

July 15, 2025

Mr. Billy Meyer
North Carolina Department of Environmental Quality
Division of Waste Management, Superfund Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: Risk Management Plan
Avalon Cleaners
686 Cary Towne Boulevard
Cary, Wake County, North Carolina
DSCA Site ID DC920037

Dear Mr. Meyer:

ATC Associates of North Carolina, P.C. (ATC) is pleased to submit the enclosed Risk Management Plan (RMP) for the above referenced site. The results of a previous risk assessment indicated that contaminant concentrations at the site do not pose an unacceptable risk. The primary purpose of this RMP is to ensure that the assumptions made during the risk assessment remain valid in the future. Based on the documentation outlined in this report, ATC recommends issuance of a No Further Action letter for the site with the implementation of Land Use Controls.

If you have questions or require additional information, please do not hesitate to contact Ashley Offer at (919) 871-0999.

Sincerely,
ATC Associates of North Carolina, P.C.



Ashley M. W. Offer, P.G.
Program Manager

Risk Management Plan

Avalon Cleaners

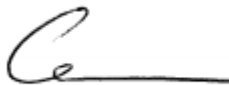

686 Cary Towne Boulevard
Cary, Wake County, NC
DSCA Site ID DC920037

Prepared By:


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July 15, 2025

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1.0 INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC) has prepared this Risk Management Plan (RMP) for the former Avalon Cleaners site in Cary, Wake County, North Carolina, on behalf of the North Carolina Dry-Cleaning Solvent Cleanup Act (DSCA) Program. Avalon Cleaners formerly operated within a tenant space addressed as 686 Cary Towne Boulevard in Cary, North Carolina. The source property address is 682 Cary Towne Boulevard and is an 8.850-acre lot developed with four commercial buildings: an outdoor strip mall with seven tenant spaces, Harris Teeter grocery store, a three-story office building, and an Outback Steakhouse restaurant (Parcel Identification Number (PIN) 0763-97-5022). The former dry-cleaning activities occurred in the outdoor strip mall in the tenant space now occupied by Posh Nail & Spa. Impacts associated with the Avalon Cleaners site (herein referred to as the “site”) are limited to a 2.629-acre northwestern portion of the source property where the dry-cleaning facility was formerly located. A map showing the site location is included as *Figure 1*.

This RMP is intended to comply with the requirements of the DSCA (N.C.G.S. 143-215.104A *et seqs*) and promulgated rules and follows the outline provided in the DSCA Program’s risk-based corrective action (RBCA) guidance.

2.0 OBJECTIVES OF RISK MANAGEMENT PLAN (RMP)

ATC completed assessment activities at the site which indicated the following areas of impact attributed to releases at the site:

- Concentrations of tetrachloroethylene (PCE) above unrestricted use levels in soil on the source property.
- Concentrations of PCE, trichloroethylene (TCE), cis-1,2-dichloroethylene (DCE), vinyl chloride, benzene, naphthalene, toluene, xylenes (total), 1,1,2-trichloroethane, acetone, chloroform, methylene chloride, 2-hexanone, 1,2,4-trimethylbenzene, bromodichloromethane, n-propylbenzene, and trans-1,3-dichloropropene above unrestricted use levels in groundwater on the source property.

ATC completed a risk assessment for the site in accordance with the DSCA Program's risk assessment procedures in October, 2024. The results of the risk assessment indicate there are risks that exceed target risk levels on the source property. These risks will be managed using site-specific land-use conditions that have been selected as part of the risk assessment evaluation and which require an RMP. Thus, the objective of the RMP is to ensure that those site-specific land-use conditions remain valid in the future.

3.0 SUMMARY OF RISK ASSESSMENT REPORT

Based on documented soil and groundwater impacts above unrestricted use levels, ATC completed a risk assessment for the site on October 3, 2024. This section summarizes the final risk assessment findings, which resulted in the recommendation for no further action status with land-use controls placed on the property.

Avalon Cleaners performed dry-cleaning operations on-site from 1985 to 2012. The dry-cleaner utilized PCE while in operation. The original release scenario for the site is unknown. Evidence of subsurface impacts from dry-cleaning practices was first identified during a Phase II Environmental Site Assessment (ESA) performed by LandAmerica Assessment Corporation. According to the ESA, submitted on July 21, 2006, PCE-impacted soil and groundwater were identified at the site. Furthermore, PCE concentrations in groundwater were indicative of dense non-aqueous phase liquid (DNAPL). The site was accepted into the DSCA Program in November 2006. Although soil and groundwater impacts were first identified in 2006, in August 2008 significant increases in dissolved-phase PCE concentrations were observed in groundwater. These increases prompted a compliance investigation of the dry-cleaning facility and on June 16, 2009, a compliance inspection report documented numerous violations on management practices. The management practices potentially caused a separate release scenario inside the facility and a release was documented outside of the facility in the rear. In 2012, the dry-cleaner was evicted from the property.

To provide site background regarding the data used for the risk assessment, analytical data for groundwater, soil, indoor air, sub-slab soil gas, soil-gas, and surface water and water supply wells are depicted on **Figures 3, 4, 5, 6, 7, and 8**, respectively. Proposed land-use control areas are depicted on **Figure 9**. The identified complete exposure pathways were evaluated using the NCDEQ's Risk Calculator. The protection of groundwater use and protection of surface water pathways were also evaluated as further discussed in the following sections.

