	13.2	1.0	0.31	ug/l	SW846 8260D
Methyl Tert Butyl Ether	2.1	1.0	0.23	ug/l	SW846 8260D

FC9805-26 01589-MW 26R

Methyl Tert Butyl Ether	8.9	1.0	0.23	ug/l	SW846 8260D
Di-Isopropyl Ether	1.1	1.0	0.24	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	5.3	2.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol	121	20	5.3	ug/l	SW846 8260D
Tert-Amyl Methyl Ether	1.2 J	2.0	0.24	ug/l	SW846 8260D
Tert-Butyl Alcohol	14.7 J	20	5.3	ug/l	SW846 8260D

FC9805-27 01589-MW 27

No hits reported in this sample.

FC9805-28 01589-MW 28

No hits reported in this sample.

FC9805-29 01589-MW 29R

Methyl Tert Butyl Ether	164	10	2.3	ug/l	SW846 8260D
Di-Isopropyl Ether	2.8 J	10	2.4	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	36.4	20	2.4	ug/l	SW846 8260D
Tert-Amyl Alcohol	6450	200	53	ug/l	SW846 8260D
Tert-Amyl Methyl Ether	20.6	20	2.4	ug/l	SW846 8260D
Tert-Butyl Alcohol	835	200	53	ug/l	SW846 8260D

FC9805-30 01589-MW 30

No hits reported in this sample.

FC9805-31 01589-MW 31

No hits reported in this sample.

FC9805-32 01589-MW 32

Benzene	11.2	1.0	0.31	ug/l	SW846 8260D
Toluene	0.65 J	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene	1.6	1.0	0.36	ug/l	SW846 8260D
Xylene (total)	2.5 J	3.0	0.72	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method	
		Methyl Tert Butyl Ether	7.2	1.0	0.23	ug/l	SW846 8260D
		Di-Isopropyl Ether	0.68 J	1.0	0.24	ug/l	SW846 8260D
		Ethyl Tert Butyl Ether	24.8	2.0	0.24	ug/l	SW846 8260D
		Tert-Amyl Alcohol	112	20	5.3	ug/l	SW846 8260D
		Tert-Amyl Methyl Ether	3.0	2.0	0.24	ug/l	SW846 8260D
		Tert-Butyl Alcohol	26.4	20	5.3	ug/l	SW846 8260D

FC9805-33 01589-MW 34

No hits reported in this sample.

FC9805-34 01589-MW 35

No hits reported in this sample.

FC9805-35 01589-MW 36

Benzene	3.2	1.0	0.31	ug/l	SW846 8260D
Toluene	5.2	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene	15.3	1.0	0.36	ug/l	SW846 8260D
Xylene (total)	8.3	3.0	0.72	ug/l	SW846 8260D
Naphthalene	1.9 J	5.0	1.0	ug/l	SW846 8260D
Tert-Amyl Alcohol	98.8	20	5.3	ug/l	SW846 8260D
Tert-Butyl Alcohol	7.1 J	20	5.3	ug/l	SW846 8260D

FC9805-36 01589-MW 37R

Methyl Tert Butyl Ether	2.3	1.0	0.23	ug/l	SW846 8260D
Tert-Amyl Methyl Ether	0.37 J	2.0	0.24	ug/l	SW846 8260D

FC9805-37 01589-MW 38R

Methyl Tert Butyl Ether	122	5.0	1.1	ug/l	SW846 8260D
Di-Isopropyl Ether	2.2 J	5.0	1.2	ug/l	SW846 8260D
Ethyl Tert Butyl Ether	30.1	10	1.2	ug/l	SW846 8260D
Tert-Amyl Alcohol	2710	100	26	ug/l	SW846 8260D
Tert-Amyl Methyl Ether	17.8	10	1.2	ug/l	SW846 8260D
Tert-Butyl Alcohol	618	100	27	ug/l	SW846 8260D

FC9805-38 01589-DMW 1

Benzene	0.65 J	1.0	0.31	ug/l	SW846 8260D
Toluene	2.6	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene	0.72 J	1.0	0.36	ug/l	SW846 8260D
Xylene (total)	3.0	3.0	0.72	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Naphthalene		2.3 J	5.0	1.0	ug/l	SW846 8260D
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FC9805-39 01589-DMW 2

No hits reported in this sample.

FC9805-40 01589-DMW 3

Methyl Tert Butyl Ether ^d		8.6	1.0	0.23	ug/l	SW846 8260D
Di-Isopropyl Ether ^d		0.32 J	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol ^d		17.5 J	20	5.3	ug/l	SW846 8260D
Tert-Amyl Methyl Ether ^d		2.0	2.0	0.24	ug/l	SW846 8260D

FC9805-41 01589-DMW 4

No hits reported in this sample.

FC9805-42 01589-DMW 5

No hits reported in this sample.

FC9805-43 01589-RW 1

Benzene		7990	500	160	ug/l	SW846 8260D
Toluene		22200	500	150	ug/l	SW846 8260D
Ethylbenzene		1630	500	180	ug/l	SW846 8260D
Xylene (total)		9270	1500	360	ug/l	SW846 8260D
Methyl Tert Butyl Ether		268 J	500	110	ug/l	SW846 8260D
Tert-Amyl Alcohol		3860 J	10000	2600	ug/l	SW846 8260D

FC9805-44 01589-RW 2

Benzene		6950	500	160	ug/l	SW846 8260D
Toluene		17400	500	150	ug/l	SW846 8260D
Ethylbenzene		1410	500	180	ug/l	SW846 8260D
Xylene (total)		6300	1500	360	ug/l	SW846 8260D
Methyl Tert Butyl Ether		989	500	110	ug/l	SW846 8260D
Ethyl Alcohol		68800000	10000000	4100000	ug/l	SW846 8260D
Tert-Amyl Alcohol		26300	10000	2600	ug/l	SW846 8260D

FC9805-45 01589-RW 3

Benzene		662	10	3.1	ug/l	SW846 8260D
Toluene		406	10	3.0	ug/l	SW846 8260D
Ethylbenzene		199	10	3.6	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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Xylene (total)		751	30	7.2	ug/l	SW846 8260D
Naphthalene		42.5 J	50	10	ug/l	SW846 8260D
Tert-Amyl Alcohol		517	200	53	ug/l	SW846 8260D
Tert-Amyl Methyl Ether		7.5 J	20	2.4	ug/l	SW846 8260D

FC9805-46 01589-RW 4

Benzene		29.8	1.0	0.31	ug/l	SW846 8260D
Xylene (total)		1.1 J	3.0	0.72	ug/l	SW846 8260D
3,3-Dimethyl-1-Butanol		18.4 JB	50	10	ug/l	SW846 8260D
Tert-Amyl Alcohol		19.9 J	20	5.3	ug/l	SW846 8260D

FC9805-47 01589-RW 5

Benzene		1170	20	6.2	ug/l	SW846 8260D
Toluene		1700	200	60	ug/l	SW846 8260D
Ethylbenzene		549	20	7.1	ug/l	SW846 8260D
Xylene (total)		2770	60	14	ug/l	SW846 8260D
Methyl Tert Butyl Ether		552	20	4.6	ug/l	SW846 8260D
Naphthalene		80.7 J	100	20	ug/l	SW846 8260D
Tert-Amyl Alcohol		13500	400	110	ug/l	SW846 8260D
Tert-Amyl Methyl Ether		40.0	40	4.9	ug/l	SW846 8260D

FC9805-48 01589-RW 6

Benzene		550	20	6.2	ug/l	SW846 8260D
Toluene		1110	20	6.0	ug/l	SW846 8260D
Ethylbenzene		182	20	7.1	ug/l	SW846 8260D
Xylene (total)		2190	60	14	ug/l	SW846 8260D
Methyl Tert Butyl Ether		108	20	4.6	ug/l	SW846 8260D
Naphthalene		67.8 J	100	20	ug/l	SW846 8260D
Tert-Amyl Alcohol		3040	400	110	ug/l	SW846 8260D
Tert-Amyl Methyl Ether		18.4 J	40	4.9	ug/l	SW846 8260D

FC9805-49 01589-RW 7

Benzene		2810	100	31	ug/l	SW846 8260D
Toluene		7810	100	30	ug/l	SW846 8260D
Ethylbenzene		853	100	36	ug/l	SW846 8260D
Xylene (total)		6620	300	72	ug/l	SW846 8260D
Methyl Tert Butyl Ether		468	100	23	ug/l	SW846 8260D
Naphthalene		111 J	500	100	ug/l	SW846 8260D
Tert-Amyl Alcohol		24000	2000	530	ug/l	SW846 8260D
Tert-Amyl Methyl Ether		35.3 J	200	24	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-50 01589-RW 8

Benzene ^e	88.4	5.0	1.6	ug/l	SW846 8260D
Toluene ^e	117	5.0	1.5	ug/l	SW846 8260D
Ethylbenzene ^e	43.9	5.0	1.8	ug/l	SW846 8260D
Xylene (total) ^e	410	15	3.6	ug/l	SW846 8260D
Naphthalene ^e	29.7	25	5.0	ug/l	SW846 8260D
Ethyl Tert Butyl Ether ^e	17.3	10	1.2	ug/l	SW846 8260D
Tert-Amyl Alcohol ^e	1020	100	26	ug/l	SW846 8260D
Tert-Amyl Methyl Ether ^e	4.7 J	10	1.2	ug/l	SW846 8260D
Tert-Butyl Alcohol ^e	85.6 J	100	27	ug/l	SW846 8260D

FC9805-51 01589-RW 9

Benzene	567	20	6.2	ug/l	SW846 8260D
Toluene	1580	20	6.0	ug/l	SW846 8260D
Ethylbenzene	192	20	7.1	ug/l	SW846 8260D
Xylene (total)	1300	60	14	ug/l	SW846 8260D
Methyl Tert Butyl Ether	395	20	4.6	ug/l	SW846 8260D
Naphthalene	40.1 J	100	20	ug/l	SW846 8260D
Ethyl Alcohol	2440 J	4000	1600	ug/l	SW846 8260D
Tert-Amyl Alcohol	7200	400	110	ug/l	SW846 8260D
Tert-Amyl Methyl Ether	13.1 J	40	4.9	ug/l	SW846 8260D

FC9805-52 01589-RW 10

Benzene	436	20	6.2	ug/l	SW846 8260D
Toluene	1610	20	6.0	ug/l	SW846 8260D
Ethylbenzene	294	20	7.1	ug/l	SW846 8260D
Xylene (total)	1270	60	14	ug/l	SW846 8260D
Naphthalene	29.0 J	100	20	ug/l	SW846 8260D
Tert-Amyl Alcohol	787	400	110	ug/l	SW846 8260D

FC9805-53 01589-RW 12

Benzene	659	100	31	ug/l	SW846 8260D
Toluene	6900	100	30	ug/l	SW846 8260D
Ethylbenzene	1050	100	36	ug/l	SW846 8260D
Xylene (total)	9410	300	72	ug/l	SW846 8260D
Naphthalene	104 J	500	100	ug/l	SW846 8260D
Ethyl Alcohol ^f	112000	100000	41000	ug/l	SW846 8260D
Tert-Amyl Alcohol	800 J	2000	530	ug/l	SW846 8260D

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-54 01589-DUP 1

Benzene ^c	54.4	20	6.2	ug/l	SW846 8260D
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FC9805-55 01589-DUP 2

Benzene	28.7	10	3.1	ug/l	SW846 8260D
Toluene ^e	0.97 J	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene ^e	4.0	1.0	0.36	ug/l	SW846 8260D
Xylene (total) ^e	4.3	3.0	0.72	ug/l	SW846 8260D
Methyl Tert Butyl Ether ^e	7.1	1.0	0.23	ug/l	SW846 8260D
Naphthalene ^e	1.2 J	5.0	1.0	ug/l	SW846 8260D
Di-Isopropyl Ether ^e	0.64 J	1.0	0.24	ug/l	SW846 8260D
Ethyl Tert Butyl Ether ^e	23.3	2.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol ^e	126	20	5.3	ug/l	SW846 8260D
Tert-Amyl Methyl Ether ^e	2.9	2.0	0.24	ug/l	SW846 8260D
Tert-Butyl Alcohol ^e	24.9	20	5.3	ug/l	SW846 8260D

FC9805-56 01589-DUP 3

Benzene	3.2	1.0	0.31	ug/l	SW846 8260D
Toluene	5.7	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene	20.2	1.0	0.36	ug/l	SW846 8260D
Xylene (total)	9.9	3.0	0.72	ug/l	SW846 8260D
Naphthalene	2.0 J	5.0	1.0	ug/l	SW846 8260D
Tert-Amyl Alcohol	84.1	20	5.3	ug/l	SW846 8260D

FC9805-57 01589-SW 1

No hits reported in this sample.

FC9805-58 01589-SW 2

No hits reported in this sample.

FC9805-59 01589-SW 3

No hits reported in this sample.

FC9805-60 01589-SW 4

No hits reported in this sample.

Summary of Hits

Job Number: FC9805
Account: ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC
Collected: 09/19/23 thru 09/20/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FC9805-61 **01589-SW 5**

No hits reported in this sample.

FC9805-62 **01589-SW 6**

No hits reported in this sample.

FC9805-63 **01589-SW 7**

No hits reported in this sample.

FC9805-64 **01589-SW 8**

No hits reported in this sample.

FC9805-65 **01589-SW 9**

Naphthalene	5.2 J	25	5.0	ug/l	SW846 8260D
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FC9805-66 **01589-FB 1**

Toluene	0.40 J	1.0	0.30	ug/l	SW846 8260D
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FC9805-67 **01589-FB 2**

Toluene	0.36 J	1.0	0.30	ug/l	SW846 8260D
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FC9805-68 **01589-TRIP BLANK 1**

No hits reported in this sample.

FC9805-69 **01589-TRIP BLANK 2**

No hits reported in this sample.

- (a) Dilution required due to matrix interference (non-target compounds above calibration range). Sample was not preserved to a pH < 2.
- (b) Sample was treated with an anti-foaming agent.
- (c) Dilution required due to matrix interference (non-target compounds above calibration range).
- (d) Sample was not preserved to a pH < 2.
- (e) Sample vial(s) contained significant headspace.
- (f) Results from different vials are not consistent; higher results were reported.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 01589-MW 1	Date Sampled: 09/20/23
Lab Sample ID: FC9805-1	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49484.D	100	09/25/23 15:18	JW	n/a	n/a	V1A1933
Run #2	2O78980.D	500	09/26/23 11:33	JW	n/a	n/a	V2O3086

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7400	100	31	ug/l	
108-88-3	Toluene	19100 ^a	500	150	ug/l	
100-41-4	Ethylbenzene	1070	100	36	ug/l	
1330-20-7	Xylene (total)	5080	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	294	100	23	ug/l	
91-20-3	Naphthalene	ND	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	232	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	5130	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	965	2000	530	ug/l	J
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	83%	100%	79-125%
2037-26-5	Toluene-D8	93%	103%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 2	Date Sampled: 09/20/23
Lab Sample ID: FC9805-2	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49485.D	50	09/25/23 15:43	JW	n/a	n/a	V1A1933
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2460	50	16	ug/l	
108-88-3	Toluene	2470	50	15	ug/l	
100-41-4	Ethylbenzene	200	50	18	ug/l	
1330-20-7	Xylene (total)	1100	150	36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	ND	250	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	16	ug/l	
108-20-3	Di-Isopropyl Ether	ND	50	12	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	500	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	4100	ug/l	
637-92-3	Ethyl Tert Butyl Ether	23.0	100	12	ug/l	J
75-85-4	Tert-Amyl Alcohol	1530	1000	260	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	12	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	1000	270	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID:	01589-MW 3	Date Sampled:	09/20/23
Lab Sample ID:	FC9805-3	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2O78981.D	5	09/26/23 11:58	JW	n/a	n/a	V2O3086
Run #2 ^a	1A49477.D	1	09/25/23 12:28	JW	n/a	n/a	V1A1933

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	49.2	5.0	1.6	ug/l	
108-88-3	Toluene	4.3	5.0	1.5	ug/l	J
100-41-4	Ethylbenzene	3.0	5.0	1.8	ug/l	J
1330-20-7	Xylene (total)	7.1	15	3.6	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	50	ug/l	
64-17-5	Ethyl Alcohol	ND	1000	410	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	10	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	41.6	100	26	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	10	1.2	ug/l	
75-65-0	Tert-Butyl Alcohol ^b	ND	100	27	ug/l	
762-75-4	Tert-Butyl Formate ^c	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	84%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	73% ^d	79-125%
2037-26-5	Toluene-D8	104%	101%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Dilute due to high non-target. Confirmation run for surrogate recoveries.

(b) Associated CCV outside control limits low.

(c) Associated ICV outside control limits high, however sample ND.