Exposure Unit #1

The first step in the risk assessment process consisted of developing an exposure model. One exposure unit was assigned to evaluate current and future exposure pathways for the site. Exposure Unit #1 encompasses the northwestern portion of the source property where the former dry-cleaner and soil and groundwater source areas are located. The portion of the property encompassing Exposure Unit #1 is developed with a shopping center with seven tenant spaces. The former dry-cleaning tenant space is occupied by Posh Nail & Spa. The boundary of the exposure unit is depicted on **Figure 2**. Complete exposure pathways identified for this exposure unit include indoor inhalation of contaminants through vapor intrusion (VI pathway) and soil exposure (combined pathways including ingestion, dermal contact, and outdoor inhalation of volatile constituents of concern [COCs] and particulates) by a current or future resident or non-residential worker. ATC conservatively used the maximum contaminant concentrations detected post-remediation for (sub-slab/soil gas, indoor air) within the exposure unit for the exposure point concentrations (EPCs). Post-remediation soil sampling was not performed therefore the highest COC concentrations observed were used as the EPC. The exposure pathways were modeled using the NCDEQ Risk Calculator.

Indoor Inhalation Exposure Pathway (VI pathway):

- To evaluate risk associated with the current VI pathway, ATC utilized the most recent sample collected in the former dry-cleaning facility in September 2021, after the final remedial injection event, as the EPC for modeling. The results of the risk evaluation indicated no exceedances of acceptable risk levels for a current resident or non-residential worker.

- Future risk was modeled using the highest post-injection (see **Section 4.1.2**) COC concentrations observed in sub-slab and soil gas data as the EPC. The model incorporates default attenuation factors intended to capture reasonable future vapor intrusion scenarios. The results of the modeling indicated exceedances of acceptable risk levels for a future resident and non-residential worker.

Soil Combined Pathway

- Soil samples in the source area were collected between 2006 and 2008, prior to reported compliance violations in 2009 (most notably associated with discharging of contact water onto the asphalt surface behind the cleaner from a malfunctioning mister). Potential impacts to soil COC concentrations from the contact water were not investigated prior to the soil injection. However, the discharged separator water migrated to a storm drain and the anticipated “release scenario” was that contact water in the storm drain leaked from the underground piping near the storm drain grate and contaminated underlying soil and groundwater. Additionally, this area is underlain with utilities and substantial soil sampling in this area was not performed and sampling beneath the stormwater drain was not feasible. It should be noted that concentration reductions in soil-gas samples SV-4 and SV-5, collected within the impacted soil plume following injection events performed in June 2013, June 2015, August 2016, suggest that the contaminant mass in the soil receiving injectate (five feet below ground surface [bgs] to the water table) has been reduced although not verified through post-remediation sampling. Post-injection soil sampling beneath five feet in the injection area was also not conducted due to the reasons noted above and also the inability to reliably implement an effective sampling strategy to capture mass reduction in the affected soil volume. With consideration for the above, the sample with the highest COC concentrations observed above the historical high water table across the site was determined to be an appropriate EPC to model the current and future soil combined pathway risk to a resident or non-residential worker. Soil samples with higher contaminant concentrations were detected at depths below the historical high water table but were not used due to the influence of groundwater impacts on soil concentrations per current DSCA soil characterization guidance. Under the current and future exposure scenarios, the results

of the risk assessment indicated no exceedances of acceptable risk levels for a resident or non-residential worker.

Protection of Groundwater Use – Contaminant Migration Pathway

The protection of groundwater use pathway was modeled assuming a Point of Exposure (POE) at the nearest property boundary located downgradient of the plume's leading edge and on which impacts have not been observed. The POE was placed approximately 250 feet downgradient of the soil and groundwater source areas and is shown on *Figures 2, 3, and 4*. EPCs were calculated using selected soil and groundwater samples located in the area of maximum contaminant concentrations in the source area. An explanation for the soil COC data utilized for EPCs is noted above in the Soil Combined Pathway section. For the groundwater, the highest COC concentration observed over the last six sampling events, performed between November 2017 (after the injection activities concluded) and January 2024, for source area wells MW-2, MW-2I, and MW-2D was used as the EPC. This was deemed appropriate as the injection activities substantially altered the biogeochemistry of the aquifer and the groundwater is at a new equilibrium. An Assessment Letter Report was submitted September 13, 2024, outlining 2023 and 2024 groundwater sampling activities and documentation for plume stability and delineation.

Modeling results for the protection of groundwater use evaluation indicated exceedances of Site Specific Target Levels (SSTLs) for source soil and source groundwater. With regard to modeled exceedances of Title 15A NCAC 02L .0202 Groundwater Quality Standards (2L Standards) at the POE using source groundwater exposure point concentrations, plume stability monitoring performed after the injection events (documented in a Groundwater Monitoring Report submitted October 2018 and Assessment Letter Report submitted September 2024) and bedrock delineation activities (documented in a Groundwater Monitoring Report submitted September 2020) indicates the groundwater plume is stable and does not extend beyond the most downgradient monitoring wells. Based on ATC's evaluation of all site characterization data and understanding of the CSM, it appears the groundwater plume is adequately defined and stable and that the plume's distribution, fate and transport, and interaction with receptors has been adequately assessed and characterized to meet standards of 15 NCAC 02S .0504 and meets stability criteria under 15 NCAC 02S .0509. As such the protection of groundwater use pathway is not a significant concern, assuming that land

use controls are implemented for the “groundwater use control area” depicted in “**Figure 9**”. Regarding source soil concentrations, PCE is the only compound which exceeded its SSTL of 0.56 milligrams per kilogram (mg/kg). If site conditions do not change, the current plume stability is not expected to change and therefore the stability evaluation of a sufficiently characterized plume is considered more relevant than the modeling results when evaluating this pathway. Some of the modeling inputs are conservative parameters, specifically rate of infiltration, that may not be representative of the current land cover (i.e., asphalt, concrete). Such land cover would reasonably minimize infiltration in the source area and likely affect the documented plume migration at the site. However, because rate of infiltration is a significant variable in the leaching of contamination from soil and subsequent migration in groundwater, it is reasonable that plume expansion could occur as indicated by the model in the event that site conditions were altered such that infiltration rates increased in area of source contamination. Therefore, it is recommended that land-use controls be utilized to maintain current infiltration conditions in the areas of impacted soils exceeding the SSTLs of 0.56 mg/kg.

Protection of Surface Water – Contaminant Migration Pathway

The protection of surface water pathway was evaluated assuming a POE at the nearest downgradient surface water body, a tributary of Walnut Creek (Class C; Nutrient Sensitive) located approximately 990 feet downgradient of the plume. The same exposure point concentrations used to model protection for groundwater use were used to model for the protection of surface water. Modeling results for the protection of surface water evaluation indicated exceedances of SSTLs for source groundwater. Plume stability monitoring performed after the injection events (documented in a Groundwater Monitoring Report submitted October 2018 and Assessment Letter Report submitted September 2024) and bedrock delineation activities (documented in a Groundwater Monitoring Report submitted September 2020) indicates the groundwater plume is stable and does not extend beyond the most downgradient monitoring wells.

The plume stability monitoring data and surface water sampling data are considered more relevant for making risk management decisions, which are predicated on meeting 15 NCAC 02S .0504 characterization and stability criteria, as they are based on the site conditions and characteristics.

Based on this evaluation, the protection of surface water pathway is not considered a significant concern. Therefore, no additional land-use controls are recommended for this exposure pathway.

Based on the results of this risk assessment, ATC concludes that the risks associated with the contamination at the site can be managed through implementation of land-use controls for the source property, as detailed in this RMP. Land-use controls proposed for the site are discussed in **Section 6.0**.

4.0 REMEDIAL ACTION PLAN

4.1 Assessment Activities and Interim Actions

The source property is an 8.850-acre lot developed with four commercial buildings: an outdoor strip mall with seven tenant spaces, Harris Teeter grocery store, a three-story office building, and an Outback Steakhouse restaurant. The former dry-cleaning activities occurred in the outdoor strip mall in the tenant space now occupied by Posh Nail & Spa. Impacts associated with the Avalon Cleaners are limited to a 2.629-acre northwestern portion of the source property where the dry-cleaning facility was formerly located. The area is primarily characterized by general commercial, office, and residential use. The property is accessed from the north by Cary Towne Boulevard, from the west by Walnut Street, and from the east by SW Maynard Road. The area topography slopes downward towards the north-northwest. A map showing the site location is included as *Figure 1*.

Evidence of subsurface impacts from dry-cleaning practices was first identified during a Phase II ESA performed by LandAmerica. According to the ESA, submitted on July 21, 2006, PCE-impacted soil and groundwater were identified at the site. Furthermore, PCE concentrations in groundwater were indicative of DNAPL. A Prioritization Assessment Report was completed by Land America on September 5, 2006, discussing advancement of two additional soil borings inside the building and the installation and sampling of four Type II monitoring wells. Soil analytical results indicate PCE concentrations above the Tier 1 Risk-Based Screening Level and groundwater analytical results for the monitoring wells indicate PCE concentrations above the 2L Standard. The site was accepted into the DSCA Program in November 2006.

4.1.1 Soil Assessment

Following acceptance into the DSCA Program, additional soil sampling activities to assess impacts are documented in a March 2007 Prioritization Assessment Report for sampling in January 2007, a March 2009 Assessment Report for sampling in August and September 2008, and a September 2024 Assessment Letter Report documenting sampling in March 2023. Based on the soil sampling results collected to date, the extent of impacted soil is delineated, limited to the source property, and localized in areas inside the former dry-cleaning space and behind the shopping center. Soil delineation was not performed inside the former dry-cleaning space or in the Walnut Creek Animal Hospital to the west of the source area due to the tile flooring in Avalon Cleaners and the crawlspace beneath the animal hospital; however, exterior samples confirmed impacts do not extend beyond these spaces. The extent of impacted soil associated with the dry-cleaning solvent release at the site are adequately characterized per Title 15A NCAC 02S .0504.

4.1.2 Groundwater Assessment and Remediation

Groundwater sampling at the site was performed between March 2007 and January 2024. In June 2013, a groundwater injection remediation event was performed behind the former Avalon Cleaners to address soil and groundwater impacts. During the event, 20 temporary direct-push points were advanced into groundwater at depths ranging from 15 to 60 feet bgs for injection of a remedial solution to address impacts in the surficial aquifer. Emulsified zero valent iron (EZVI) was injected into the unsaturated/vadose zone soils through 12 direct-push points at depths ranging from 5 to 15 feet bgs to address soil impacts. ATC conducted several groundwater monitoring events to determine the effectiveness of the injection. A Groundwater Monitoring Report was submitted on April 1, 2015, documenting the subsequent sampling activities and suggested that the injection was effective in significantly reducing PCE concentrations in the injection area in the shallow surficial aquifer; however, an additional injection event in the intermediate zone of the surficial aquifer was warranted. In June 2015 a second injection event was performed. During the event, nine temporary direct-push injection points were advanced to depths ranging from 32 to 44 feet bgs, in the intermediate zone of the surficial aquifer. Anaerobic Biochem Plus ZVI (ABC+) was injected into the groundwater through the temporary direct-push points. Results showed a further reduction and stabilization of PCE concentrations in the vicinity of MW-1 and MW-11.