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 4	Date Sampled: 09/20/23
Lab Sample ID: FC9805-4	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49471.D	1	09/25/23 10:01	JW	n/a	n/a	V1A1933
Run #2							

Run #1	Run #2	Purge Volume
Run #1	Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: 01589-MW 5		Date Sampled: 09/20/23
Lab Sample ID: FC9805-5		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49472.D	1	09/25/23 10:26	JW	n/a	n/a	V1A1933
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 6		Date Sampled: 09/20/23
Lab Sample ID: FC9805-6		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2O78982.D	50	09/26/23 12:24	JW	n/a	n/a	V2O3086
Run #2	1A49486.D	200	09/25/23 16:07	JW	n/a	n/a	V1A1933

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1830	50	16	ug/l	
108-88-3	Toluene	4070	50	15	ug/l	
100-41-4	Ethylbenzene	337	50	18	ug/l	
1330-20-7	Xylene (total)	4130	150	36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	459	50	11	ug/l	
91-20-3	Naphthalene	189	250	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	50	16	ug/l	
108-20-3	Di-Isopropyl Ether	ND	50	12	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	500	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	4100	ug/l	
637-92-3	Ethyl Tert Butyl Ether	185	100	12	ug/l	
75-85-4	Tert-Amyl Alcohol	11700	1000	260	ug/l	
994-05-8	Tert-Amyl Methyl Ether	29.1	100	12	ug/l	J
75-65-0	Tert-Butyl Alcohol	1500 ^a	4000	1100	ug/l	J
762-75-4	Tert-Butyl Formate ^b	ND	1000	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	85%	79-125%
2037-26-5	Toluene-D8	103%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	83-118%

(a) Result is from Run# 2

(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 7		Date Sampled: 09/20/23
Lab Sample ID: FC9805-7		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2O79062.D	1	09/28/23 11:56	JW	n/a	n/a	V2O3089
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.1	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.39	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	22.8	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol ^a	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated CCV outside control limits low.

(b) Associated ICV outside control limits high, however sample ND. Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: 01589-MW 9	Date Sampled: 09/20/23
Lab Sample ID: FC9805-9	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49473.D	1	09/25/23 10:50	JW	n/a	n/a	V1A1933
Run #2							

Run #1	Run #2	Purge Volume
Run #1	Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: 01589-MW 10		Date Sampled: 09/20/23
Lab Sample ID: FC9805-10		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49474.D	1	09/25/23 11:15	JW	n/a	n/a	V1A1933
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID:	01589-MW 11	Date Sampled:	09/20/23
Lab Sample ID:	FC9805-11	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49475.D	1	09/25/23 11:39	JW	n/a	n/a	V1A1933
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 12		Date Sampled: 09/20/23
Lab Sample ID: FC9805-12		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49489.D	10	09/25/23 17:20	JW	n/a	n/a	V1A1933
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	71.7	10	3.1	ug/l	
108-88-3	Toluene	6.6	10	3.0	ug/l	J
100-41-4	Ethylbenzene	7.9	10	3.6	ug/l	J
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	ND	50	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	ND	10	2.4	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	6.6	20	2.4	ug/l	J
75-85-4	Tert-Amyl Alcohol	260	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	200	53	ug/l	
762-75-4	Tert-Butyl Formate	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		83-118%
17060-07-0	1,2-Dichloroethane-D4	82%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range). Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.12
4

Report of Analysis

Client Sample ID: 01589-MW 13	Date Sampled: 09/19/23
Lab Sample ID: FC9805-13	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49478.D	1	09/25/23 12:52	JW	n/a	n/a	V1A1933
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.0	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.50	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	1.4	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	83%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13
 4

Report of Analysis

Client Sample ID: 01589-MW 14		Date Sampled: 09/19/23
Lab Sample ID: FC9805-14		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49483.D	10	09/25/23 14:54	JW	n/a	n/a	V1A1933
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	3.1	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	ND	50	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	ND	10	2.4	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	200	53	ug/l	
762-75-4	Tert-Butyl Formate	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: 01589-MW 15		
Lab Sample ID: FC9805-15		Date Sampled: 09/19/23
Matrix: AQ - Ground Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2078983.D	25	09/26/23 12:49	JW	n/a	n/a	V2O3086
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	618	25	7.8	ug/l	
108-88-3	Toluene	1520	25	7.5	ug/l	
100-41-4	Ethylbenzene	192	25	8.9	ug/l	
1330-20-7	Xylene (total)	894	75	18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	5.7	ug/l	
91-20-3	Naphthalene	ND	130	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	7.8	ug/l	
108-20-3	Di-Isopropyl Ether	ND	25	6.0	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1300	250	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	2000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	10.0	50	5.9	ug/l	J
75-85-4	Tert-Amyl Alcohol	212	500	130	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	50	6.1	ug/l	
75-65-0	Tert-Butyl Alcohol ^a	ND	500	130	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	500	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

- (a) Associated CCV outside control limits low.
- (b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15
4

Report of Analysis

Client Sample ID: 01589-MW 17	Date Sampled: 09/19/23
Lab Sample ID: FC9805-17	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49480.D	1	09/25/23 13:41	JW	n/a	n/a	V1A1933
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	81%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17
4

Report of Analysis

Client Sample ID: 01589-MW 18		Date Sampled: 09/19/23
Lab Sample ID: FC9805-18		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49481.D	1	09/25/23 14:05	JW	n/a	n/a	V1A1933
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	84%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.18
4

Report of Analysis

Client Sample ID: 01589-MW 21		Date Sampled: 09/19/23
Lab Sample ID: FC9805-21		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759178.D	1	09/25/23 15:03	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21
4

Report of Analysis

Client Sample ID: 01589-MW 22	Date Sampled: 09/19/23
Lab Sample ID: FC9805-22	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759179.D	1	09/25/23 15:26	JW	n/a	n/a	VI3025
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: 01589-MW 23		Date Sampled: 09/19/23
Lab Sample ID: FC9805-23		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759180.D	1	09/25/23 15:50	JW	n/a	n/a	VI3025
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.23
4

Report of Analysis

Client Sample ID: 01589-MW 24		Date Sampled: 09/19/23
Lab Sample ID: FC9805-24		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759181.D	1	09/25/23 16:14	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.24
4

Report of Analysis

Client Sample ID: 01589-MW 25	Date Sampled: 09/19/23
Lab Sample ID: FC9805-25	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759182.D	1	09/25/23 16:38	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13.2	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: 01589-MW 26R	Date Sampled: 09/19/23
Lab Sample ID: FC9805-26	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759183.D	1	09/25/23 17:01	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.9	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	1.1	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	5.3	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	121	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	1.2	2.0	0.24	ug/l	J
75-65-0	Tert-Butyl Alcohol	14.7	20	5.3	ug/l	J
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.26
4

Report of Analysis

Client Sample ID: 01589-MW 27		Date Sampled: 09/19/23
Lab Sample ID: FC9805-27		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759184.D	1	09/25/23 17:25	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.27
4

Report of Analysis

Client Sample ID: 01589-MW 28		Date Sampled: 09/19/23
Lab Sample ID: FC9805-28		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I759185.D	1	09/25/23 17:49	JW	n/a	n/a	VI3025
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID: 01589-MW 29R		Date Sampled: 09/19/23
Lab Sample ID: FC9805-29		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49561.D	10	09/27/23 15:15	JW	n/a	n/a	V1A1936
Run #2 ^a	N0126451.D	25	09/25/23 12:36	JL	n/a	n/a	VN6497

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	3.1	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	164	10	2.3	ug/l	
91-20-3	Naphthalene	ND	50	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	2.8	10	2.4	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	36.4	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	6450	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	20.6	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	835	200	53	ug/l	
762-75-4	Tert-Butyl Formate	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	83%	99%	79-125%
2037-26-5	Toluene-D8	93%	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	102%	83-118%

(a) Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.29
4

Report of Analysis

Client Sample ID: 01589-MW 30	Date Sampled: 09/19/23
Lab Sample ID: FC9805-30	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49578.D	1	09/28/23 09:27	JW	n/a	n/a	V1A1937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	89%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample vial(s) contained significant headspace.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-MW 31	Date Sampled: 09/19/23
Lab Sample ID: FC9805-31	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126453.D	1	09/25/23 13:26	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.31
4

Report of Analysis

Client Sample ID: 01589-MW 34	Date Sampled: 09/19/23
Lab Sample ID: FC9805-33	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126455.D	1	09/25/23 14:16	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.33
4

Report of Analysis

Client Sample ID: 01589-MW 35		Date Sampled: 09/19/23
Lab Sample ID: FC9805-34		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126456.D	1	09/25/23 14:40	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: 01589-MW 36		Date Sampled: 09/19/23
Lab Sample ID: FC9805-35		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49564.D	1	09/27/23 16:28	JW	n/a	n/a	V1A1936
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.2	1.0	0.31	ug/l	
108-88-3	Toluene	5.2	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	15.3	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	8.3	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	1.9	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	98.8	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	7.1	20	5.3	ug/l	J
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.35
4

Report of Analysis

Client Sample ID: 01589-MW 37R	Date Sampled: 09/19/23
Lab Sample ID: FC9805-36	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126458.D	1	09/25/23 15:29	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.3	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	0.37	2.0	0.24	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.36
4

Report of Analysis

Client Sample ID: 01589-MW 38R		Date Sampled: 09/19/23
Lab Sample ID: FC9805-37		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49565.D	5	09/27/23 16:52	JW	n/a	n/a	V1A1936
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	122	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
108-20-3	Di-Isopropyl Ether	2.2	5.0	1.2	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	50	ug/l	
64-17-5	Ethyl Alcohol	ND	1000	410	ug/l	
637-92-3	Ethyl Tert Butyl Ether	30.1	10	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	2710	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	17.8	10	1.2	ug/l	
75-65-0	Tert-Butyl Alcohol	618	100	27	ug/l	
762-75-4	Tert-Butyl Formate	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	83%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: 01589-DMW 1	Date Sampled: 09/20/23
Lab Sample ID: FC9805-38	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126460.D	1	09/25/23 16:19	JL	n/a	n/a	VN6497
Run #2							

Run #1	Run #2	Purge Volume
Run #1	Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.65	1.0	0.31	ug/l	J
108-88-3	Toluene	2.6	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.72	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	3.0	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	2.3	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.38
4

Report of Analysis

Client Sample ID: 01589-DMW 2	Date Sampled: 09/19/23
Lab Sample ID: FC9805-39	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126461.D	1	09/25/23 16:43	JL	n/a	n/a	VN6497
Run #2							

Run #1	Run #2	Purge Volume
Run #1	Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.39
4

Report of Analysis

Client Sample ID: 01589-DMW 3	Date Sampled: 09/19/23
Lab Sample ID: FC9805-40	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	N0126462.D	1	09/25/23 17:08	JL	n/a	n/a	VN6497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	0.32	1.0	0.24	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	17.5	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	2.0	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: 01589-DMW 4		Date Sampled: 09/19/23
Lab Sample ID: FC9805-41		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126463.D	1	09/25/23 17:33	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.41
4

Report of Analysis

Client Sample ID: 01589-DMW 5	Date Sampled: 09/19/23
Lab Sample ID: FC9805-42	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126464.D	1	09/25/23 17:57	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.42
4

Report of Analysis

Client Sample ID: 01589-RW 1	Date Sampled: 09/20/23
Lab Sample ID: FC9805-43	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126465.D	500	09/25/23 18:22	JL	n/a	n/a	VN6497
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7990	500	160	ug/l	
108-88-3	Toluene	22200	500	150	ug/l	
100-41-4	Ethylbenzene	1630	500	180	ug/l	
1330-20-7	Xylene (total)	9270	1500	360	ug/l	
1634-04-4	Methyl Tert Butyl Ether	268	500	110	ug/l	J
91-20-3	Naphthalene	ND	2500	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	120	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	ND	100000	41000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	120	ug/l	
75-85-4	Tert-Amyl Alcohol	3860	10000	2600	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	1000	120	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	2700	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.43
4

Report of Analysis

Client Sample ID: 01589-RW 2		Date Sampled: 09/20/23
Lab Sample ID: FC9805-44		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126466.D	500	09/25/23 18:47	JL	n/a	n/a	VN6497
Run #2	1A49566.D	50000	09/27/23 17:17	JW	n/a	n/a	V1A1936

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6950	500	160	ug/l	
108-88-3	Toluene	17400	500	150	ug/l	
100-41-4	Ethylbenzene	1410	500	180	ug/l	
1330-20-7	Xylene (total)	6300	1500	360	ug/l	
1634-04-4	Methyl Tert Butyl Ether	989	500	110	ug/l	
91-20-3	Naphthalene	ND	2500	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	120	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	68800000 ^a	100000004	100000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	120	ug/l	
75-85-4	Tert-Amyl Alcohol	26300	10000	2600	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	120	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	2700	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	84%	79-125%
2037-26-5	Toluene-D8	100%	91%	85-112%
460-00-4	4-Bromofluorobenzene	100%	96%	83-118%

(a) Result is from Run# 2

(b) Associated ICV and BS recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.44
4

Report of Analysis

Client Sample ID: 01589-RW 3		Date Sampled: 09/20/23
Lab Sample ID: FC9805-45		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126546.D	10	09/27/23 16:23	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	662	10	3.1	ug/l	
108-88-3	Toluene	406	10	3.0	ug/l	
100-41-4	Ethylbenzene	199	10	3.6	ug/l	
1330-20-7	Xylene (total)	751	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	42.5	50	10	ug/l	J
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	ND	10	2.4	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	517	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	7.5	20	2.4	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	200	53	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.45
4

Report of Analysis

Client Sample ID: 01589-RW 4	Date Sampled: 09/20/23
Lab Sample ID: FC9805-46	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126536.D	1	09/27/23 12:16	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	29.8	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	1.1	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	18.4	50	10	ug/l	JB
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	19.9	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: 01589-RW 5	Date Sampled: 09/20/23
Lab Sample ID: FC9805-47	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126547.D	20	09/27/23 16:47	JL	n/a	n/a	VN6500
Run #2	2O78987.D	200	09/26/23 14:31	JW	n/a	n/a	V2O3086

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1170	20	6.2	ug/l	
108-88-3	Toluene	1700 ^a	200	60	ug/l	
100-41-4	Ethylbenzene	549	20	7.1	ug/l	
1330-20-7	Xylene (total)	2770	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	552	20	4.6	ug/l	
91-20-3	Naphthalene	80.7	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.7	ug/l	
75-85-4	Tert-Amyl Alcohol	13500	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	40.0	40	4.9	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	100%	79-125%
2037-26-5	Toluene-D8	102%	104%	85-112%
460-00-4	4-Bromofluorobenzene	101%	98%	83-118%

(a) Result is from Run# 2

(b) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.47
4

Report of Analysis

Client Sample ID: 01589-RW 6		Date Sampled: 09/20/23
Lab Sample ID: FC9805-48		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126548.D	20	09/27/23 17:12	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	550	20	6.2	ug/l	
108-88-3	Toluene	1110	20	6.0	ug/l	
100-41-4	Ethylbenzene	182	20	7.1	ug/l	
1330-20-7	Xylene (total)	2190	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	108	20	4.6	ug/l	
91-20-3	Naphthalene	67.8	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.7	ug/l	
75-85-4	Tert-Amyl Alcohol	3040	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	18.4	40	4.9	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.48
4

Report of Analysis

Client Sample ID: 01589-RW 7	Date Sampled: 09/20/23
Lab Sample ID: FC9805-49	Date Received: 09/22/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126549.D	100	09/27/23 17:37	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2810	100	31	ug/l	
108-88-3	Toluene	7810	100	30	ug/l	
100-41-4	Ethylbenzene	853	100	36	ug/l	
1330-20-7	Xylene (total)	6620	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	468	100	23	ug/l	
91-20-3	Naphthalene	111	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	24000	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	35.3	200	24	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: 01589-RW 8		Date Sampled: 09/20/23
Lab Sample ID: FC9805-50		Date Received: 09/22/23
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49579.D	5	09/28/23 09:51	JW	n/a	n/a	V1A1937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	88.4	5.0	1.6	ug/l	
108-88-3	Toluene	117	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	43.9	5.0	1.8	ug/l	
1330-20-7	Xylene (total)	410	15	3.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	29.7	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	50	ug/l	
64-17-5	Ethyl Alcohol	ND	1000	410	ug/l	
637-92-3	Ethyl Tert Butyl Ether	17.3	10	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	1020	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	4.7	10	1.2	ug/l	J
75-65-0	Tert-Butyl Alcohol	85.6	100	27	ug/l	J
762-75-4	Tert-Butyl Formate	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	83%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample vial(s) contained significant headspace.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.50
4

Report of Analysis

Client Sample ID: 01589-RW 10		
Lab Sample ID: FC9805-52		Date Sampled: 09/20/23
Matrix: AQ - Ground Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126551.D	20	09/27/23 18:26	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	436	20	6.2	ug/l	
108-88-3	Toluene	1610	20	6.0	ug/l	
100-41-4	Ethylbenzene	294	20	7.1	ug/l	
1330-20-7	Xylene (total)	1270	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.6	ug/l	
91-20-3	Naphthalene	29.0	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.7	ug/l	
75-85-4	Tert-Amyl Alcohol	787	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	4.9	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.52
4

Report of Analysis

Client Sample ID: 01589-DUP 1		
Lab Sample ID: FC9805-54		Date Sampled: 09/20/23
Matrix: AQ - Ground Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2O78990.D	20	09/26/23 15:48	JW	n/a	n/a	V2O3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	54.4	20	6.2	ug/l	
108-88-3	Toluene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	7.1	ug/l	
1330-20-7	Xylene (total)	ND	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.6	ug/l	
91-20-3	Naphthalene	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.7	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	4.9	ug/l	
75-65-0	Tert-Butyl Alcohol ^b	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate ^c	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

(b) Associated CCV outside control limits low.