Although PCE levels were reduced in MW-2I, they remained high. The post-secondary injection sampling events were documented in a Groundwater Monitoring Report dated December 9, 2016, Groundwater Monitoring Report. A final injection event was performed in August 2016. During the event, four temporary direct-push injection points were advanced surrounding MW-2I in the intermediate zone of the surficial aquifer. ABC Ole+ was injected into groundwater at depths ranging from 31 to 45 feet bgs. Data collected from pre- and post-injection monitoring activities suggest that the injections were effective in significantly reducing PCE concentrations in the injection area and stabilizing the groundwater plume. PCE concentrations were reduced in source area wells MW-2 and MW-2I by 99% and 90%, respectively. The post-tertiary injection sampling events were documented in a December 1, 2017, Groundwater Monitoring Report. Post-injection soil sampling was not conducted due to the inherently uneven distribution of EZVI in soil post-injection events and the inability to reliably implement a cost-effective sampling strategy to capture mass reduction in the affected soil volume.

Plume stability monitoring was performed between November 2017 and February 2018 after the injection events were conducted (documented in an October 2018 Groundwater Monitoring Report) and between July 2019 and July 2020 following bedrock delineation (documented in a September 2020 Groundwater Monitoring Report). Additional monitoring activities were performed between March 2023 and January 2024 to confirm plume stability (documented in a September 2024 Assessment Letter Report). ATC reviewed concentration trends for the source area wells for the last six sampling events, performed between November 2017 (after the injection activities concluded) and January 2024. This was deemed appropriate as the injection activities substantially altered the biogeochemistry of the aquifer and the groundwater was at a new equilibrium. When reviewing concentrations trends in the new equilibrium, there are no increasing concentration trends. Mann-Kendall analysis was also performed for the total molarity of PCE and daughter-products for wells located in the injection area. Based on the trends, there is no discernable molarity trend for MW-2 and MW-2D and a stable trend for MW-2I. Although the Mann-Kendall indicates “no trend” for the molarity in MW-2 and MW-2D, the total moles of PCE and daughter products in MW-2 decreased from 0.1 micromoles per liter ($\mu\text{mol/L}$) in June 2013 to 0.0003 $\mu\text{mol/L}$ in January 2024 and the peak total moles in MW-2D occurred in June 2016, after the final injection event, at 0.0017 $\mu\text{mol/L}$ and has consistently decreased since then with a

value of 0.0008 $\mu\text{mol/L}$ during the last time the well was sampled in March 2023. Based on assessment activities, the groundwater plume is adequately characterized per 15A NCAC 02S .0504, confined to the source property and meets stability criteria under 15A NCAC 02S .0509.

4.1.3 Vapor Intrusion Assessment

Initial vapor intrusion assessment activities were initiated in August 2009 and concluded in June 2023. In August 2009, soil-gas samples SV-1 through SV-6 were collected. The maximum concentration of PCE was detected in SV-6 at 26,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). As a result, additional investigation in the shopping center was warranted.

4.1.3.1 Indoor Air and Sub-Slab Soil Gas

Nine air samples were collected from the source property in January 2010. Two samples each were collected in the dry-cleaner (Avalon Front and Avalon Back), the Euro-Mediterranean Market (EMG 1 and EMG 2), the North American Video/Gamers Armory (NAV 1 and NAV 2), and from a vacant space (VAC 1 and VAC 2). One outdoor background sample was also collected (BG). The sampling results indicated exceedances of both residential and non-residential risks for five of the indoor air samples. In addition, 11 sub-slab soil gas samples were collected in January 2010 from the shopping center. Samples were collected from the vacant tenant space (SS 1 through SS 4), the Euro-Mediterranean Market (SS 5 and SS 6), the Avalon Cleaners (SS 7 through SS 9), and from the North American Video/Gamers Armory (SS 10 and SS 11). Concentrations of detected compounds in the sub-slab soil gas samples indicated there were no exceedances of residential or non-residential risk levels from inhalation exposure through vapor intrusion.

Additional indoor air sampling was performed in February 2010 to confirm exceedances of both residential and non-residential risks identified in January 2010. One sample each was collected in the dry-cleaner (Avalon), the Euro-Mediterranean Market (EMG 2), the North American Video/Gamers Armory (NAV), and from the vacant space (VAC). The sampling results indicated exceedances of residential and non-residential risks. It was later determined the source of the indoor air exceedances was caused by the dry-cleaning activities; however, risk exceedances from either vapor intrusion or the dry-cleaner could not be ascertained at that time. Therefore, in April

2010 sub-slab depressurization systems (SSDSs) were installed in the former Avalon Cleaners and the vacant space.

Subsequent indoor air sampling was performed in May 2010 to determine if the SSDSs were effective in reducing contaminant concentrations. One sample each was collected in the dry-cleaner (Avalon), the Euro-Mediterranean Market (EMG 2), and the North American Video/Gamers Armory (NAV). The indoor air results indicated exceedances of risk levels for inhalation exposure under both residential and non-residential scenarios.

Thirteen sub-slab soil gas samples were collected from the shopping center in July 2010. Samples were collected from the vacant tenant space (SS-1 Vacant through SS-3 Vacant), Euro-Mediterranean Market (SS-1 A&S Market and SS-2 A&S Market), Avalon Cleaners (SS-1 Avalon Cleaning through SS-3 Avalon Cleaning), and North American Video/Gamers Armory (SS-1 Gamers Armory through SS-3 Gamers Armory). Concentrations of detected compounds in the sub-slab soil gas samples indicated no risk exceedances.

In December 2010, three indoor air monitoring events were performed. For the first event, air samples were collected from Avalon Cleaners (Avalon), North American Video/Gamers Armory (GA/NAV), and Euro-Mediterranean Market (EMG 2) over an 8-hour period during which time the dry-cleaning machine in Avalon Cleaners was operating. A second indoor air sample was collected from each of the three spaces over a 16-hour period immediately following the first sampling event. A third indoor air sample was collected from each of the three spaces over an 8-hour period immediately following the second sampling event. The indoor air sampling results indicated exceedances of risk levels for inhalation exposure under both residential and non-residential scenarios.

Indoor air sampling was performed in April 2012. Samples were collected in the dry-cleaner (IA-1 [Avalon]), Euro-Mediterranean Market (EMG 1 and EMG 2), North American Video/Gamers Armory (NAV 1 and NAV 2), and from the vacant space (IA-4 and IA-5). The sampling results indicated exceedances of risk levels for inhalation exposure under both residential and non-

residential scenarios. The SSDSs appear to have been deactivated at the time of this sampling by either the property owner or tenant, but the date they were shut down is unknown.

In May 2012, dry-cleaning operations at Avalon Cleaners ceased. The fan for the SSDS in the dry-cleaning space was removed when the dry-cleaner moved out; however, the piping remained. The fan for the SSDS in Charlie's Beauty Supply (the former vacant space) was present but the electrical wiring to the fan had been disconnected.

Indoor air sampling was performed in June 2012. Samples were collected in the former dry-cleaner (Avalon Front and Avalon Back), Euro-Mediterranean Market (EMG 1 and EMG 2), North American Video/Gamers Armory (NAV 1 and NAV 2), and from Charlie's Beauty Supply (CBS-1 and CBS-2). The sampling results indicated exceedances of both residential and non-residential risks for the sample collected from the former dry-cleaning space. Since results from Charlie's Beauty Supply indicated acceptable indoor air concentrations without the SSDS fan running, the fan was removed and moved to the rear of the former Avalon Cleaners space in November 2012.

Indoor air sampling was performed in January 2013 in the former dry-cleaner (Avalon Back). Prior to the sampling event, remaining waste dry-cleaning solvent in the space was removed, the space was vented, and the SSDS was restarted. The sample indicated a slight exceedance of residential risk levels with a hazard index of 1.3.

The SSDS was deactivated in December 2013. In January 2014, an indoor air sample was collected from the former dry-cleaner (Avalon Back). The sample indicated no exceedances of risk levels for inhalation under residential or non-residential exposure scenarios.

Confirmation indoor air sampling was performed in July 2021 in the former dry-cleaner (Avalon Front and Avalon Back). The sampling results did not identify any compounds above the laboratory reporting limit; however, reporting limits were elevated due to the levels of acetone in the samples from the current tenant (nail salon). After a discussion with the laboratory, it was determined a lower reporting limit for future events could be obtained by modifying their methodology. Therefore, in September 2021 ATC collected a final confirmation indoor air sample in the former

dry-cleaner (Avalon Back). The results of the assessment indicated no exceedances of risk levels for inhalation under residential or non-residential exposure scenarios within the tenant space.

4.1.3.2 Soil-Gas

Soil-gas samples were collected from the site between August 2009 and June 2023. Samples were collected from locations SV-1 through SV-6 in August 2009. The results of the sampling indicated exceedances of inhalation risk levels for residential and non-residential exposure scenarios in samples SV-4 and SV-6. Residential risk level exceedances were identified in SV-5. Based on the August 2009 results, soil-gas samples were collected from SV-4, SV-5, and SV-6 in June 2013, September 2013, December 2013, March 2014, July 2014, and May 2018 (with the exception of SV-4 which was not sampled in May 2018 due a failing leak test conducted prior to sampling). The sample collected from SV-4 in June 2013 indicated exceedances of residential and non-residential risk levels while the samples collected after June 2013 only exceeded residential risk levels. Samples collected from SV-5 in September 2013 and June 2014 and from SV-6 in June 2013, September 2013, and July 2014 exceeded residential risk levels. To delineate the soil-gas impacts at the site, samples were collected from SV-7 and SV-8 in August 2018, SV-9 and SV-10 in March 2023, and SV-11 and SV-12 in June 2023. Samples were also collected from SV-1, SV-4, SV-5, and SV-6 in June 2023. The results from SV-10 indicated exceedances of inhalation risk levels for residential and non-residential exposure scenarios. The remaining samples collected from August 2018 to June 2023 indicated no exceedances of risk levels for inhalation under residential or non-residential exposure scenarios. Based on the reductions in the soil-gas concentrations, it appears the injection events were effective in reducing soil-gas impacts.

4.2 Remedial Action

According to the DSCA Program's Risk Assessment Guidance, no remedial action is necessary if four site conditions are met. Each of these conditions and their applicability to the subject site are addressed below.

Condition 1: The dissolved plume is stable or decreasing.

Periodic groundwater monitoring has been conducted at the site since July 2006. Constituents of concern (COCs) detected at the site historically above the 2L Standards include PCE, TCE, cis-1,2-DCE, vinyl chloride, benzene, naphthalene, toluene, xylenes (total), 1,1,2-trichloroethane, acetone, chloroform, methylene chloride, 2-hexanone, 1,2,4-trimethylbenzene, bromodichloromethane, n-propylbenzene, and trans-1,3-dichloropropene. Of these compounds, PCE, TCE, cis-1,2-DCE, and vinyl chloride appear to be related to the dry-cleaning solvent release.

Plume stability monitoring was performed between November 2017 and February 2018 after the injection events were conducted (documented in an October 2018 Groundwater Monitoring Report) and between July 2019 and July 2020 following bedrock delineation (documented in a September 2020 Groundwater Monitoring Report). Additional monitoring activities were performed between March 2023 and January 2024 to confirm plume stability (documented in a September 2024 Assessment Letter Report). ATC reviewed concentration trends for the source area wells for the last six sampling events, performed between November 2017 (after the injection activities concluded) and January 2024. This was deemed appropriate as the injection activities substantially altered the biogeochemistry of the aquifer and the groundwater was at a new equilibrium. When reviewing concentrations trends in the new equilibrium, there are no increasing concentration trends. Mann-Kendall analysis was also performed for the total molarity of PCE and daughter-products for wells located in the injection area. Based on the trends, there is no discernable molarity trend for MW-2 and MW-2D and a stable trend for MW-2I. Although the Mann-Kendall indicates “no trend” for the molarity in MW-2 and MW-2D, the total moles of PCE and daughter products in MW-2 decreased from 0.1 $\mu\text{mol/L}$ in June 2013 to 0.0003 $\mu\text{mol/L}$ in January 2024 and the peak total moles in MW-2D occurred in June 2016, after the final injection event, at 0.0017 $\mu\text{mol/L}$ and has consistently decreased since then with a value of 0.0008 $\mu\text{mol/L}$ during the last time the well was sampled in March 2023.