(c) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-DUP 3		
Lab Sample ID: FC9805-56		Date Sampled: 09/20/23
Matrix: AQ - Ground Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0126538.D	1	09/27/23 13:05	JL	n/a	n/a	VN6500
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.2	1.0	0.31	ug/l	
108-88-3	Toluene	5.7	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	20.2	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	9.9	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	2.0	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	84.1	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^a	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.56
4

Report of Analysis

Client Sample ID: 01589-SW 1	Date Sampled: 09/19/23
Lab Sample ID: FC9805-57	Date Received: 09/22/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	N0126539.D	1	09/27/23 13:30	JL	n/a	n/a	VN6500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

- (a) Sample was treated with an anti-foaming agent.
- (b) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.57
4

Report of Analysis

Client Sample ID: 01589-SW 2	Date Sampled: 09/19/23
Lab Sample ID: FC9805-58	Date Received: 09/22/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	N0126540.D	1	09/27/23 13:55	JL	n/a	n/a	VN6500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

- (a) Sample was treated with an anti-foaming agent.
- (b) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.58
4

Report of Analysis

Client Sample ID: 01589-SW 3	Date Sampled: 09/19/23
Lab Sample ID: FC9805-59	Date Received: 09/22/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	N0126541.D	1	09/27/23 14:19	JL	n/a	n/a	VN6500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate ^b	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Sample was treated with an anti-foaming agent.

(b) Associated ICV and BS outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.59
4

Report of Analysis

Client Sample ID: 01589-SW 4	Date Sampled: 09/19/23
Lab Sample ID: FC9805-60	Date Received: 09/22/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49533.D	1	09/26/23 15:25	JW	n/a	n/a	V1A1935
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.60
4

Report of Analysis

Client Sample ID: 01589-SW 5		Date Sampled: 09/19/23
Lab Sample ID: FC9805-61		Date Received: 09/22/23
Matrix: AQ - Surface Water		Percent Solids: n/a
Method: SW846 8260D		
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49534.D	1	09/26/23 15:50	JW	n/a	n/a	V1A1935
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.61
4

Report of Analysis

Client Sample ID: 01589-SW 6	Date Sampled: 09/19/23
Lab Sample ID: FC9805-62	Date Received: 09/22/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49535.D	1	09/26/23 16:14	JW	n/a	n/a	V1A1935
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.62
4

Report of Analysis

Client Sample ID: 01589-SW 7		
Lab Sample ID: FC9805-63		Date Sampled: 09/20/23
Matrix: AQ - Surface Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A49536.D	1	09/26/23 16:38	JW	n/a	n/a	V1A1935
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.63
4

Report of Analysis

Client Sample ID:	01589-SW 8	Date Sampled:	09/20/23
Lab Sample ID:	FC9805-64	Date Received:	09/22/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	N0126554.D	5	09/27/23 19:40	JL	n/a	n/a	VN6500
Run #2 ^b	1A49537.D	1	09/26/23 17:03	JW	n/a	n/a	V1A1935

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	50	ug/l	
64-17-5	Ethyl Alcohol	ND	1000	410	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	10	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	10	1.2	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	100	27	ug/l	
762-75-4	Tert-Butyl Formate ^c	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	86%	83-118%
17060-07-0	1,2-Dichloroethane-D4	88%	77% ^d	79-125%
2037-26-5	Toluene-D8	102%	93%	85-112%
460-00-4	4-Bromofluorobenzene	106%	98%	83-118%

(a) Sample was treated with an anti-foaming agent.

(b) Confirmation run for surrogate recoveries. Dilution required due to matrix interference (non-target compounds above calibration range).

(c) Associated ICV and BS outside control limits high, sample is ND.

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 01589-SW 9		
Lab Sample ID: FC9805-65		Date Sampled: 09/20/23
Matrix: AQ - Surface Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49538.D	5	09/26/23 17:27	JW	n/a	n/a	V1A1935
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	5.2	25	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	50	ug/l	
64-17-5	Ethyl Alcohol	ND	1000	410	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	10	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	10	1.2	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	100	27	ug/l	
762-75-4	Tert-Butyl Formate	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	84%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.65
4

Report of Analysis

Client Sample ID: 01589-FB 2		
Lab Sample ID: FC9805-67		Date Sampled: 09/20/23
Matrix: AQ - Field Blank Water		Date Received: 09/22/23
Method: SW846 8260D		Percent Solids: n/a
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49525.D	1	09/26/23 12:10	JW	n/a	n/a	V1A1935
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	0.36	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.67
 4

Report of Analysis

Client Sample ID: 01589-TRIP BLANK 1	Date Sampled: 09/19/23
Lab Sample ID: FC9805-68	Date Received: 09/22/23
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260D	
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A49526.D	1	09/26/23 12:34	JW	n/a	n/a	V1A1935
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.68
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260D	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260D	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260D	AQ	Certified by SOP MS005

5.1
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Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO Quote # SKIFF #

Client / Reporting Information			Project Information										Analytical Information										Matrix Codes
Company Name: <u>Atlas</u>			Project Name: <u>Circle K 2220804</u>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid										
Address: <u>6904 N. Main St. Ste 101</u>			Street: <u>4315 Sawmuck Hwy</u>																				
City: <u>Columbia</u> State: <u>SC</u> Zip: <u>29203</u>			City: <u>Randall</u> State: <u>SC</u>																				
Project Contact: <u>Brad Hubbard</u> Email:			Project #: <u>257CK88613</u>																				
Phone #: <u>803-735-0003</u>			Fax #																				
Sampler(s) Name(s) (Printed) Sampler 1: <u>J. GAN</u> Sampler 2: <u>C. MARTIN / Y. MIYAZAKI</u>			Client Purchase Order #																				
SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	ICI	HIGH	HNO3	H2SO4	MACHONAL	DI WATER	HIGH	LAB USE ONLY							
																	COLLECTION	CONTAINER INFORMATION					
25	01589 - MW 26	9/14	1403	YM	GW	3			X														
26	MW 26R	9/19	1150	YM	GW																		
27	MW 27	9/19	1237	YM																			
28	MW 28	9/19	1355	CM																			
29	MW 29R	9/19	1053	YM																			
30	MW 30	9/19	0803	YM																			
31	MW 31	9/19	1438	CM																			
32	MW 32	9/20	1245	CM																			
33	MW 34	9/19	1401	JE																			
34	MW 35	9/19	1419	JE																			
35	MW 36	9/20	1023	CM																			
36	MW 37R	9/19	1238	CM																			
Turnaround Time (Business days)										Data Deliverable Information										Comments / Remarks			
<input checked="" type="checkbox"/> 10 Day (Business) <input type="checkbox"/> 7 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> Other			Approved By: / Date:			<input checked="" type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULLT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S																	
Rush T/A Data Available VIA Email or Lablink																							
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation		Date Time:		Relinquished By/Affiliation		Date Time:		Received By/Affiliation		Date Time:		Received By/Affiliation							
1 <u>James Ray / Atlas</u>		9/14 1749		Fx				3 Fx				4 <u>[Signature]</u>		09/22/23		915							
5				6				7				8											

Lab Use Only : Cooler Temperature (s) Celsius (corrected): ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318 http://www.sgs.com/en/terms-and-conditions

5.2
5





SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
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FC9805

SGS - ORLANDO JOB # :

PAGE 6 OF 6

SGS - ORLANDO Quote # SKIFF #

Client / Reporting Information		Project Information										Analytical Information										Matrix Codes										
Company Name: <i>Affes</i>		Project Name: <i>Circle K 2720886</i>										<i>866676111/MS-112012-804</i> <i>Try blank</i>										DW - Drinking Water										
Address: <i>6904 North Main St. St. 107</i>		Street: <i>4315 Savannah Hwy</i>																				GW - Ground Water										
City: <i>Columbia</i> State: <i>SC</i> Zip: <i>29203</i>		City: <i>Request</i> State: <i>SC</i>										WW - Water																				
Project Contact: <i>Brad Hubbard</i> Email:		Project #: <i>257CK886-13</i>										SW - Surface Water																				
Phone #: <i>803-735-0003</i>		Fax #										SO - Soil																				
Sampler(s) Name(s) (Printed)		Client Purchase Order #										SL - Sludge																				
Sampler 1:		Sampler 2:		COLLECTION										OI - Oil																		
SGS Orlando Sample #		Field ID / Point of Collection		DATE		TIME		SAMPLED BY:		MATRIX		TOTAL # OF BOTTLES		OTHER		NONE		HCl		NaOH		HNO3		H2SO4		NaOH/NaNO2		DI WATER		MECH		LIQ - Other Liquid
61		<i>01589 - SW 5</i>		<i>9/14</i>		<i>1135</i>		<i>JK</i>		<i>SW</i>		<i>3</i>																		AIR - Air		
62		<i>SW 6</i>		<i>9/14</i>		<i>0928</i>		<i>CM</i>		<i> </i>		<i> </i>																		SOL - Other Solid		
63*		<i>SW 7</i>		<i>9/20</i>		<i>1435</i>		<i>YM</i>		<i> </i>		<i> </i>																				
64		<i>SW 8</i>		<i>9/20</i>		<i>1448</i>		<i>YM</i>		<i> </i>		<i> </i>																				
65		<i>SW 9</i>		<i>9/20</i>		<i>1502</i>		<i>YM</i>		<i>↓</i>		<i>↓</i>																				
66		<i>FB 1</i>		<i>9/19</i>		<i>1337</i>		<i>CM</i>		<i>GW</i>		<i> </i>																				
67		<i>FB 2</i>		<i>9/20</i>		<i>1428</i>		<i>CM</i>		<i>-</i>		<i>-</i>																				
68		<i>Trip Blank</i>								<i>2</i>		<i>2</i>																				
69		<i>Trip RIK 2</i>								<i>2</i>		<i>2</i>																				
		<i>Trip</i>								<i>1</i>		<i>1</i>																				
		<i>Trip</i>								<i>1</i>		<i>1</i>																				

Turnaround Time (Business days)		Data Deliverable Information										Comments / Remarks																																							
10 Day (Business)		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULLT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S																																																	
7 Day																						Approved By: / Date:																													
5 Day																																																			
3 Day RUSH																																																			
2 Day RUSH																																																			
1 Day RUSH																																																			
Other																																																			

Sample Custody must be documented below each time samples change possession, including courier delivery.							
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation		Date Time:	
1 <i>Brad Hubbard</i>		<i>9/20 1749</i>		2 <i>FX</i>		3 <i>FX</i>	
Relinquished by/Affiliation		Date Time:		Received By/Affiliation		Date Time:	
5				6		7	
Relinquished by/Affiliation		Date Time:		Received By/Affiliation		Date Time:	
8				9		<i>9/22/23</i>	

Lab Use Only : Cooler Temperature (s) Celsius (corrected): <http://www.sgs.com/en/terms-and-conditions>

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031316

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SGS Sample Receipt Summary

Job Number: fc9805

Client: ATLAS

Project: CIRCLE K 2720886

Date / Time Received: 9/22/2023 9:15:00 AM

Delivery Method: FED EX

Airbill #'s: 7913 9276 3875

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6); Cooler 2: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.4); Cooler 2: (3.4);

Cooler Information

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:
- 3. Temp criteria achieved:
- 4. Cooler temp verification: IR Gun
- 5. Cooler media: Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:

W or S N/A

- 3. Type of TB Received:

Sample Information

Y or N N/A

- 1. Sample labels present on bottles:
- 2. Samples presented properly:
- 3. Sufficient volume/containers recv'd for analysis:
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT:
- 6. Dates/Times/IDs on COC match sample label:
- 7. VOCs have headspace:
- 8. Bottles received for unspecified tests:
- 9. Compositing instructions clear:
- 10. Voa Soil Kits/Jars received past 48hrs?:
- 11. % Solids Jar Received?:
- 12. Residual Chlorine Present?:

Misc Information

Number of Encores: 25 Gram 5 Gram Number of Lab Filtered Metals:
 Test Strip Lot #s: pH 0-3: _____ pH 10-12: _____ Other: (Specify) _____
 Residual Chlorine Test Strip Lot # _____

Comments SAMPLE #13,30 AND 63 HAS (1) VIAL WITH HEADSPACE.

SM001

Rev. Date 05/04/17

Technician: SHAYLAP

Date: 9/22/2023 1:43:50 PM

Reviewer: _____

Date: _____

FC9805: Chain of Custody

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MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1933-MB ^a	1A49470.D	1	09/25/23	JW	n/a	n/a	V1A1933

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-2, FC9805-4, FC9805-5, FC9805-6, FC9805-9, FC9805-10, FC9805-11, FC9805-12, FC9805-13, FC9805-14, FC9805-17, FC9805-18, FC9805-19, FC9805-20

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	82% 79-125%
2037-26-5	Toluene-D8	92% 85-112%
460-00-4	4-Bromofluorobenzene	94% 83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3025-MB ^a	I759165.D	1	09/25/23	JW	n/a	n/a	VI3025

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC9805-21, FC9805-22, FC9805-23, FC9805-24, FC9805-25, FC9805-26, FC9805-27, FC9805-28

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 83-118%
17060-07-0	1,2-Dichloroethane-D4	90% 79-125%
2037-26-5	Toluene-D8	98% 85-112%
460-00-4	4-Bromofluorobenzene	98% 83-118%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.13	16	ug/l	JN
	Total TIC, Volatile		0	ug/l	

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN6497-MB	N0126450.D	1	09/25/23	JL	n/a	n/a	VN6497

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-31, FC9805-33, FC9805-34, FC9805-36, FC9805-38, FC9805-39, FC9805-40, FC9805-41, FC9805-42, FC9805-43, FC9805-44, FC9805-53

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	32.8	50	10	ug/l	J
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 83-118%
17060-07-0	1,2-Dichloroethane-D4	99% 79-125%
2037-26-5	Toluene-D8	100% 85-112%
460-00-4	4-Bromofluorobenzene	104% 83-118%

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1935-MB ^a	1A49518.D	1	09/26/23	JW	n/a	n/a	V1A1935

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-60, FC9805-61, FC9805-62, FC9805-63, FC9805-65, FC9805-66, FC9805-67, FC9805-68, FC9805-69

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	105% 83-118%
17060-07-0	1,2-Dichloroethane-D4	85% 79-125%
2037-26-5	Toluene-D8	91% 85-112%
460-00-4	4-Bromofluorobenzene	97% 83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3086-MB ^a	2O78975.D	1	09/26/23	JW	n/a	n/a	V2O3086

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-3, FC9805-6, FC9805-15, FC9805-16, FC9805-47, FC9805-54

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	2.0	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 83-118%
17060-07-0	1,2-Dichloroethane-D4	99% 79-125%
2037-26-5	Toluene-D8	103% 85-112%
460-00-4	4-Bromofluorobenzene	101% 83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1936-MB ^a	1A49547.D	1	09/27/23	JW	n/a	n/a	V1A1936

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-29, FC9805-32, FC9805-35, FC9805-37, FC9805-44

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	105% 83-118%
17060-07-0	1,2-Dichloroethane-D4	85% 79-125%
2037-26-5	Toluene-D8	90% 85-112%
460-00-4	4-Bromofluorobenzene	96% 83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN6500-MB ^a	N0126534.D	1	09/27/23	JL	n/a	n/a	VN6500

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-45, FC9805-46, FC9805-47, FC9805-48, FC9805-49, FC9805-51, FC9805-52, FC9805-53, FC9805-55, FC9805-56, FC9805-57, FC9805-58, FC9805-59, FC9805-64

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	23.7	50	10	ug/l	J
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 83-118%
17060-07-0	1,2-Dichloroethane-D4	95% 79-125%
2037-26-5	Toluene-D8	100% 85-112%
460-00-4	4-Bromofluorobenzene	106% 83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1937-MB	1A49576.D	1	09/28/23	JW	n/a	n/a	V1A1937

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-30, FC9805-50

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	105% 83-118%
17060-07-0	1,2-Dichloroethane-D4	83% 79-125%
2037-26-5	Toluene-D8	90% 85-112%
460-00-4	4-Bromofluorobenzene	97% 83-118%

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3089-MB ^a	2O79054.D	1	09/28/23	JW	n/a	n/a	V2O3089

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-7, FC9805-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 83-118%
17060-07-0	1,2-Dichloroethane-D4	103% 79-125%
2037-26-5	Toluene-D8	104% 85-112%
460-00-4	4-Bromofluorobenzene	102% 83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Sample was treated with an anti-foaming agent.