Based on assessment activities, ATC concludes the groundwater plume meets stability criteria under 15A NCAC 02S .0509. Demonstration of the plume stability evaluation, including a table

showing historical groundwater analytical data and the GSI Mann-Kendall Toolkit documentation, is included in *Appendix A*.

Condition 2: The maximum concentration within the exposure domain for every complete exposure pathway of any COC is less than ten times the representative concentration of that COC.

ATC evaluated the representative concentrations calculated during the risk assessment and found that this condition has been met for all COCs and exposure pathways.

Condition 3: Adequate assurance is provided that the land-use assumptions used in the DSCA Program's Risk-Based Corrective Action (RBCA) process are not violated for current or future conditions.

Land-use controls will be implemented for the site to ensure the assumptions made in the risk assessment remain valid in the future. Refer to Section 6.0 for additional details regarding the proposed land-use controls for the site.

Condition 4: There are no ecological concerns at the site.

ATC completed a Level 1 Ecological Risk Assessment for the site in accordance with the DSCA Program's guidance. The results of the evaluation indicate that the release does not pose an unacceptable ecological risk. The completed Level 1 Ecological Risk Assessment Checklists A and B and associated attachments are included in *Appendix B*.

The site's compliance with the four above referenced conditions confirms that the contaminant concentrations are not likely to pose an unacceptable risk either at present or in the future. The plume is expected to naturally attenuate over time and the appropriate remedial action is to implement appropriate land-use controls on the property where soil and groundwater contamination associated with the site is present.

5.0 DATA COLLECTED DURING RMP IMPLEMENTATION

No further sampling or other data collection activities are proposed for the site, as long as the assumptions detailed in the Notice of Dry-Cleaning Solvent Remediation (NDCSR) remains valid. As such, this section is not applicable.

6.0 LAND-USE CONTROLS

As discussed in detail in Section 3.0, the recommendation for closure in the risk assessment for the site was based on the following land-use conditions:

1. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools that use groundwater, or construction or excavation activities that encounter or expose groundwater) may occur in “**Area A**” of the Property, as shown on Exhibit A, without prior approval of DEQ.
2. Soil in “**Area B**” of the Property, as shown on Exhibit A, may not be removed or disturbed unless approved in writing in advance by DEQ or its successor in function, except for routine landscape maintenance and emergency utility repair. In the event of emergency utility repair, DEQ shall be given written notice of any such emergency repair no later than the next business day, and further related assessment and remedial measures may be required.
3. Except for routine maintenance, no construction activities or change in property use that cause or create an unacceptable human health risk from vapor intrusion may occur in “**Area C**” of the Property, as shown on Exhibit A, without prior approval of DEQ. These activities include but are not limited to: construction of new buildings, removal and construction of part of a building, construction of sub-grade structures that encounter contaminated soil or places building users in close proximity to contaminated groundwater, change from non-residential to residential property, change in tenant space usage, and addition of residential property use on higher floors.

4. Structural modifications within “**Area C**” that may cause or create an increased risk from vapor intrusion require the property owner to demonstrate to the satisfaction of DEQ that the indoor air in the structure does not pose an unacceptable risk to the occupants following modifications. These modifications include but are not limited to: modification or replacement of heating, ventilation or air conditioning (HVAC) systems, removal or replacement of the building slab, installation of multiple conduits or piping through the building slab, modifications to building walls or ceilings that may change air flow.
5. No activities that cause or create an increase in infiltration (for example, removal or demolition of materials such as asphalt, concrete, buildings, or other structures that by their use and nature minimize infiltration of rain or water runoff into potentially contaminated soil) may occur in “**Area D**” of the Property, as shown on Exhibit A, without prior approval of DEQ.

Institutional controls will be implemented to ensure that land-use conditions are maintained and monitored until the land-use controls are no longer required for the site. A NDCSR was prepared for the source property to comply with the land-use control requirement and is included as *Appendix C*. A survey plat showing the locations and types of dry-cleaning solvent impacts on the site is included as an exhibit to the NDCSR. The locations of dry-cleaning solvent contamination are where contaminants have been detected or are reasonably presumed to be present at concentrations above unrestricted use standards.

7.0 LONG-TERM STEWARDSHIP PLAN

The NDCSR for the source property contains a clause which requires that the owner of the property submit notarized “Annual Certification of Land-Use Restrictions” to NCDEQ on an annual basis certifying that the NDCSR remains recorded with the Register of Deeds and that the LURs are being complied with. An example of such a certification is included in *Appendix D*.

8.0 RMP IMPLEMENTATION SCHEDULE

Since the contamination is stable and has not migrated onto off-source properties, and possible exposure to the contamination is managed through the NDCSR, no additional site remediation activities are required to implement the RMP. A 30-day public comment period will be held to allow the community an opportunity to comment on the proposed strategy. *Appendix E* includes example documents used to announce the public comment period in the local newspaper and to inform local officials, nearby property owners, and interested parties. As such, upon completion of the public comment period and final approval of the RMP, the NDCSR will be filed with the Wake County Register of Deeds and will complete the RMP schedule.

9.0 CRITERIA FOR DEMONSTRATING RMP SUCCESS

The RMP will be successfully implemented once the required NDCSR has been executed and recorded with the Wake County Register of Deeds. The NDCSR may, at the request of the owner of the property, be canceled by NCDEQ after the risk to public health and the environment associated with the dry-cleaning solvent contamination and any other contaminants included in the dry-cleaning solvent assessment and remediation agreement has been eliminated as a result of remediation of the property. If NCDEQ is notified of a change in site conditions, per the notification requirements detailed in the NDCSR, the RMP will be reviewed to determine if the site conditions have impacted the requirements set forth in each NDCSR and if changes are required. Enforcement of the RMP will be maintained through receipt of the “Annual Land-Use Restrictions Certification” from the source property owner as part of the NDCSR requirements.

10.0 CONTINGENCY PLAN IF RMP FAILS

As discussed above, unless the DSCA Program is notified of a change in land-use conditions at the site, per the notification requirements detailed in this plan, the RMP will remain in effect until the RMP has met its objectives and is considered a success. Pursuant to N.C.G.S. 143-215.104K, if any of the LURs set out in the NDCSR are violated, the owner of the property at the time the

LURs are violated, the owner's successors and assigns, and the owner's agents who directed or contracted for alteration of the site in violation of the LURs, shall be held liable for the remediation of all contaminants to unrestricted use standards.

11.0 CONCLUSIONS AND RECOMMENDATIONS

ATC has prepared this RMP for the Avalon Cleaners site on behalf of the DSCA Program. The results of a risk assessment indicated that contaminant concentrations at the site do not pose an unacceptable risk with appropriate land-use controls applied to the source property. The contaminant plume associated with the site appears stable. This RMP specifies that the NDCSR requirements provide notification that land-use conditions observed during the risk assessment evaluation remain valid in the future. Based on the documentation contained in this report, ATC recommends issuance of a "No Further Action" letter.

FIGURES

C:\USERS\DAVID.HUGHES\ONEATLAS\FILE SERVER\2024\CAD DEPARTMENT\DC9237SL22-SITE.DWG, FIG 1



LEGEND:

- MW-1 MONITORING WELL (TYPE II)
Well Identification
- DW-1 MONITORING WELL (TYPE III)
Well Identification
- SOURCE PROPERTY BOUNDARY
- G GAS LINE
- ST STORM SEWER
- SS SANITARY SEWER
- T TELEPHONE LINE
- E ELECTRICAL UNDERGROUND
- W WATER LINE
- C CABLE LINE
- Ⓧ FLOOR DRAIN

NOTE: ALL LOCATIONS ARE APPROXIMATE

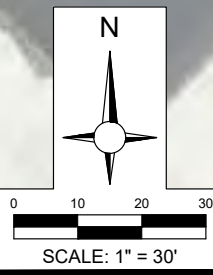
| | |
|-----------------|----------------|
| Dim. By: | DH |
| DSCA Site ID: | DC920037 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| Chk. By: | AO |
| Appd. By: | |
| Chk. Date: | |



NOTES:

- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
- Utility locations are based on May 4, 2010 Assessment Report.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET



SITE MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 1

C:\USERS\DAVID.HUGHES\ONEAD\AS\FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-DWM-DSCA PROGRAM\92-0037 AVALON CLEANERS\DC9237SL22-EXPOSURE.DWG. FIG 2



LEGEND:

- MW-1 MONITORING WELL (TYPE II)
Well Identification
- DW-1 MONITORING WELL (TYPE III)
Well Identification
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCELS
- - - DITCH
- █ EXPOSURE UNIT #1
- █ GROUNDWATER SOURCE AREA
- █ SOIL SOURCE AREA

NOTE: ALL LOCATIONS ARE APPROXIMATE

| | |
|-----------------|----------------|
| Dir. By: | DH |
| DSCA Site ID: | DC920037 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| App'd By: | AO |
| Clk'd. Date: | |

NOTES:

- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
- mg/L = milligrams per liter.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