6.1.9
6

Method Blank Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3852-MB	2P101635.D	1	09/29/23	JL	n/a	n/a	V2P3852

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-55

CAS No.	Compound	Result	RL	MDL	Units	Q
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	94% 83-118%
17060-07-0	1,2-Dichloroethane-D4	105% 79-125%
2037-26-5	Toluene-D8	108% 85-112%
460-00-4	4-Bromofluorobenzene	105% 83-118%

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1933-BS	1A49468.D	1	09/25/23	JW	n/a	n/a	V1A1933

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-2, FC9805-4, FC9805-5, FC9805-6, FC9805-9, FC9805-10, FC9805-11, FC9805-12, FC9805-13, FC9805-14, FC9805-17, FC9805-18, FC9805-19, FC9805-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.6	102	81-122
107-06-2	1,2-Dichloroethane	25	22.7	91	75-125
108-20-3	Di-Isopropyl Ether	25	23.9	96	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1090	87	55-126
64-17-5	Ethyl Alcohol	500	554	111	46-145
100-41-4	Ethylbenzene	25	20.8	83	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.9	96	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.0	92	72-117
91-20-3	Naphthalene	25	24.8	99	63-132
75-85-4	Tert-Amyl Alcohol	250	239	96	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.5	94	73-122
75-65-0	Tert-Butyl Alcohol	250	223	89	63-129
762-75-4	Tert-Butyl Formate	125	154	123	46-130
108-88-3	Toluene	25	24.0	96	80-120
1330-20-7	Xylene (total)	75	64.6	86	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	82%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3025-BS	I759163.D	1	09/25/23	JW	n/a	n/a	VI3025

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-21, FC9805-22, FC9805-23, FC9805-24, FC9805-25, FC9805-26, FC9805-27, FC9805-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.0	100	81-122
107-06-2	1,2-Dichloroethane	25	25.3	101	75-125
108-20-3	Di-Isopropyl Ether	25	24.7	99	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1220	98	55-126
64-17-5	Ethyl Alcohol	500	482	96	46-145
100-41-4	Ethylbenzene	25	25.0	100	81-121
637-92-3	Ethyl Tert Butyl Ether	25	25.5	102	71-120
1634-04-4	Methyl Tert Butyl Ether	25	26.0	104	72-117
91-20-3	Naphthalene	25	25.4	102	63-132
75-85-4	Tert-Amyl Alcohol	250	221	88	65-124
994-05-8	Tert-Amyl Methyl Ether	25	25.7	103	73-122
75-65-0	Tert-Butyl Alcohol	250	221	88	63-129
762-75-4	Tert-Butyl Formate	125	162	130	46-130
108-88-3	Toluene	25	25.0	100	80-120
1330-20-7	Xylene (total)	75	75.0	100	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN6497-BS	N0126448.D	1	09/25/23	JL	n/a	n/a	VN6497

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-31, FC9805-33, FC9805-34, FC9805-36, FC9805-38, FC9805-39, FC9805-40, FC9805-41, FC9805-42, FC9805-43, FC9805-44, FC9805-53

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.0	100	81-122
107-06-2	1,2-Dichloroethane	25	24.4	98	75-125
108-20-3	Di-Isopropyl Ether	25	25.5	102	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1400	112	55-126
64-17-5	Ethyl Alcohol	500	384	77	46-145
100-41-4	Ethylbenzene	25	25.3	101	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.9	100	71-120
1634-04-4	Methyl Tert Butyl Ether	25	25.6	102	72-117
91-20-3	Naphthalene	25	24.0	96	63-132
75-85-4	Tert-Amyl Alcohol	250	261	104	65-124
994-05-8	Tert-Amyl Methyl Ether	25	25.5	102	73-122
75-65-0	Tert-Butyl Alcohol	250	254	102	63-129
762-75-4	Tert-Butyl Formate	125	167	134*	46-130
108-88-3	Toluene	25	24.8	99	80-120
1330-20-7	Xylene (total)	75	78.3	104	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3086-BS	2O78972.D	1	09/26/23	JW	n/a	n/a	V2O3086

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-3, FC9805-6, FC9805-15, FC9805-16, FC9805-47, FC9805-54

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.7	95	81-122
107-06-2	1,2-Dichloroethane	25	24.3	97	75-125
108-20-3	Di-Isopropyl Ether	25	22.0	88	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1130	90	55-126
64-17-5	Ethyl Alcohol	500	442	88	46-145
100-41-4	Ethylbenzene	25	24.7	99	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.8	95	71-120
1634-04-4	Methyl Tert Butyl Ether	25	24.0	96	72-117
91-20-3	Naphthalene	25	24.6	98	63-132
75-85-4	Tert-Amyl Alcohol	250	206	82	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.8	95	73-122
75-65-0	Tert-Butyl Alcohol	250	188	75	63-129
762-75-4	Tert-Butyl Formate	125	150	120	46-130
108-88-3	Toluene	25	24.8	99	80-120
1330-20-7	Xylene (total)	75	74.7	100	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1935-BS	1A49516.D	1	09/26/23	JW	n/a	n/a	V1A1935

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-60, FC9805-61, FC9805-62, FC9805-63, FC9805-65, FC9805-66, FC9805-67, FC9805-68, FC9805-69

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122
107-06-2	1,2-Dichloroethane	25	22.6	90	75-125
108-20-3	Di-Isopropyl Ether	25	23.4	94	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1090	87	55-126
64-17-5	Ethyl Alcohol	500	549	110	46-145
100-41-4	Ethylbenzene	25	20.4	82	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.1	96	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.1	92	72-117
91-20-3	Naphthalene	25	23.5	94	63-132
75-85-4	Tert-Amyl Alcohol	250	228	91	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.1	92	73-122
75-65-0	Tert-Butyl Alcohol	250	222	89	63-129
762-75-4	Tert-Butyl Formate	125	161	129	46-130
108-88-3	Toluene	25	23.5	94	80-120
1330-20-7	Xylene (total)	75	63.1	84	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	82%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1936-BS	1A49545.D	1	09/27/23	JW	n/a	n/a	V1A1936

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-29, FC9805-32, FC9805-35, FC9805-37, FC9805-44

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122
107-06-2	1,2-Dichloroethane	25	23.3	93	75-125
108-20-3	Di-Isopropyl Ether	25	24.1	96	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1060	85	55-126
64-17-5	Ethyl Alcohol	500	522	104	46-145
100-41-4	Ethylbenzene	25	20.3	81	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.2	97	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.6	94	72-117
91-20-3	Naphthalene	25	23.7	95	63-132
75-85-4	Tert-Amyl Alcohol	250	236	94	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.8	95	73-122
75-65-0	Tert-Butyl Alcohol	250	227	91	63-129
762-75-4	Tert-Butyl Formate	125	158	126	46-130
108-88-3	Toluene	25	23.1	92	80-120
1330-20-7	Xylene (total)	75	61.8	82	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	85%	79-125%
2037-26-5	Toluene-D8	92%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN6500-BS	N0126531.D	1	09/27/23	JL	n/a	n/a	VN6500

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-45, FC9805-46, FC9805-47, FC9805-48, FC9805-49, FC9805-51, FC9805-52, FC9805-53, FC9805-55, FC9805-56, FC9805-57, FC9805-58, FC9805-59, FC9805-64

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.9	108	81-122
107-06-2	1,2-Dichloroethane	25	26.2	105	75-125
108-20-3	Di-Isopropyl Ether	25	29.1	116	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1080	86	55-126
64-17-5	Ethyl Alcohol	500	428	86	46-145
100-41-4	Ethylbenzene	25	26.5	106	81-121
637-92-3	Ethyl Tert Butyl Ether	25	28.0	112	71-120
1634-04-4	Methyl Tert Butyl Ether	25	25.6	102	72-117
91-20-3	Naphthalene	25	19.5	78	63-132
75-85-4	Tert-Amyl Alcohol	250	205	82	65-124
994-05-8	Tert-Amyl Methyl Ether	25	25.9	104	73-122
75-65-0	Tert-Butyl Alcohol	250	279	112	63-129
762-75-4	Tert-Butyl Formate	125	177	142*	46-130
108-88-3	Toluene	25	25.6	102	80-120
1330-20-7	Xylene (total)	75	82.5	110	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3089-BS	2O79051.D	1	09/28/23	JW	n/a	n/a	V2O3089

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-7, FC9805-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.9	104	81-122
107-06-2	1,2-Dichloroethane	25	26.6	106	75-125
108-20-3	Di-Isopropyl Ether	25	23.3	93	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1140	91	55-126
64-17-5	Ethyl Alcohol	500	494	99	46-145
100-41-4	Ethylbenzene	25	26.6	106	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.8	99	71-120
1634-04-4	Methyl Tert Butyl Ether	25	24.6	98	72-117
91-20-3	Naphthalene	25	23.3	93	63-132
75-85-4	Tert-Amyl Alcohol	250	212	85	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.0	96	73-122
75-65-0	Tert-Butyl Alcohol	250	198	79	63-129
762-75-4	Tert-Butyl Formate	125	144	115	46-130
108-88-3	Toluene	25	26.6	106	80-120
1330-20-7	Xylene (total)	75	79.1	105	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1937-BS	1A49574.D	1	09/28/23	JW	n/a	n/a	V1A1937

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-30, FC9805-50

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.7	103	81-122
107-06-2	1,2-Dichloroethane	25	23.6	94	75-125
108-20-3	Di-Isopropyl Ether	25	24.6	98	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1090	87	55-126
64-17-5	Ethyl Alcohol	500	579	116	46-145
100-41-4	Ethylbenzene	25	20.7	83	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.3	97	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	72-117
91-20-3	Naphthalene	25	23.3	93	63-132
75-85-4	Tert-Amyl Alcohol	250	245	98	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.8	95	73-122
75-65-0	Tert-Butyl Alcohol	250	229	92	63-129
762-75-4	Tert-Butyl Formate	125	160	128	46-130
108-88-3	Toluene	25	23.3	93	80-120
1330-20-7	Xylene (total)	75	63.2	84	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	83%	79-125%
2037-26-5	Toluene-D8	92%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3852-BS	2P101633.D	1	09/29/23	JL	n/a	n/a	V2P3852

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-55

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
108-20-3	Di-Isopropyl Ether	25	24.2	97	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1350	108	55-126
64-17-5	Ethyl Alcohol	500	420	84	46-145
100-41-4	Ethylbenzene	25	25.9	104	81-121
637-92-3	Ethyl Tert Butyl Ether	25	25.1	100	71-120
1634-04-4	Methyl Tert Butyl Ether	25	24.6	98	72-117
91-20-3	Naphthalene	25	26.4	106	63-132
75-85-4	Tert-Amyl Alcohol	250	247	99	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.7	99	73-122
75-65-0	Tert-Butyl Alcohol	250	222	89	63-129
762-75-4	Tert-Butyl Formate	125	166	133*	46-130
108-88-3	Toluene	25	25.7	103	80-120
1330-20-7	Xylene (total)	75	77.0	103	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	116%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9805-4MS	1A49491.D	10	09/25/23	JW	n/a	n/a	V1A1933
FC9805-4MSD	1A49492.D	10	09/25/23	JW	n/a	n/a	V1A1933
FC9805-4	1A49471.D	1	09/25/23	JW	n/a	n/a	V1A1933

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-2, FC9805-4, FC9805-5, FC9805-6, FC9805-9, FC9805-10, FC9805-11, FC9805-12, FC9805-13, FC9805-14, FC9805-17, FC9805-18, FC9805-19, FC9805-20

CAS No.	Compound	FC9805-4 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	243	97	250	243	97	0	81-122/14
107-06-2	1,2-Dichloroethane	ND	250	225	90	250	234	94	4	75-125/14
108-20-3	Di-Isopropyl Ether	ND	250	237	95	250	245	98	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND	12500	9830	79	12500	10900	87	10	55-126/17
64-17-5	Ethyl Alcohol	ND	5000	5180	104	5000	5070	101	2	46-145/30
100-41-4	Ethylbenzene	ND	250	197	79*	250	201	80*	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND	250	241	96	250	244	98	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND	250	236	94	250	242	97	3	72-117/14
91-20-3	Naphthalene	ND	250	185	74	250	221	88	18	63-132/25
75-85-4	Tert-Amyl Alcohol	ND	2500	2150	86	2500	2380	95	10	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND	250	228	91	250	240	96	5	73-122/13
75-65-0	Tert-Butyl Alcohol	ND	2500	2740	110	2500	2940	118	7	63-129/27
762-75-4	Tert-Butyl Formate	ND	1250	ND	0*	1250	ND	0*	nc	46-130/33
108-88-3	Toluene	ND	250	221	88	250	228	91	3	80-120/14
1330-20-7	Xylene (total)	ND	750	602	80	750	612	82	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9805-4	Limits
1868-53-7	Dibromofluoromethane	106%	102%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	84%	84%	85%	79-125%
2037-26-5	Toluene-D8	93%	92%	94%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	95%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9839-2MS	I759186.D	5	09/25/23	JW	n/a	n/a	VI3025
FC9839-2MSD	I759187.D	5	09/25/23	JW	n/a	n/a	VI3025
FC9839-2 ^a	I759167.D	1	09/25/23	JW	n/a	n/a	VI3025

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-21, FC9805-22, FC9805-23, FC9805-24, FC9805-25, FC9805-26, FC9805-27, FC9805-28

CAS No.	Compound	FC9839-2 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.92	J	125	125	99	125	113	90	10	81-122/14
107-06-2	1,2-Dichloroethane	1.0 U		125	127	102	125	118	94	7	75-125/14
108-20-3	Di-Isopropyl Ether	1.0 U		125	123	98	125	114	91	8	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	50 U		6250	6400	102	6250	5850	94	9	55-126/17
64-17-5	Ethyl Alcohol	200 U		2500	2360	94	2500	2070	83	13	46-145/30
100-41-4	Ethylbenzene	1.0 U		125	123	98	125	111	89	10	81-121/14
637-92-3	Ethyl Tert Butyl Ether	2.0 U		125	128	102	125	118	94	8	71-120/14
1634-04-4	Methyl Tert Butyl Ether	1.0 U		125	129	103	125	120	96	7	72-117/14
91-20-3	Naphthalene	5.0 U		125	132	106	125	120	96	10	63-132/25
75-85-4	Tert-Amyl Alcohol	5.7	J	1250	1170	93	1250	1090	87	7	65-124/23
994-05-8	Tert-Amyl Methyl Ether	2.0 U		125	129	103	125	118	94	9	73-122/13
75-65-0	Tert-Butyl Alcohol	6.5	J	1250	1160	92	1250	1080	86	7	63-129/27
762-75-4	Tert-Butyl Formate	20 U		625	778	124	625	743	119	5	46-130/33
108-88-3	Toluene	1.0 U		125	122	98	125	110	88	10	80-120/14
1330-20-7	Xylene (total)	3.0 U		375	370	99	375	333	89	11	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9839-2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	92%	79-125%
2037-26-5	Toluene-D8	101%	101%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	99%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9805-29MS	N0126471.D	25	09/25/23	JL	n/a	n/a	VN6497
FC9805-29MSD	N0126472.D	25	09/25/23	JL	n/a	n/a	VN6497
FC9805-29 ^a	N0126451.D	25	09/25/23	JL	n/a	n/a	VN6497

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-31, FC9805-33, FC9805-34, FC9805-36, FC9805-38, FC9805-39, FC9805-40, FC9805-41, FC9805-42, FC9805-43, FC9805-44, FC9805-53

CAS No.	Compound	FC9805-29 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	625	698	112	625	632	101	10	81-122/14
107-06-2	1,2-Dichloroethane	ND	625	695	111	625	635	102	9	75-125/14
108-20-3	Di-Isopropyl Ether	ND	625	723	116	625	664	106	9	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	404	JB 31300	32700	103	31300	35300	112	8	55-126/17
64-17-5	Ethyl Alcohol	ND	12500	14900	119	12500	12000	96	22	46-145/30
100-41-4	Ethylbenzene	ND	625	694	111	625	636	102	9	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND	625	741	119	625	681	109	8	71-120/14
1634-04-4	Methyl Tert Butyl Ether	171	625	888	115	625	829	105	7	72-117/14
91-20-3	Naphthalene	ND	625	631	101	625	628	100	0	63-132/25
75-85-4	Tert-Amyl Alcohol	6690	6250	14900	131*	6250	14300	122	4	65-124/23
994-05-8	Tert-Amyl Methyl Ether	20.7	J 625	751	117	625	684	106	9	73-122/13
75-65-0	Tert-Butyl Alcohol	ND	6250	7380	118	6250	6790	109	8	63-129/27
762-75-4	Tert-Butyl Formate	ND	3130	4410	141*	3130	4380	140*	1	46-130/33
108-88-3	Toluene	ND	625	665	106	625	614	98	8	80-120/14
1330-20-7	Xylene (total)	ND	1880	2120	113	1880	1960	105	8	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9805-29	Limits
1868-53-7	Dibromofluoromethane	99%	98%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	99%	79-125%
2037-26-5	Toluene-D8	98%	100%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	102%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9743-36MS	1A49539.D	10	09/26/23	JW	n/a	n/a	V1A1935
FC9743-36MSD	1A49540.D	10	09/26/23	JW	n/a	n/a	V1A1935
FC9743-36	1A49519.D	1	09/26/23	JW	n/a	n/a	V1A1935

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-60, FC9805-61, FC9805-62, FC9805-63, FC9805-65, FC9805-66, FC9805-67, FC9805-68, FC9805-69

CAS No.	Compound	FC9743-36 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	256	102	250	236	94	8	81-122/14
107-06-2	1,2-Dichloroethane	ND	250	240	96	250	230	92	4	75-125/14
108-20-3	Di-Isopropyl Ether	ND	250	250	100	250	232	93	7	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND	12500	11100	89	12500	9890	79	12	55-126/17
64-17-5	Ethyl Alcohol	ND	5000	4890	98	5000	4730	95	3	46-145/30
100-41-4	Ethylbenzene	ND	250	210	84	250	190	76*	10	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND	250	257	103	250	242	97	6	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND	250	246	98	250	232	93	6	72-117/14
91-20-3	Naphthalene	ND	250	210	84	250	187	75	12	63-132/25
75-85-4	Tert-Amyl Alcohol	ND	2500	2420	97	2500	2190	88	10	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND	250	246	98	250	233	93	5	73-122/13
75-65-0	Tert-Butyl Alcohol	ND	2500	2470	99	2500	2200	88	12	63-129/27
762-75-4	Tert-Butyl Formate	ND	1250	1420	114	1250	1330	106	7	46-130/33
108-88-3	Toluene	ND	250	235	94	250	218	87	8	80-120/14
1330-20-7	Xylene (total)	ND	750	626	83	750	578	77*	8	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9743-36	Limits
1868-53-7	Dibromofluoromethane	103%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	84%	84%	85%	79-125%
2037-26-5	Toluene-D8	92%	91%	92%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9823-12MS	2078996.D	5	09/26/23	JW	n/a	n/a	V203086
FC9823-12MSD	2078997.D	5	09/26/23	JW	n/a	n/a	V203086
FC9823-12	2078977.D	10	09/26/23	JW	n/a	n/a	V203086

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-1, FC9805-3, FC9805-6, FC9805-15, FC9805-16, FC9805-47, FC9805-54

CAS No.	Compound	FC9823-12 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	7.1	I	125	129	100	125	137	6	81-122/14
107-06-2	1,2-Dichloroethane	10 U		125	127	102	125	132	4	75-125/14
108-20-3	Di-Isopropyl Ether	10 U		125	111	89	125	119	7	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	500 U		6250	5810	93	6250	6590	13	55-126/17
64-17-5	Ethyl Alcohol	2000 U		2500	2130	85	2500	2460	14	46-145/30
100-41-4	Ethylbenzene	38.9		125	163	115	125	172	5	81-121/14
637-92-3	Ethyl Tert Butyl Ether	20 U		125	118	94	125	127	7	71-120/14
1634-04-4	Methyl Tert Butyl Ether	10 U		125	119	95	125	129	8	72-117/14
91-20-3	Naphthalene	102		125	236	148*	125	248	5	63-132/25
75-85-4	Tert-Amyl Alcohol	200 U		1250	1020	82	1250	1150	12	65-124/23
994-05-8	Tert-Amyl Methyl Ether	20 U		125	116	93	125	125	7	73-122/13
75-65-0	Tert-Butyl Alcohol	200 U		1250	995	80	1250	1160	15	63-129/27
762-75-4	Tert-Butyl Formate	200 U		625	412	66	625	444	7	46-130/33
108-88-3	Toluene	20.4		125	146	109	125	153	5	80-120/14
1330-20-7	Xylene (total)	156		375	539	123	375	565	5	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9823-12	Limits
1868-53-7	Dibromofluoromethane	99%	99%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	101%	79-125%
2037-26-5	Toluene-D8	103%	103%	104%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9821-10MS	1A49568.D	5	09/27/23	JW	n/a	n/a	V1A1936
FC9821-10MSD	1A49569.D	5	09/27/23	JW	n/a	n/a	V1A1936
FC9821-10 ^a	1A49550.D	1	09/27/23	JW	n/a	n/a	V1A1936

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-29, FC9805-32, FC9805-35, FC9805-37, FC9805-44

CAS No.	Compound	FC9821-10 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	125	129	103	125	126	101	2	81-122/14
107-06-2	1,2-Dichloroethane	1.0 U	125	118	94	125	119	95	1	75-125/14
108-20-3	Di-Isopropyl Ether	1.0 U	125	123	98	125	124	99	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	50 U	6250	5100	82	6250	5170	83	1	55-126/17
64-17-5	Ethyl Alcohol	250 U	2500	2720	109	2500	2360	94	14	46-145/30
100-41-4	Ethylbenzene	1.0 U	125	102	82	125	97.3	78*	5	81-121/14
637-92-3	Ethyl Tert Butyl Ether	2.0 U	125	125	100	125	126	101	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	1.0 U	125	120	96	125	119	95	1	72-117/14
91-20-3	Naphthalene	5.0 U	125	90.0	72	125	93.5	75	4	63-132/25
75-85-4	Tert-Amyl Alcohol	20 U	1250	1110	89	1250	1110	89	0	65-124/23
994-05-8	Tert-Amyl Methyl Ether	2.0 U	125	119	95	125	121	97	2	73-122/13
75-65-0	Tert-Butyl Alcohol	20 U	1250	1210	97	1250	1240	99	2	63-129/27
762-75-4	Tert-Butyl Formate	20 U	625	457	73	625	444	71	3	46-130/33
108-88-3	Toluene	1.0 U	125	115	92	125	112	90	3	80-120/14
1330-20-7	Xylene (total)	3.0 U	375	310	83	375	300	80	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9821-10	Limits
1868-53-7	Dibromofluoromethane	101%	105%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	85%	86%	87%	79-125%
2037-26-5	Toluene-D8	90%	90%	89%	85-112%
460-00-4	4-Bromofluorobenzene	95%	95%	95%	83-118%

(a) Sample was treated with an anti-foaming agent.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9805-46MS	N0126555.D	5	09/27/23	JL	n/a	n/a	VN6500
FC9805-46MSD	N0126556.D	5	09/27/23	JL	n/a	n/a	VN6500
FC9805-46	N0126536.D	1	09/27/23	JL	n/a	n/a	VN6500

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-45, FC9805-46, FC9805-47, FC9805-48, FC9805-49, FC9805-51, FC9805-52, FC9805-53, FC9805-55, FC9805-56, FC9805-57, FC9805-58, FC9805-59, FC9805-64

CAS No.	Compound	FC9805-46 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
71-43-2	Benzene	29.8		125	201	137*	125	142	34*	81-122/14	
107-06-2	1,2-Dichloroethane	ND		125	158	126*	125	101	44*	75-125/14	
108-20-3	Di-Isopropyl Ether	ND		125	190	152*	125	125	41*	68-123/16	
624-95-3	3,3-Dimethyl-1-Butanol	18.4	JB	6250	2940	47*	6250	2850	3	55-126/17	
64-17-5	Ethyl Alcohol	ND		2500	1820	73	2500	1400	26	46-145/30	
100-41-4	Ethylbenzene	ND		125	174	139*	125	118	94	38*	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		125	187	150*	125	124	99	41*	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		125	150	120*	125	94.5	76	45*	72-117/14
91-20-3	Naphthalene	ND		125	72.3	58*	125	54.2	43*	29*	63-132/25
75-85-4	Tert-Amyl Alcohol	19.9	J	1250	907	71	1250	596	46*	41*	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		125	157	126*	125	99.2	79	45*	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		1250	1870	150*	1250	1240	99	41*	63-129/27
762-75-4	Tert-Butyl Formate	ND		625	697	112	625	449	72	43*	46-130/33
108-88-3	Toluene	ND		125	168	134*	125	115	92	37*	80-120/14
1330-20-7	Xylene (total)	1.1	J	375	546	145*	375	369	98	39*	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9805-46	Limits
1868-53-7	Dibromofluoromethane	100%	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	90%	88%	99%	79-125%
2037-26-5	Toluene-D8	98%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	102%	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9886-1MS	2079064.D	5	09/28/23	JW	n/a	n/a	V203089
FC9886-1MSD	2079065.D	5	09/28/23	JW	n/a	n/a	V203089
FC9886-1 ^a	2079056.D	1	09/28/23	JW	n/a	n/a	V203089

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-7, FC9805-8

CAS No.	Compound	FC9886-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	125	127	102	125	137	110	8	81-122/14
107-06-2	1,2-Dichloroethane	1.0 U	125	134	107	125	142	114	6	75-125/14
108-20-3	Di-Isopropyl Ether	1.0 U	125	112	90	125	121	97	8	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	50 U	6250	5820	93	6250	6230	100	7	55-126/17
64-17-5	Ethyl Alcohol	200 U	2500	2480	99	2500	2790	112	12	46-145/30
100-41-4	Ethylbenzene	1.0 U	125	126	101	125	140	112	11	81-121/14
637-92-3	Ethyl Tert Butyl Ether	2.0 U	125	119	95	125	129	103	8	71-120/14
1634-04-4	Methyl Tert Butyl Ether	1.0 U	125	118	94	125	129	103	9	72-117/14
91-20-3	Naphthalene	5.0 U	125	112	90	125	123	98	9	63-132/25
75-85-4	Tert-Amyl Alcohol	20 U	1250	1050	84	1250	1160	93	10	65-124/23
994-05-8	Tert-Amyl Methyl Ether	2.0 U	125	117	94	125	126	101	7	73-122/13
75-65-0	Tert-Butyl Alcohol	20 U	1250	1000	80	1250	1100	88	10	63-129/27
762-75-4	Tert-Butyl Formate	20 U	625	585	94	625	616	99	5	46-130/33
108-88-3	Toluene	1.0 U	125	127	102	125	140	112	10	80-120/14
1330-20-7	Xylene (total)	3.0 U	375	371	99	375	411	110	10	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9886-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	100%	79-125%
2037-26-5	Toluene-D8	102%	103%	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	103%	83-118%

(a) Sample was treated with an anti-foaming agent.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9899-5MS	1A49587.D	10	09/28/23	JW	n/a	n/a	V1A1937
FC9899-5MSD	1A49588.D	10	09/28/23	JW	n/a	n/a	V1A1937
FC9899-5	1A49577.D	1	09/28/23	JW	n/a	n/a	V1A1937

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-30, FC9805-50

CAS No.	Compound	FC9899-5 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	248	99	250	268	107	8	81-122/14
107-06-2	1,2-Dichloroethane	ND	250	236	94	250	243	97	3	75-125/14
108-20-3	Di-Isopropyl Ether	ND	250	248	99	250	261	104	5	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND	12500	9600	77	12500	10600	85	10	55-126/17
64-17-5	Ethyl Alcohol	ND	5000	4640	93	5000	5370	107	15	46-145/30
100-41-4	Ethylbenzene	ND	250	196	78*	250	213	85	8	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND	250	248	99	250	262	105	5	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND	250	242	97	250	249	100	3	72-117/14
91-20-3	Naphthalene	ND	250	187	75	250	221	88	17	63-132/25
75-85-4	Tert-Amyl Alcohol	ND	2500	2280	91	2500	2480	99	8	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND	250	243	97	250	253	101	4	73-122/13
75-65-0	Tert-Butyl Alcohol	ND	2500	2240	90	2500	2350	94	5	63-129/27
762-75-4	Tert-Butyl Formate	ND	1250	1560	125	1250	1650	132*	6	46-130/33
108-88-3	Toluene	ND	250	222	89	250	239	96	7	80-120/14
1330-20-7	Xylene (total)	ND	750	598	80	750	650	87	8	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9899-5	Limits
1868-53-7	Dibromofluoromethane	103%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	84%	83%	86%	79-125%
2037-26-5	Toluene-D8	91%	93%	91%	85-112%
460-00-4	4-Bromofluorobenzene	97%	96%	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC9805
Account: ATCSCC ATC Group Services LLC
Project: Circle K 2720886; 4315 Savannah Hwy, Ravenel, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC9805-55MS	2P101638.D	10	09/29/23	JL	n/a	n/a	V2P3852
FC9805-55MSD	2P101639.D	10	09/29/23	JL	n/a	n/a	V2P3852
FC9805-55 ^a	2P101637.D	1	09/29/23	JL	n/a	n/a	V2P3852

The QC reported here applies to the following samples:

Method: SW846 8260D

FC9805-55

CAS No.	Compound	FC9805-55 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
107-06-2	1,2-Dichloroethane	ND		250	245	98	250	229	92	7	75-125/14
108-20-3	Di-Isopropyl Ether	0.64	J	250	236	94	250	231	92	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		12500	13300	106	12500	14300	114	7	55-126/17
64-17-5	Ethyl Alcohol	ND		5000	4140	83	5000	4210	84	2	46-145/30
100-41-4	Ethylbenzene	4.0		250	260	102	250	256	101	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	23.3		250	267	97	250	262	95	2	71-120/14
1634-04-4	Methyl Tert Butyl Ether	7.1		250	237	92	250	237	92	0	72-117/14
91-20-3	Naphthalene	1.2	J	250	253	101	250	255	102	1	63-132/25
75-85-4	Tert-Amyl Alcohol	126		2500	2510	95	2500	2570	98	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	2.9		250	240	95	250	236	93	2	73-122/13
75-65-0	Tert-Butyl Alcohol	24.9		2500	2120	84	2500	2160	85	2	63-129/27
762-75-4	Tert-Butyl Formate	ND		1250	1630	130	1250	1690	135*	4	46-130/33
108-88-3	Toluene	0.97	J	250	255	102	250	250	100	2	80-120/14
1330-20-7	Xylene (total)	4.3		750	767	102	750	748	99	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC9805-55	Limits
1868-53-7	Dibromofluoromethane	97%	98%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	114%	114%	109%	79-125%
2037-26-5	Toluene-D8	107%	109%	106%	85-112%
460-00-4	4-Bromofluorobenzene	104%	104%	107%	83-118%

(a) Sample vial(s) contained significant headspace.

* = Outside of Control Limits.



September 29, 2023

Brad Hubbard
ATC Group Services
6904 North Main Street
Suite 107
Columbia, SC 29203

RE: Project: CIRCLE K 886 257CK88613 DW
Pace Project No.: 92689756

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni for
Taylor M Cannon
taylor.cannon@pacelabs.com
704-977-0943
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92689756001	01589 WSW-12	Water	09/20/23 14:25	09/22/23 12:11
92689756002	01589 WSW-13	Water	09/20/23 14:53	09/22/23 12:11
92689756003	01589 WSW-DUP	Water	09/20/23 00:00	09/22/23 12:11
92689756004	01589 WSW-FB	Water	09/20/23 15:02	09/22/23 12:11
92689756005	TRIP BLANK	Water	09/20/23 00:00	09/22/23 12:11

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SAMPLE ANALYTE COUNT

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92689756001	01589 WSW-12	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	LMB	11	PASI-C
92689756002	01589 WSW-13	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	LMB	11	PASI-C
92689756003	01589 WSW-DUP	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	LMB	11	PASI-C
92689756004	01589 WSW-FB	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	LMB	11	PASI-C
92689756005	TRIP BLANK	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	LMB	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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PROJECT NARRATIVE

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Method: EPA 524.2

Description: 524.2 MSV SC List

Client: ATC Group Services, LLC - Columbia

Date: September 29, 2023

General Information:

5 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: September 29, 2023

General Information:

5 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Sample: 01589 WSW-12 **Lab ID: 92689756001** Collected: 09/20/23 14:25 Received: 09/22/23 12:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		09/26/23 05:40	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		09/26/23 05:40	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		09/26/23 05:40	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		09/26/23 05:40	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		09/26/23 05:40	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		09/26/23 05:40	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		09/26/23 05:40	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		09/26/23 05:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	86	%	70-130		1		09/26/23 05:40	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130		1		09/26/23 05:40	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		09/27/23 12:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		09/27/23 12:59	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		09/27/23 12:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		09/27/23 12:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		09/27/23 12:59	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		09/27/23 12:59	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		09/27/23 12:59	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		09/27/23 12:59	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/27/23 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		09/27/23 12:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		09/27/23 12:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Sample: 01589 WSW-13 Lab ID: 92689756002 Collected: 09/20/23 14:53 Received: 09/22/23 12:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		09/26/23 06:07	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		09/26/23 06:07	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:07	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		09/26/23 06:07	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		09/26/23 06:07	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		09/26/23 06:07	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		09/26/23 06:07	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:07	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		09/26/23 06:07	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130		1		09/26/23 06:07	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		09/27/23 13:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		09/27/23 13:17	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		09/27/23 13:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		09/27/23 13:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		09/27/23 13:17	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		09/27/23 13:17	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		09/27/23 13:17	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		09/27/23 13:17	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/27/23 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		09/27/23 13:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		09/27/23 13:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Sample: 01589 WSW-DUP Lab ID: 92689756003 Collected: 09/20/23 00:00 Received: 09/22/23 12:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		09/26/23 06:33	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		09/26/23 06:33	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:33	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		09/26/23 06:33	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		09/26/23 06:33	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		09/26/23 06:33	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		09/26/23 06:33	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	86	%	70-130		1		09/26/23 06:33	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130		1		09/26/23 06:33	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		09/27/23 13:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		09/27/23 13:35	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		09/27/23 13:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		09/27/23 13:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		09/27/23 13:35	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		09/27/23 13:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		09/27/23 13:35	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		09/27/23 13:35	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/27/23 13:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		09/27/23 13:35	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		09/27/23 13:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Sample: 01589 WSW-FB Lab ID: 92689756004 Collected: 09/20/23 15:02 Received: 09/22/23 12:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		09/26/23 06:59	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		09/26/23 06:59	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:59	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		09/26/23 06:59	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		09/26/23 06:59	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		09/26/23 06:59	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		09/26/23 06:59	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		09/26/23 06:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	84	%	70-130		1		09/26/23 06:59	2199-69-1	
4-Bromofluorobenzene (S)	79	%	70-130		1		09/26/23 06:59	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		09/27/23 12:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		09/27/23 12:40	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		09/27/23 12:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		09/27/23 12:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		09/27/23 12:40	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		09/27/23 12:40	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		09/27/23 12:40	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		09/27/23 12:40	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/27/23 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		09/27/23 12:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		09/27/23 12:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Sample: TRIP BLANK **Lab ID: 92689756005** Collected: 09/20/23 00:00 Received: 09/22/23 12:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		09/26/23 08:27	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		09/26/23 08:27	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		09/26/23 08:27	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		09/26/23 08:27	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		09/26/23 08:27	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		09/26/23 08:27	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		09/26/23 08:27	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		09/26/23 08:27	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	85	%	70-130		1		09/26/23 08:27	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130		1		09/26/23 08:27	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		09/27/23 12:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		09/27/23 12:22	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		09/27/23 12:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		09/27/23 12:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		09/27/23 12:22	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		09/27/23 12:22	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		09/27/23 12:22	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		09/27/23 12:22	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/27/23 12:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		09/27/23 12:22	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		09/27/23 12:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

QC Batch:	802345	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92689756001, 92689756002, 92689756003, 92689756004, 92689756005

METHOD BLANK: 4156057 Matrix: Water

Associated Lab Samples: 92689756001, 92689756002, 92689756003, 92689756004, 92689756005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00016	09/26/23 03:29	
Benzene	mg/L	ND	0.00050	0.00021	09/26/23 03:29	
Ethylbenzene	mg/L	ND	0.00050	0.00022	09/26/23 03:29	
m&p-Xylene	mg/L	ND	0.0010	0.00039	09/26/23 03:29	
Methyl-tert-butyl ether	mg/L	ND	0.00050	0.00014	09/26/23 03:29	
Naphthalene	mg/L	ND	0.00050	0.00035	09/26/23 03:29	
o-Xylene	mg/L	ND	0.00050	0.00022	09/26/23 03:29	
Toluene	mg/L	ND	0.00050	0.00020	09/26/23 03:29	
1,2-Dichlorobenzene-d4 (S)	%	87	70-130		09/26/23 03:29	
4-Bromofluorobenzene (S)	%	81	70-130		09/26/23 03:29	

LABORATORY CONTROL SAMPLE: 4156058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.023	115	70-130	
Benzene	mg/L	0.02	0.022	108	70-130	
Ethylbenzene	mg/L	0.02	0.019	96	70-130	
m&p-Xylene	mg/L	0.04	0.036	89	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.021	105	70-130	
Naphthalene	mg/L	0.02	0.018	89	70-130	
o-Xylene	mg/L	0.02	0.017	87	70-130	
Toluene	mg/L	0.02	0.021	107	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

QC Batch: 802108 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92689756001, 92689756002, 92689756003, 92689756004, 92689756005

METHOD BLANK: 4154926 Matrix: Water

Associated Lab Samples: 92689756001, 92689756002, 92689756003, 92689756004, 92689756005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	09/27/23 11:08	
Diisopropyl ether	ug/L	ND	1.0	0.31	09/27/23 11:08	
Ethanol	ug/L	ND	200	72.2	09/27/23 11:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	09/27/23 11:08	
tert-Amyl Alcohol	ug/L	ND	100	36.4	09/27/23 11:08	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	09/27/23 11:08	
tert-Butyl Alcohol	ug/L	ND	100	26.8	09/27/23 11:08	
tert-Butyl Formate	ug/L	ND	50.0	29.4	09/27/23 11:08	
1,2-Dichloroethane-d4 (S)	%	104	70-130		09/27/23 11:08	
4-Bromofluorobenzene (S)	%	98	70-130		09/27/23 11:08	
Toluene-d8 (S)	%	99	70-130		09/27/23 11:08	

LABORATORY CONTROL SAMPLE: 4154927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	350	87	70-130	
Diisopropyl ether	ug/L	20	20.3	101	70-130	
Ethanol	ug/L	800	809	101	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.0	98	70-130	
tert-Amyl Alcohol	ug/L	400	357	89	70-130	
tert-Amylmethyl ether	ug/L	40	39.3	98	70-130	
tert-Butyl Alcohol	ug/L	200	178	89	70-130	
tert-Butyl Formate	ug/L	160	142	89	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 4154928

Parameter	Units	92689756001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	414	103	39-157	
Diisopropyl ether	ug/L	ND	20	23.3	117	63-144	
Ethanol	ug/L	ND	800	973	122	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	43.8	110	66-137	
tert-Amyl Alcohol	ug/L	ND	400	412	103	54-153	
tert-Amylmethyl ether	ug/L	ND	40	44.5	111	69-139	
tert-Butyl Alcohol	ug/L	ND	200	319	159	43-188	

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QUALITY CONTROL DATA

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

MATRIX SPIKE SAMPLE: 4154928		92689756001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	10	10-170	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 4154929		92689756002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	109	104			
4-Bromofluorobenzene (S)	%	97	99			
Toluene-d8 (S)	%	98	99			

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QUALIFIERS

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CIRCLE K 886 257CK88613 DW

Pace Project No.: 92689756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689756001	01589 WSW-12	EPA 524.2	802345		
92689756002	01589 WSW-13	EPA 524.2	802345		
92689756003	01589 WSW-DUP	EPA 524.2	802345		
92689756004	01589 WSW-FB	EPA 524.2	802345		
92689756005	TRIP BLANK	EPA 524.2	802345		
92689756001	01589 WSW-12	EPA 8260D	802108		
92689756002	01589 WSW-13	EPA 8260D	802108		
92689756003	01589 WSW-DUP	EPA 8260D	802108		
92689756004	01589 WSW-FB	EPA 8260D	802108		
92689756005	TRIP BLANK	EPA 8260D	802108		

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Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

ATC Group Services, LLC - Columbia

Project #

WO#: 92689756

Courier:

Commercial

Fed Ex

UPS

USPS

Client

Pace *JK*

Other: _____



Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: *JK*

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen? *9-22-28*

Yes No N/A

Thermometer:

IR Gun ID:

921070

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.8

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *3.8*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>WET</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project

WO#: 92689756

PM: TMC

Due Date: 09/29/23

CLIENT: 92-ATC_Colum

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	3	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	3	/	/	/	/
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6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Sample Receiving Non-Conformance Form (NCF)

Date: 9-25-23	Evaluated by: <i>[Signature]</i>
Client: ATC Crop Service, LLC	

WO# : 92689756	t Pace member
PM: TMC	Due Date: 09/29/23
CLIENT: 92-ATC_Colum	

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

[Signature]

Sample *WSW12* has one DCPH mislabeled as WSW

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields



Scan QR Code for instructions

Company Name: ATC Group Services, LLC - Columbia
Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Hubbard, Brad
Phone #: NONE
E-Mail: brad.hubbard@atcgs.com
Cc E-Mail:

Customer Project #: Circle K 986 257CK88613 DW

Invoice To:
Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):

Purchase Order # (if applicable):
Quote #:

Time Zone Collected: AK PT MT CT ET
County / State origin of sample(s): South Carolina

Data Deliverables: Level II Level III Level IV
 EQUIS
 Other

Rush (Pre-approval required): 2 Day 3 day 5 day Other
Date Results Requested: Field Filtered (if applicable): Yes No
Analysis:

Regulatory Program (DW, RCRA, etc.) as applicable: South Carolina
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): Yes No

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. Cl2	Number & Type of Containers Plastic Glass	Trip Blank	VOC 524.2	VOC by 8260 Oxygs	# Coolers:	Thermometer ID:	Correction Factor (C):	Obs. Temp. (C)	Corrected Temp. (C)	
			Date	Time	Date	Time											
01589	MSW-12	DW G	9/20/23	1425				6			3						92689756001
01589	MSW-13			1453				1			3						002
	MSW-Dup			1408				1			3						003
	MSW-FB			1502				2			3						004
	Trip Blank							2			3						005

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: **Carolyn Morris**
Printed Name: **Carolyn Morris**
Signature: *Carolyn Morris*

Received by/Company (Signature): *Carolyn Morris* / ATLAS
Date/Time: 9/22/23 0800

Received by/Company (Signature): *Brad Hubbard* / Pace
Date/Time: 9-22-23 1753

Received by/Company (Signature): *Brad Hubbard* / Pace
Date/Time: 9-22-23 1811

Additional Instructions from Pace*:
Coolers: 1
Thermometer ID: 3.8
Correction Factor (C): 0.0
Obs. Temp. (C): 3.8
Corrected Temp. (C): 3.8

Tracking Number: 1271793
Delivered by: In-Person Courier
 FedEx UPS Other

Page: 1 of 1

APPENDIX D
QAPP CONTRACTOR CHECKLIST

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)	X		X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)	X		
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

APPENDIX E
WELL RECORD AND DEVELOPMENT FORMS



**Well Development Data Verification Form
Underground Storage Tank Management Division**

Facility Name: Circle K # 2720886 Site ID#: 01589
 Date: 7/31/23 Field Personnel: B. Hubbard
 Drilling Company: Verco, LLC Driller's Name: J. Chiorazzi
 Driller's Certification Number: 1790 Weather Conditions: sunny, hot

Well Development Method

Surge Block Submersible Pump Air Lifting

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. _____	serial no. _____	serial no. _____	serial no. _____
pH=4.0 <u>4</u>	standard <u>100</u>		NTU=0.0 _____
pH=7.0 <u>7</u>			NTU=1.0 _____
pH=10.0 <u>10</u>			NTU=10.0 _____

Drilling Method

Hollow Stem Augers Solid Flight Augers Direct Push
 Air Rotary Mud Rotary Sonic

Monitoring Well ID# MW-26R Well Casing Diameter 2 inches Borehole Diameter 4 inches
 Depth to Ground Water (DGW) 6 ft. Screen Length/Slot Size 10 ft./ 0.02 in.
 Total Well Depth (TWD) 15 ft. Screen Interval 5 ft. to 15 ft.
 Length of water column (LWC=TWD-DGW) 9 ft. Type of Drilling Fluids used: n/a
 Total Gallons of Water Removed: 15 gals. Drilling Fluids recovered n/a gals.

Time (military)	1030	1035	1040	1045			
pH (s.u.)*	6.4	5.74	5.3	4.74			
Specific Conductivity (mmhos/cm)*	0.195	0.2	0.237	0.211			
Water Temperature (C)*	27.48	27.47	27.32	25.64			
Turbidity (NTU) *	>1000	>1000	>1000	>1000			
Physical Characteristics (color/odor)	muddy	muddy	cloudy	sli. cloudy			
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	0 gals	5 gals	10 gals	15 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Monsoon pump used
pump used to agitate well while pumping

Driller Signature: Date: 7/31/23



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Circle K # 2720886 Site ID#: 01589
 Date: 7/31/23 Field Personnel: B. Hubbard
 Drilling Company: Verco, LLC Driller's Name: J. Chiorazzi
 Driller's Certification Number: 1790 Weather Conditions: sunny, hot

Well Development Method

Surge Block Submersible Pump Air Lifting

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. _____	serial no. _____	serial no. _____	serial no. _____
pH=4.0 <u>4</u>	standard <u>100</u>		NTU=0.0 _____
pH=7.0 <u>7</u>			NTU=1.0 _____
pH=10.0 <u>10</u>			NTU=10.0 _____

Drilling Method

Hollow Stem Augers Solid Flight Augers Direct Push
 Air Rotary Mud Rotary Sonic

Monitoring Well ID# MW-29R Well Casing Diameter 2 inches Borehole Diameter 4 inches
 Depth to Ground Water (DGW) 6 ft. Screen Length/Slot Size 10 ft./ 0.02 in.
 Total Well Depth (TWD) 15 ft. Screen Interval 5 ft. to 15 ft.
 Length of water column (LWC=TWD-DGW) 9 ft. Type of Drilling Fluids used: n/a
 Total Gallons of Water Removed: 15 gals. Drilling Fluids recovered n/a gals.

Time (military)	1055	1100	1105	1110			
pH (s.u.)*	4.49	4.1	4.07	4.06			
Specific Conductivity (mmhos/cm)*	0.216	0.233	0.233	0.235			
Water Temperature (C)*	27.28	26.42	26.12	25.98			
Turbidity (NTU) *	>1000	>1000	>1000	>1000			
Physical Characteristics (color/odor)	muddy	muddy	cloudy	sli. cloudy			
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	0 gals	5 gals	10 gals	15 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$.

Detailed description of Well Development process: Monsoon pump used
pump used to agitate well while pumping

Driller Signature: Date: 7/31/23



**Well Development Data Verification Form
Underground Storage Tank Management Division**

Facility Name: Circle K # 2720886 Site ID#: 01589
 Date: 7/31/23 Field Personnel: B. Hubbard
 Drilling Company: Verco, LLC Driller's Name: J. Chiorazzi
 Driller's Certification Number: 1790 Weather Conditions: sunny, hot

Well Development Method

Surge Block Submersible Pump Air Lifting

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. _____	serial no. _____	serial no. _____	serial no. _____
pH=4.0 <u>4</u>	standard <u>100</u>		NTU=0.0 _____
pH=7.0 <u>7</u>			NTU=1.0 _____
pH=10.0 <u>10</u>			NTU=10.0 _____

Drilling Method

Hollow Stem Augers Solid Flight Augers Direct Push
 Air Rotary Mud Rotary Sonic

Monitoring Well ID# MW-37R Well Casing Diameter 2 inches Borehole Diameter 4 inches
 Depth to Ground Water (DGW) 6 ft. Screen Length/Slot Size 10 ft./ 0.02 in.
 Total Well Depth (TWD) 15 ft. Screen Interval 5 ft. to 15 ft.
 Length of water column (LWC=TWD-DGW) 9 ft. Type of Drilling Fluids used: n/a
 Total Gallons of Water Removed: 15 gals. Drilling Fluids recovered n/a gals.

Time (military)	1150	1155	1200	1205			
pH (s.u.)*	4.19	4.12	4.14	4.14			
Specific Conductivity (mmhos/cm)*	0.109	0.211	0.214	0.222			
Water Temperature (C)*	27.62	27.48	27.11	26.54			
Turbidity (NTU) *	336	>1000	>1000	340			
Physical Characteristics (color/odor)	clear	clear	clear	clear			
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	0 gals	5 gals	10 gals	15 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$.

Detailed description of Well Development process: Monsoon pump used
pump used to agitate well while pumping

Driller Signature:  Date: 7/31/23



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Circle K # 2720886 Site ID#: 01589
 Date: 7/31/23 Field Personnel: B. Hubbard
 Drilling Company: Verco, LLC Driller's Name: J. Chiorazzi
 Driller's Certification Number: 1790 Weather Conditions: sunny, hot

Well Development Method

Surge Block Submersible Pump Air Lifting

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. _____	serial no. _____	serial no. _____	serial no. _____
pH=4.0 <u>4</u>	standard <u>100</u>		NTU=0.0 _____
pH=7.0 <u>7</u>			NTU=1.0 _____
pH=10.0 <u>10</u>			NTU=10.0 _____

Drilling Method

Hollow Stem Augers Solid Flight Augers Direct Push
 Air Rotary Mud Rotary Sonic

Monitoring Well ID# MW-38R Well Casing Diameter 2 inches Borehole Diameter 4 inches
 Depth to Ground Water (DGW) 6 ft. Screen Length/Slot Size 10 ft./ 0.02 in.
 Total Well Depth (TWD) 15 ft. Screen Interval 5 ft. to 15 ft.
 Length of water column (LWC=TWD-DGW) 9 ft. Type of Drilling Fluids used: n/a
 Total Gallons of Water Removed: 15 gals. Drilling Fluids recovered n/a gals.

Time (military)	1115	1120	1125	1130			
pH (s.u.)*	4.19	4.2	4.16	4.1			
Specific Conductivity (mmhos/cm)*	0.225	0.22	0.216	0.217			
Water Temperature (C)*	27.41	27.38	26.62	25.81			
Turbidity (NTU) *	>1000	>1000	>1000	522			
Physical Characteristics (color/odor)	muddy	cloudy	clear	clear			
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	0 gals	5 gals	10 gals	15 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$.

Detailed description of Well Development process: Monsoon pump used
pump used to agitate well while pumping

Driller Signature: Date: 7/31/23

APPENDIX F
AFVR REPORTS

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
DATE: 7/17/2023

Date	Time (hh:mm)	Extraction Well					MMPPE Unit Exhaust					
		RW-1	MMW-1	DMW-1	Head Vacuum (in. Hg)	Target Singler Depth	Relative Humidity	Temp (°F)	Pretreatment Conc. (ppm)	Offgas Velocity Ft/min	Water Vapor (%)	Flow Rate (DSCFM)
7/17/2023	11:00	14.0	16.0	15.0			11.1	160	278.1	2600	0.02	106.29
	11:30	14.0	16.0	15.0			10.3	170	259.4	2600	0.03	103.54
	12:00	14.0	16.0	15.0			9.4	180	207.3	2600	0.03	101.92
	12:30	14.0	16.0	15.0			9.1	185	194.2	2600	0.03	101.13
	13:00	14.0	16.0	15.0			9.0	190	173.5	2600	0.04	99.32
	13:30	14.0	16.0	15.0			8.5	195	156.6	2600	0.04	98.56
	14:00	14.0	16.0	15.0			7.9	200	165.7	2600	0.04	97.81
	14:30	14.0	16.0	15.0			7.5	200	179.8	2600	0.04	97.81
	15:00	14.0	16.0	15.0			5.9	210	183.7	2600	0.04	96.35
	15:30	14.0	16.0	15.0			5.3	215	170.4	2600	0.04	95.64
	16:00	14.0	16.0	15.0			5.0	210	191.1	2600	0.04	96.35
	16:30	14.0	16.0	15.0			5.2	210	184.6	2600	0.04	96.35
	17:00	14.0	16.0	15.0			5.1	211	177.7	2600	0.04	96.21
	17:30	14.0	16.0	15.0			5.2	215	172.4	2600	0.04	95.64
	18:00	14.0	16.0	15.0			5.3	215	168.8	2600	0.04	95.64
	18:30	14.0	16.0	15.0			5.1	210	153.7	2600	0.04	96.35
	19:00	14.0	16.0	15.0								
Well Gauging Data:												
Well No.	Diameter (in)	Total Depth (ft)	Target Singler Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
RW-1	4.00		11.00	6.25	6.29	0.04	0.00	8.83	0.00	0.00	8.83	0.00
MMW-1	2.00		11.00	0.00	6.64	0.00	0.00	8.75	0.00	0.00	8.75	0.00
DMW-1	2.00		11.00	0.00	6.76	0.00	0.00	8.21	0.00	0.00	8.21	0.00
Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPPE Unit) Velocity - The rate at which air flows is measured at the blower discharge piping Temperature - The temperature of the air stream exiting the blower discharge piping Relative Humidity - The & relative humidity of the air stream exiting the blower discharge piping Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity) Flow rate = (1 - water vapor)(velocity)(pipe diameter)(24)(2)(3.14)(528°R/Temp + 460)												
AFVR Information											Total Gallons Extracted	
Client	Atlas											800
Equipment Operator:	JG/CJ											
Blower Discharge I.D.	3 inches											

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID #
DATE: 7/17/2023

Date/Time	Elapsed Time (hr)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm ³)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
7/17/2023 - 11:00	0.0								
11:30	0.5	106.29	278.1	4	1112.4	5917.968	0.000369459	2.35620515	1.178102575
12:00	1.0	103.54	259.4	4	1037.6	5520.032	0.000344616	2.140813735	1.070406867
12:30	1.5	101.92	207.3	4	829.2	4411.344	0.0002754	1.684103538	0.842051769
13:00	2.0	101.13	194.2	4	776.8	4132.576	0.000257997	1.565449171	0.782724586
13:30	2.5	99.32	173.5	4	694	3692.08	0.000230497	1.373520297	0.686760148
14:00	3.0	98.56	156.6	4	626.4	3332.448	0.000208045	1.230267118	0.615133559
14:30	3.5	97.81	165.7	4	662.8	3526.096	0.000220134	1.291895935	0.645947968
15:00	4.0	97.81	179.8	4	719.2	3826.144	0.000238866	1.401827937	0.700913968
15:30	4.5	96.35	183.7	4	734.8	3909.136	0.000244047	1.410858024	0.705429012
16:00	5.0	95.64	170.4	4	681.6	3626.112	0.000226378	1.299016826	0.649508413
16:30	5.5	96.35	191.1	4	764.4	4066.608	0.000253878	1.467691717	0.733845858
17:00	6.0	96.35	184.6	4	738.4	3928.288	0.000245243	1.41777023	0.708885115
17:30	6.5	96.21	177.7	4	710.8	3781.456	0.000236076	1.362742707	0.681371354
18:00	7.0	95.64	172.4	4	689.6	3668.672	0.000229035	1.314263502	0.657131751
18:30	7.5	95.64	168.8	4	675.2	3592.064	0.000224253	1.286819485	0.643409743
19:00	8.0	96.35	153.7	4	614.8	3270.736	0.000204192	1.180451161	0.590225581
Total Emissions in pounds									11.89184827
Equivalent Gallons (vapor)									1.930494849

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: July 17, 2023

		Well Designation:			
		DMW-1	MW-1	RW-1	
Time	Elapsed Time				
7/17/2023 - 11:00	0.0	7.0	7.0	6.5	
11:30	0.5	7.0	7.0	6.5	
12:00	1.0	7.5	7.5	7.0	
12:30	1.5	8.0	8.0	7.5	
13:00	2.0	8.5	8.5	8.0	
13:30	2.5	9.0	9.0	8.5	
14:00	3.0	9.5	9.5	9.0	
14:30	3.5	10.0	10.0	9.5	
15:00	4.0	10.5	10.5	10.0	
15:30	4.5	11.0	11.0	10.5	
16:00	5.0	11.0	11.0	11.0	
16:30	5.5	11.0	11.0	11.0	
17:00	6.0	11.0	11.0	11.0	
17:30	6.5	11.0	11.0	11.0	
18:00	7.0	11.0	11.0	11.0	
18:30	7.5	11.0	11.0	11.0	
19:00	8.0	11.0	11.0	11.0	

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA

Site Name: Circle K
 Site Location: 4315 Savannah Highway, Ravenel, SC
 SCDHEC UST Permit #
 Date: July 17, 2023

DIFFERENTIAL PRESSURE DATA

READINGS DONE EVERY 2 HOURS		Well Designation:			
		RW-7	MW-33		
Date / Time	Elapsed Time	Differential Pressure Readings (inches of water)			
7/17/2023 - 13:00	2.0	0.73	0.21		
15:00	4.0	1.04	0.08		
17:00	6.0	1.00	0.11		
19:00	8.0	1.24	0.28		

GROUNDWATER DRAWDOWN DATA

		Well Designation:			
		RW-7	MW-33		
Time	Elapsed Time	Depth to Liquid (feet below of casing):			
Prior to AFVR		6.91	6.68		
End of Event		7.34	7.15		
Maximum Change:		0.43	0.47		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072			Generator's Site Address (if different than mailing address) Circle K 4315 Savannah Hwy Ravenel, SC			
Generator's Phone:						
6. Transporter 1 Company Name VERCO			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Water Recovery 511 Old Mount Holly Rd Goose Creek, SC 29609			U.S. EPA ID Number			
Facility's Phone:						
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
1. Non-RCRA, Non-DOT Regulated Material Profile # 10658-1038 PCW			1	TT	800	G
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Offoror's Printed/Typed Name Bill Atkins			Signature <i>WS Atkins</i>		Month	Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: _____ Date leaving U.S.: _____			
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Christopher Scott Jr			Signature <i>CS</i>		Month	Day Year
Transporter 2 Printed/Typed Name			Signature		Month	Day Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection.						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name David White			Signature <i>D White</i>		Month	Day Year
					7	15 23

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
DATE: 7/18/2023

Date	Time (h:mm)	Extraction Well				MMPE Unit Exhaust			Offgas Velocity Ft/min	Water Vapor (%)	Flow Rate (DSCFM)				
		RW-5	MMW-6	RW-9	RW-6	Head Vacuum (In. Hg)	Relative Humidity	Temp (°F)				Pretreatment Conc. (ppm)			
7/18/2023	9:00	11.0	12.0	10.0	11.0				11.0	160	379.5		2600	0.03	105.21
	9:30	11.0	12.0	10.0	11.0				10.5	170	386.2		2600	0.03	103.54
	10:00	11.0	12.0	10.0	11.0				10.3	180	403.6		2600	0.04	100.87
	10:30	11.0	12.0	10.0	11.0				10.1	185	368.1		2600	0.04	100.09
	11:00	11.0	12.0	10.0	11.0				9.2	195	332.4		2600	0.04	98.56
	11:30	11.0	12.0	10.0	11.0				8.5	200	303.9		2600	0.04	97.81
	12:00	11.0	12.0	10.0	11.0				8.4	200	287.8		2600	0.04	97.81
	12:30	11.0	12.0	10.0	11.0				7.9	205	295.3		2600	0.04	97.08
	13:00	11.0	12.0	10.0	11.0				7.6	205	279.5		2600	0.04	97.08
	13:30	11.0	12.0	10.0	11.0				7.8	205	261.0		2600	0.04	97.08
	14:00	11.0	12.0	10.0	11.0				7.8	205	236.7		2600	0.04	97.08
	14:30	11.0	12.0	10.0	11.0				8.1	200	228.3		2600	0.04	97.81
	15:00	11.0	12.0	10.0	11.0				7.5	205	219.9		2600	0.04	97.08
	15:30	11.0	12.0	10.0	11.0				7.6	205	207.6		2600	0.04	97.08
	16:00	11.0	12.0	10.0	11.0				7.5	205	194.8		2600	0.04	97.08
	16:30	11.0	12.0	10.0	11.0				8.0	200	185.5		2600	0.04	97.81
	17:00	11.0	12.0	10.0	11.0										
Well Gauging Data:															
Well No.	Diameter (in)	Total Depth (ft)	Target Slinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Before AFVR Event	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	After AFVR Event				
RW-5	4.00		7.00	3.95	4.66	0.71		0.00	6.93	0.00					
MMW-6	2.00		7.00	4.32	4.81	0.49		0.00	7.04	0.00					
RW-9	4.00		7.00	4.32	4.51	0.19		0.00	7.13	0.00					
RW-6	4.00		7.00	3.71	3.84	0.13		0.00	7.10	0.00					
Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)															
Client: Atlas Velocity - The rate at which air flows is measured at the blower discharge piping															
Equipment Operator: JGC/J Temperature - The temperature of the air stream exiting the blower discharge piping															
Blower Discharge I.D. 3 inches Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping															
Water Vapor In % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)															
Flow rate = (1 - water vapor)(velocity)(pipe diameter)(2)(3.14)(528/RTemp + 460)															
Total Gallons Extracted											1,500				

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID #
DATE: 7/18/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
7/18/2023 - 9:00	0.0								
9:30	0.5	105.21	379.5	4	1518	8075.76	0.00050417	3.182508343	1.591254172
10:00	1.0	103.54	386.2	4	1544.8	8218.336	0.000513071	3.187287064	1.593643532
10:30	1.5	100.87	403.6	4	1614.4	8588.608	0.000536187	3.245040657	1.622520329
11:00	2.0	100.09	368.1	4	1472.4	7833.168	0.000489025	2.936669426	1.468334713
11:30	2.5	98.56	332.4	4	1329.6	7073.472	0.000441597	2.611371584	1.305685792
12:00	3.0	97.81	303.9	4	1215.6	6466.992	0.000403734	2.369385484	1.184692742
12:30	3.5	97.81	287.8	4	1151.2	6124.384	0.000382345	2.243860291	1.121930145
13:00	4.0	97.08	295.3	4	1181.2	6283.984	0.000392309	2.285023972	1.142511986
13:30	4.5	97.08	279.5	4	1118	5947.76	0.000371319	2.162763969	1.081381985
14:00	5.0	97.08	261.0	4	1044	5554.08	0.000346741	2.019611435	1.009805717
14:30	5.5	97.08	236.7	4	946.8	5036.976	0.000314458	1.831578646	0.915789323
15:00	6.0	97.81	228.3	4	913.2	4858.224	0.000303299	1.779962837	0.889981418
15:30	6.5	97.08	219.9	4	879.6	4679.472	0.000292139	1.701580669	0.850790334
16:00	7.0	97.08	207.6	4	830.4	4417.728	0.000275799	1.606403578	0.803201789
16:30	7.5	97.08	194.8	4	779.2	4145.344	0.000258794	1.5073575	0.75367875
17:00	8.0	97.81	185.5	4	742	3947.44	0.000246439	1.446268533	0.723134267
Total Emissions in pounds									18.05833699
Equivalent Gallons (vapor)									2.931548213

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: July 18, 2023

		Well Designation:			
		RW-5	MW-6	RW-9	RW-6
Time	Elapsed Time				
7/18/2023 - 9:00	0.0	7.0	7.0	7.0	7.0
9:30	0.5	7.0	7.0	7.0	7.0
10:00	1.0	7.0	7.0	7.0	7.0
10:30	1.5	7.0	7.0	7.0	7.0
11:00	2.0	7.0	7.0	7.0	7.0
11:30	2.5	7.0	7.0	7.0	7.0
12:00	3.0	7.0	7.0	7.0	7.0
12:30	3.5	7.0	7.0	7.0	7.0
13:00	4.0	7.0	7.0	7.0	7.0
13:30	4.5	7.0	7.0	7.0	7.0
14:00	5.0	7.0	7.0	7.0	7.0
14:30	5.5	7.0	7.0	7.0	7.0
15:00	6.0	7.0	7.0	7.0	7.0
15:30	6.5	7.0	7.0	7.0	7.0
16:00	7.0	7.0	7.0	7.0	7.0
16:30	7.5	7.0	7.0	7.0	7.0
17:00	8.0	7.0	7.0	7.0	7.0

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA

Site Name: Circle K
 Site Location: 4315 Savannah Highway, Ravenel, SC
 SCDHEC UST Permit #
 Date: July 18, 2023

DIFFERENTIAL PRESSURE DATA

READINGS DONE EVERY 2 HOURS		Well Designation:			
		RW-8	RW-10		
Date / Time	Elapsed Time	Differential Pressure Readings (inches of water)			
7/18/2023 - 11:00	2.0	1.11	0.36		
13:00	4.0	1.08	0.19		
15:00	6.0	1.21	0.24		
17:00	8.0	1.36	0.83		

GROUNDWATER DRAWDOWN DATA

		Well Designation:			
		RW-8	RW-10		
Time	Elapsed Time	Depth to Liquid (feet below of casing):			
Prior to AFVR		4.08	4.31		
End of Event		5.19	5.51		
Maximum Change:		1.11	1.20		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address <i>VERCO 2047 Industrial Blvd Lexington, SC 29092</i>		Generator's Site Address (if different than mailing address) <i>Circle K 4315 Savannah Hwy Ravenel SC</i>			
Generator's Phone:					
6. Transporter 1 Company Name <i>VERCO</i>			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address <i>US Water Recovery 511 Old Mount Holly Road Goose Creek, SC 29445</i>			U.S. EPA ID Number		
Facility's Phone:					
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. <i>Non-Hazardous, Non-Regulated PCW</i>		<i>1</i>	<i>TT</i>	<i>1500</i>	<i>6</i>
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <i>BILL AIKINS</i>			Signature <i>W & Co</i>		Month Day Year <i>7 19 23</i>
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>			Signature <i>C Scott</i>		Month Day Year <i>7 19 23</i>
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month Day Year
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name <i>Dan Akers</i>			Signature <i>D Akers</i>		Month Day Year <i>7 19 23</i>

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
DATE: 7/19/2023

Date	Time (hh:mm)	Extraction Well					MMPE Unit Exhaust					
		RW-11A	RW-11B	RW-12	Head Vacuum (in. Hg)		Relative Humidity	Temp (°F)	Pretreatment Conc. (ppm)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
7/19/2023	9:30	12.0	11.0	9.0			7.9	200	235.1	2700	0.04	101.57
	10:00	12.0	11.0	9.0			7.5	205	248.2	2700	0.04	100.81
	10:30	12.0	11.0	9.0			7.3	205	256.4	2700	0.04	100.81
	11:00	12.0	11.0	9.0			7.3	205	245.6	2700	0.04	100.81
	11:30	12.0	11.0	9.0			7.2	205	532.7	2700	0.04	100.81
	12:00	12.0	11.0	9.0			7.0	210	609.3	2700	0.04	100.06
	12:30	12.0	11.0	9.0			7.0	210	598.4	2700	0.04	100.06
	13:00	12.0	11.0	9.0			7.1	210	613.8	2700	0.04	100.06
	13:30	12.0	11.0	9.0			7.2	210	631.8	2700	0.04	100.06
	14:00	12.0	11.0	9.0			7.0	215	648.3	2700	0.04	99.32
	14:30	12.0	11.0	9.0			6.8	215	624.5	2700	0.04	99.32
	15:00	12.0	11.0	9.0			6.7	215	651.1	2700	0.04	99.32
	15:30	12.0	11.0	9.0			6.7	215	667.0	2700	0.04	99.32
	16:00	12.0	11.0	9.0			6.5	215	639.7	2700	0.04	99.32
	16:30	12.0	11.0	9.0			6.6	215	615.2	2700	0.04	99.32
	17:00	12.0	11.0	9.0			6.4	215	589.3	2700	0.04	99.32
	17:30	12.0	11.0	9.0								
Well Gauging Data:												
Well No.	Diameter (in)	Total Depth (ft)	Target Stringer Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)			
RW-11A	4.00	7.00	7.00	2.73	NA	0.00	3.94	NA	0.00			
RW-11B	4.00	7.00	7.00	2.89	NA	0.00	3.89	NA	0.00			
RW-12	4.00	7.00	7.00	2.58	2.61	0.03	0.00	4.01	0.00			
AFVR Information												
Client	Atlas	Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)										
Equipment Operator	JG/CJ	Velocity - The rate at which air flows is measured at the blower discharge piping										
Blower Discharge I.D.	3 inches	Temperature - The temperature of the air stream exiting the blower discharge piping										
		Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping										
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)										
		Flow rate = (1 - water vapor)(velocity)(pipe diameter)(2)(3.14)(528 ³ /Temp + 460)										
Total Gallons Extracted										1,050		

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID #
DATE: 7/19/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
7/19/2023 - 9:30	0.0								
10:00	0.5	101.57	235.1	4	940.4	5002.928	0.000312333	1.903478907	0.951739454
10:30	1.0	100.81	248.2	4	992.8	5281.696	0.000329736	1.994433255	0.997216628
11:00	1.5	100.81	256.4	4	1025.6	5456.192	0.00034063	2.060325087	1.030162544
11:30	2.0	100.81	245.6	4	982.4	5226.368	0.000326282	1.973540723	0.986770361
12:00	2.5	100.81	532.7	4	2130.8	11335.856	0.000707697	4.2805584	2.1402792
12:30	3.0	100.06	609.3	4	2437.2	12965.904	0.000809461	4.859546594	2.429773297
13:00	3.5	100.06	598.4	4	2393.6	12733.952	0.000794981	4.772612312	2.386306156
13:30	4.0	100.06	613.8	4	2455.2	13061.664	0.00081544	4.895436893	2.447718447
14:00	4.5	100.06	631.8	4	2527.2	13444.704	0.000839353	5.038998093	2.519499046
14:30	5.0	99.32	648.3	4	2593.2	13795.824	0.000861273	5.132295149	2.566147574
15:00	5.5	99.32	624.5	4	2498	13289.36	0.000829655	4.943881413	2.471940707
15:30	6.0	99.32	651.1	4	2604.4	13855.408	0.000864993	5.15446147	2.577230735
16:00	6.5	99.32	667.0	4	2668	14193.76	0.000886116	5.280334512	2.640167256
16:30	7.0	99.32	639.7	4	2558.8	13612.816	0.000849848	5.064212874	2.532106437
17:00	7.5	99.32	615.2	4	2460.8	13091.456	0.0008173	4.870257559	2.435128779
17:30	8.0	99.32	589.3	4	2357.2	12540.304	0.000782891	4.665219082	2.332609541
							Total Emissions in pounds		33.44479616
							Equivalent Gallons (vapor)		5.429350026

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: July 19, 2023

		Well Designation:			
		RW-11A	RW-11B	RW-12	
Time	Elapsed Time				
7/19/2023 - 9:30	0.0	4.0	4.0	4.0	
10:00	0.5	4.0	4.0	4.0	
10:30	1.0	4.5	4.5	4.5	
11:00	1.5	5.0	5.0	5.0	
11:30	2.0	5.5	5.5	5.5	
12:00	2.5	6.0	6.0	6.0	
12:30	3.0	6.5	6.5	6.5	
13:00	3.5	7.0	7.0	7.0	
13:30	4.0	7.0	7.0	7.0	
14:00	4.5	7.0	7.0	7.0	
14:30	5.0	7.0	7.0	7.0	
15:00	5.5	7.0	7.0	7.0	
15:30	6.0	7.0	7.0	7.0	
16:00	6.5	7.0	7.0	7.0	
16:30	7.0	7.0	7.0	7.0	
17:00	7.5	7.0	7.0	7.0	
17:30	8.0	7.0	7.0	7.0	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address <i>Verco 2015 7th East Street Lexington, SC 29072</i>			Generator's Site Address (if different than mailing address) <i>Circle K 4315 Savannah Hwy Ravenel, SC</i>		
Generator's Phone: <i>(803) 429-1001</i>			U.S. EPA ID Number		
6. Transporter 1 Company Name <i>Verco</i>			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address <i>Regulatory Solutions Inc 40 Pascon Ct Gaston, SC</i>			U.S. EPA ID Number		
Facility's Phone:			U.S. EPA ID Number		
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. <i>Non-RCRA, Non-DOT Regulated Material Profile # 10658-1038 PCW</i>		<i>1</i>	<i>TT</i>	<i>1050</i>	<i>G</i>
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <i>Christopher Scott Jr</i>			Signature <i>C Scott</i>		Month Day Year <i>7 19 25</i>
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>			Signature <i>C Scott</i>		Month Day Year <i>7 20 23</i>
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____					
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name <i>Samson P...</i>			Signature <i>S P...</i>		Month Day Year <i>7 20 23</i>

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

INBOUND
09:01 AM Jul/20/2023
ID: 23476
24160 1b

OUTBOUND
09:25 AM Jul/20/2023
ID: 23476
24160 1b G
15400 1b PT
8760 1b N

*18.34 =
1,050 gallons*

regulatory solutions, inc.

CUSTOMER NAME: VERCO
GENERATOR: Circle K RAVENHILL, SC
TRUCK/CONTAINER #: _____
MANIFEST #: 38708

WEIGHER (INITIALS): *[Signature]*

23476

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
DATE: 8/28/2023

Date	Time (hh:mm)	Extraction Well								MMPE Unit Exhaust					
		Head Vacuum (in. Hg)								Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-7	RW-1	MW-1	RW-2	MW-33	MW-2								
8/28/2023	11:30	10.0	13.0	12.0	15.0										
	12:00	10.0	13.0	12.0	15.0					10.1	175	259.8	2600	0.03	102.72
	12:30	10.0	13.0	12.0	15.0					9.7	183	271.4	2600	0.04	100.40
	13:00	10.0	13.0	12.0	15.0					9.0	190	264.7	2600	0.04	99.32
	13:30	10.0	13.0	12.0	15.0					9.0	194	253.4	2600	0.04	98.71
	14:00	10.0	13.0	12.0	15.0					6.3	201	239.9	2600	0.04	97.66
	14:30	10.0	13.0	12.0	15.0					6.5	200	218.7	2600	0.04	97.81
	15:00	10.0	13.0	12.0	15.0					6.1	201	204.7	2600	0.04	97.66
	15:30	10.0	13.0	12.0	15.0					6.2	200	198.3	2600	0.03	98.83
	16:00	10.0	13.0	12.0	15.0					5.9	203	184.7	2600	0.03	98.38
	16:30	10.0	13.0	12.0	15.0					5.7	205	172.6	2600	0.03	98.09
	17:00					11.0	13.0			7.4	199	512.4	2600	0.04	97.96
	17:30					11.0	13.0			7.3	198	452.7	2600	0.04	98.11
	18:00					11.0	13.0			6.5	201	434.8	2600	0.04	97.66
	18:30					11.0	13.0			6.1	200	422.6	2600	0.03	98.83
	19:00					11.0	13.0			5.8	205	416.7	2600	0.03	98.09
	19:30					11.0	13.0			5.7	205	410.9	2600	0.03	98.09

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Target Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
RW-7	4.00		11.00	7.25	7.26	0.01	0.00	9.25	0.00
RW-1	4.00		11.00	7.11	7.12	0.01	0.00	9.18	0.00
MW-1	2.00		11.00	0.00	7.25	0.00	0.00	10.15	0.00
RW-2	4.00		11.00	0.00	6.35	0.00	0.00	11.03	0.00
MW-33	2.00		11.00	7.72	7.93	0.21	0.00	9.02	0.00
MW-2	2.00		11.00	0.00	7.33	0.00	0.00	8.94	0.00

AFVR Information		Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)	Total Gallons Extracted 1,200
Client	Atlas	Velocity - The rate at which air flows is measured at the blower discharge piping	
Equipment Operator:	JG/CJ	Temperature - The temperature of the air stream exiting the blower discharge piping	
Blower Discharge I.D.	3 inches	Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping	
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)	
		Flow rate = (1 - water vapor)(velocity(pipe diameter/24)(3.14))(528°R/Temp + 460)	

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID #
DATE: 8/28/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
8/28/2023 - 11:30	0.0								
12:00	0.5	102.72	259.8	4	1039.2	5528.544	0.000345147	2.127232118	1.063616059
12:30	1.0	100.40	271.4	4	1085.6	5775.392	0.000360558	2.171940028	1.085970014
13:00	1.5	99.32	264.7	4	1058.8	5632.816	0.000351657	2.095509063	1.047754532
13:30	2.0	98.71	253.4	4	1013.6	5392.352	0.000336645	1.99378269	0.996891345
14:00	2.5	97.66	239.9	4	959.6	5105.072	0.00031871	1.867573691	0.933786846
14:30	3.0	97.81	218.7	4	874.8	4653.936	0.000290545	1.705115516	0.852557758
15:00	3.5	97.66	204.7	4	818.8	4356.016	0.000271946	1.593548706	0.796774353
15:30	4.0	98.83	198.3	4	793.2	4219.824	0.000263444	1.562169804	0.781084902
16:00	4.5	98.38	184.7	4	738.8	3930.416	0.000245376	1.448447729	0.724223864
16:30	5.0	98.09	172.6	4	690.4	3672.928	0.000229301	1.349486692	0.674743346
17:00	5.5	97.96	512.4	4	2049.6	10903.872	0.000680729	4.001037901	2.000518951
17:30	6.0	98.11	452.7	4	1810.8	9633.456	0.000601417	3.54024697	1.770123485
18:00	6.5	97.66	434.8	4	1739.2	9252.544	0.000577636	3.384831351	1.692415675
18:30	7.0	98.83	422.6	4	1690.4	8992.928	0.000561428	3.329162678	1.664581339
19:00	7.5	98.09	416.7	4	1666.8	8867.376	0.00055359	3.258001765	1.629000883
19:30	8.0	98.09	410.9	4	1643.6	8743.952	0.000545885	3.212654009	1.606327004
Total Emissions in pounds									19.32037036
Equivalent Gallons (vapor)									3.136423759

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072		Generator's Site Address (if different than mailing address) Circle K 4315 Savannah Hwy Ravenel, SC			
Generator's Phone:					
6. Transporter 1 Company Name VERCO		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Water Recovery		U.S. EPA ID Number			
Facility's Phone:					
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Hazardous, Non-DOT DCW		1	TT	1000 9	
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name James [Signature]				Signature [Signature]	
				Month	Day
				8	29
				Year	23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name James [Signature]				Signature [Signature]	
				Month	Day
				8	29
				Year	23
Transporter 2 Printed/Typed Name				Signature	
				Month	Day
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name David Ward				Signature [Signature]	
				Month	Day
				8	29
				Year	23

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: 8/28/2023

		Well Designation:			
		RW-7	RW-1	MW-1	RW-2
Time	Elapsed Time				
8/28/2023 - 11:30	0.0	11.0	11.0	11.0	11.0
12:00	0.5	11.0	11.0	11.0	11.0
12:30	1.0	11.0	11.0	11.0	11.0
13:00	1.5	11.0	11.0	11.0	11.0
13:30	2.0	11.0	11.0	11.0	11.0
14:00	2.5	11.0	11.0	11.0	11.0
14:30	3.0	11.0	11.0	11.0	11.0
15:00	3.5	11.0	11.0	11.0	11.0
15:30	4.0	11.0	11.0	11.0	11.0
16:00	4.5	11.0	11.0	11.0	11.0
16:30	5.0	11.0	11.0	11.0	11.0

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number			
5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072		Generator's Site Address (if different than mailing address) 4315 Circle K Savannah Hwy Ravenel, SC					
Generator's Phone:							
6. Transporter 1 Company Name VERCO		U.S. EPA ID Number					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address Waste Water Recovery 511 Old Mount Holly Rd Goose Creek, SC 29445		U.S. EPA ID Number					
Facility's Phone:							
GENERATOR	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non-Hazardous, Non-DOT PCW		I	TT	1200	5	1200
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information							
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Generator's/Officer's Printed/Typed Name James Hartson				Signature <i>[Signature]</i>		Month Day Year 8 28 23	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
16. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name James Hartson				Signature <i>[Signature]</i>		Month Day Year 8 28 23	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.							
Printed/Typed Name Don Wald				Signature <i>[Signature]</i>		Month Day Year 8 29 23	

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
DATE: 8/29/2023

Date	Time (hh:mm)	Extraction Well								MMPE Unit Exhaust					
		Head Vacuum (in. Hg)								Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-5	MW-6	RW-9	RW-6										
8/29/2023	9:30	10.0	16.0	19.0	7.0										
	10:00	10.0	16.0	19.0	7.0				10.0	160	613.4		2400	0.02	98.11
	10:30	10.0	16.0	19.0	7.0				9.3	168	608.7		2400	0.02	96.86
	11:00	10.0	16.0	19.0	7.0				8.7	178	594.1		2400	0.03	94.37
	11:30	10.0	16.0	19.0	7.0				7.1	185	574.3		2400	0.03	93.35
	12:00	10.0	16.0	19.0	7.0				5.9	200	553.8		2400	0.03	91.23
	12:30	10.0	16.0	19.0	7.0				5.7	201	516.7		2400	0.03	91.09
	13:00	10.0	16.0	19.0	7.0				5.0	205	491.6		2400	0.03	90.54
	13:30	10.0	16.0	19.0	7.0				4.8	208	478.5		2400	0.03	90.14
	14:00	10.0	16.0	19.0	7.0				4.7	210	441.8		2400	0.03	89.87
	14:30	10.0	16.0	19.0	7.0				4.6	210	438.7		2400	0.03	89.87
	15:00	10.0	16.0	19.0	7.0				4.8	215	403.6		2400	0.03	89.20
	15:30	10.0	16.0	19.0	7.0				4.3	210	377.7		2400	0.03	89.87
	16:00	10.0	16.0	19.0	7.0				4.5	213	361.8		2400	0.03	89.47
	16:30	10.0	16.0	19.0	7.0				4.7	212	343.2		2400	0.03	89.60
	17:00	10.0	16.0	19.0	7.0				4.7	215	309.7		2400	0.03	89.20
	17:30	10.0	16.0	19.0	7.0				4.8	216	284.6		2400	0.03	89.07

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Target Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
RW-5	4.00		9.00	5.00	5.40	0.40	0.00	7.93	0.00
MW-6	2.00		9.00	5.13	5.16	0.03	0.00	8.75	0.00
RW-9	4.00		9.00	0.00	4.80	0.00	0.00	7.70	0.00
RW-6	4.00		9.00	0.00	5.30	0.00	0.00	5.70	0.00

AFVR Information		Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)	Total Gallons Extracted
Client	Atlas	Velocity - The rate at which air flows is measured at the blower discharge piping	1,600
Equipment Operator:	JG/CJ	Temperature - The temperature of the air stream exiting the blower discharge piping	
Blower Discharge I.D.	3 inches	Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping	
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)	
		Flow rate = (1 - water vapor)(velocity)(pipe diameter/24)2(3.14)(528°R/Temp + 460)	

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID #
DATE: 8/29/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
8/29/2023 - 9:30	0.0								
10:00	0.5	98.11	613.4	4	2453.6	13053.152	0.000814908	4.797265751	2.398632875
10:30	1.0	96.86	608.7	4	2434.8	12953.136	0.000808664	4.699864675	2.349932338
11:00	1.5	94.37	594.1	4	2376.4	12642.448	0.000789268	4.469163339	2.234581669
11:30	2.0	93.35	574.3	4	2297.2	12221.104	0.000762964	4.273330234	2.136665117
12:00	2.5	91.23	553.8	4	2215.2	11784.864	0.000735729	4.02713668	2.01356834
12:30	3.0	91.09	516.7	4	2066.8	10995.376	0.000686441	3.751667628	1.875833814
13:00	3.5	90.54	491.6	4	1966.4	10461.248	0.000653096	3.547950751	1.773975376
13:30	4.0	90.14	478.5	4	1914	10182.48	0.000635692	3.437896782	1.718948391
14:00	4.5	89.87	441.8	4	1767.2	9401.504	0.000586936	3.16474165	1.582370825
14:30	5.0	89.87	438.7	4	1754.8	9335.536	0.000582818	3.14253545	1.571267725
15:00	5.5	89.20	403.6	4	1614.4	8588.608	0.000536187	2.869688376	1.434844188
15:30	6.0	89.87	377.7	4	1510.8	8037.456	0.000501778	2.705574743	1.352787371
16:00	6.5	89.47	361.8	4	1447.2	7699.104	0.000480655	2.580125626	1.290062813
16:30	7.0	89.60	343.2	4	1372.8	7303.296	0.000455945	2.451124438	1.225562219
17:00	7.5	89.20	309.7	4	1238.8	6590.416	0.00041144	2.202037884	1.101018942
17:30	8.0	89.07	284.6	4	1138.4	6056.288	0.000378094	2.020577691	1.010288846
Total Emissions in pounds									27.07034085
Equivalent Gallons (vapor)									4.394535852

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: 8/29/2023

		Well Designation:			
		RW-5	MW-6	RW-9	RW-6
Time	Elapsed Time				
8/29/2023 - 9:30	0.0	9.0	9.0	9.0	9.0
10:00	0.5	9.0	9.0	9.0	9.0
10:30	1.0	9.0	9.0	9.0	9.0
11:00	1.5	9.0	9.0	9.0	9.0
11:30	2.0	9.0	9.0	9.0	9.0
12:00	2.5	9.0	9.0	9.0	9.0
12:30	3.0	9.0	9.0	9.0	9.0
13:00	3.5	9.0	9.0	9.0	9.0
13:30	4.0	9.0	9.0	9.0	9.0
14:00	4.5	9.0	9.0	9.0	9.0
14:30	5.0	9.0	9.0	9.0	9.0
15:00	5.5	9.0	9.0	9.0	9.0
15:30	6.0	9.0	9.0	9.0	9.0
16:00	6.5	9.0	9.0	9.0	9.0
16:30	7.0	9.0	9.0	9.0	9.0
17:00	7.5	9.0	9.0	9.0	9.0
17:30	8.0	9.0	9.0	9.0	9.0

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072			Generator's Site Address (if different than mailing address) Circle K 4315 Savannah Hwy Ravenel, SC		
Generator's Phone:			U.S. EPA ID Number		
6. Transporter 1 Company Name VERCO			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address US Water Recovery			U.S. EPA ID Number		
Facility's Phone:			U.S. EPA ID Number		
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Hazardous, Non-DOT DCW		1	TT	1000 9	
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <i>James [Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 8 29 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>James [Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 8 29 23
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month Day Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name <i>David Ward</i>			Signature <i>[Signature]</i>		Month Day Year 8 29 23

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit #
Date: 8/30/2023

		Well Designation:			
		RW-11A	RW-11B	RW-12	
Time	Elapsed Time				
8/30/2023 - 9:30	0.0	7.0	7.0	7.0	
10:00	0.5	7.0	7.0	7.0	
10:30	1.0	7.0	7.0	7.0	
11:00	1.5	7.0	7.0	7.0	
11:30	2.0	7.0	7.0	7.0	
12:00	2.5	7.0	7.0	7.0	
12:30	3.0	7.0	7.0	7.0	
13:00	3.5	7.0	7.0	7.0	
13:30	4.0	7.0	7.0	7.0	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 39232
	5. Generator's Name and Mailing Address Verco 2047 Industrial Blvd Lexington, SC. 29072		Generator's Site Address (if different than mailing address) 4315 Savannah Hwy Atlas Ravenel, SC. 29470	
6. Transporter 1 Company Name Verco		U.S. EPA ID Number		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Regulatory Solutions 40 Pascolet Gaston, SC.		U.S. EPA ID Number		
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. NON-RCRA, NON-DOT Regulated Prof. IC# 10658-1038 PCW Material		1	TT	719
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information Atlas				
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name James Hurt Jr.		Signature 		Month Day Year 8 30 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name James Hurt Jr.		Signature 		Month Day Year 8 31 23
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number				
17c. Signature of Alternate Facility (or Generator) Month Day Year				
18. Designated Facility Owner or Operator; Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name Preston Garner		Signature 		Month Day Year 8 31 23

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

INBOUND
09:41 AM Aug/31/2023
ID: 23889
21900 lb

OUTBOUND
10:25 AM Aug/31/2023
ID: 23889
21900 lb G
15900 lb FT
6000 lb N

18.34 = 719 gallons

regulatory solutions, inc.

CUSTOMER NAME: VERCO
GENERATOR: 4315 SEVENMORN HWY
TRUCK/CONTAINER #: _____
MANIFEST #: 39232

WEIGHER (INITIALS): Armen

23889