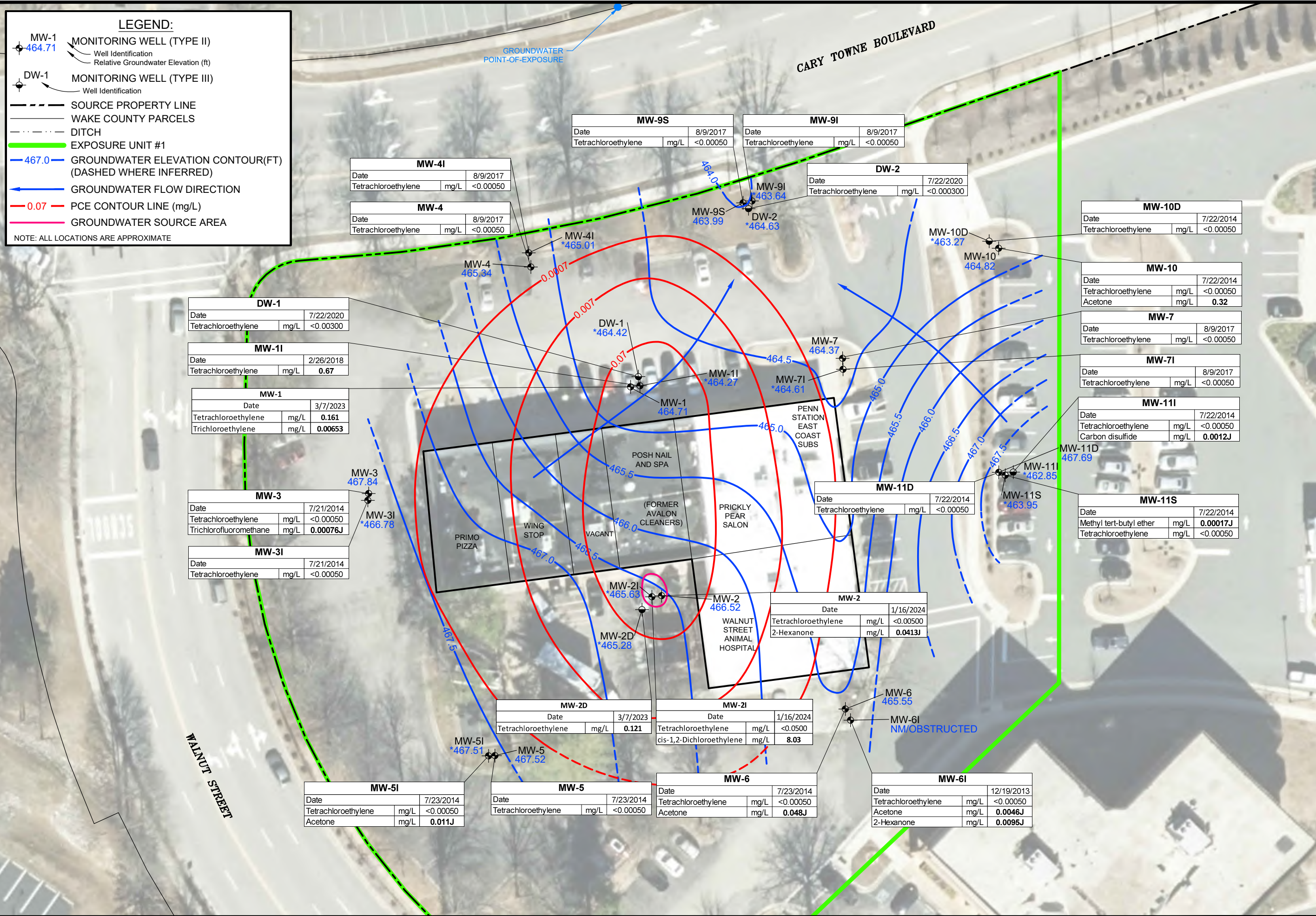
EXPOSURE UNIT MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 2

SCALE: 1" = 200'



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LEGEND:

- MW-1 464.71 MONITORING WELL (TYPE II)
Well Identification
Relative Groundwater Elevation (ft)
- DW-1 MONITORING WELL (TYPE III)
Well Identification
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCELS
- - - - - DITCH
- EXPOSURE UNIT #1
- 467.0 GROUNDWATER ELEVATION CONTOUR(FT)
(DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- 0.07 PCE CONTOUR LINE (mg/L)
- GROUNDWATER SOURCE AREA

NOTE: ALL LOCATIONS ARE APPROXIMATE

| Well ID | Date | Parameter | Value |
|---------|------------|--------------------------|-----------|
| MW-1 | 3/7/2023 | Tetrachloroethylene | 0.161 |
| MW-1 | 3/7/2023 | Trichloroethylene | 0.00653 |
| MW-11 | 2/26/2018 | Tetrachloroethylene | 0.67 |
| MW-3 | 7/21/2014 | Tetrachloroethylene | <0.00050 |
| MW-3 | 7/21/2014 | Trichlorofluoromethane | 0.00076J |
| MW-3I | 7/21/2014 | Tetrachloroethylene | <0.00050 |
| MW-4 | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-4I | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-5 | 7/23/2014 | Tetrachloroethylene | <0.00050 |
| MW-5 | 7/23/2014 | Acetone | 0.011J |
| MW-6 | 7/23/2014 | Tetrachloroethylene | <0.00050 |
| MW-6 | 7/23/2014 | Acetone | 0.048J |
| MW-6I | 12/19/2013 | Tetrachloroethylene | <0.00050 |
| MW-6I | 12/19/2013 | Acetone | 0.0046J |
| MW-6I | 12/19/2013 | 2-Hexanone | 0.0095J |
| MW-7 | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-7I | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-10 | 7/22/2014 | Tetrachloroethylene | <0.00050 |
| MW-10 | 7/22/2014 | Acetone | 0.32 |
| MW-10D | 7/22/2014 | Tetrachloroethylene | <0.00050 |
| MW-11 | 7/22/2014 | Tetrachloroethylene | <0.00050 |
| MW-11 | 7/22/2014 | Carbon disulfide | 0.0012J |
| MW-11D | 7/22/2014 | Tetrachloroethylene | <0.00050 |
| MW-11S | 7/22/2014 | Methyl tert-butyl ether | 0.00017J |
| MW-11S | 7/22/2014 | Tetrachloroethylene | <0.00050 |
| MW-9S | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-9I | 8/9/2017 | Tetrachloroethylene | <0.00050 |
| MW-2 | 1/16/2024 | Tetrachloroethylene | <0.00500 |
| MW-2 | 1/16/2024 | 2-Hexanone | 0.0413J |
| MW-2I | 1/16/2024 | Tetrachloroethylene | <0.0500 |
| MW-2I | 1/16/2024 | cis-1,2-Dichloroethylene | 8.03 |
| MW-2D | 3/7/2023 | Tetrachloroethylene | 0.121 |
| DW-1 | 7/22/2020 | Tetrachloroethylene | <0.00300 |
| DW-2 | 7/22/2020 | Tetrachloroethylene | <0.000300 |

GROUNDWATER QUALITY MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 3

Project Number: DC9237SL22
 DSCA Site ID: DC920037
 Drawing File: SEE LOWER LEFT

Dim. By: DH
 Ckd. By: AO
 App'd By: AO
 Ckd. Date:

NOTES:
 1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
 2. Utility locations area based on May 4, 2010 Assessment Report.
 3. Groundwater elevations measured January 16, 2024.
 4. * = Intermediate and deep wells not used to construct contours.
 5. MW = not measured.

COORDINATE SYSTEM:
 NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

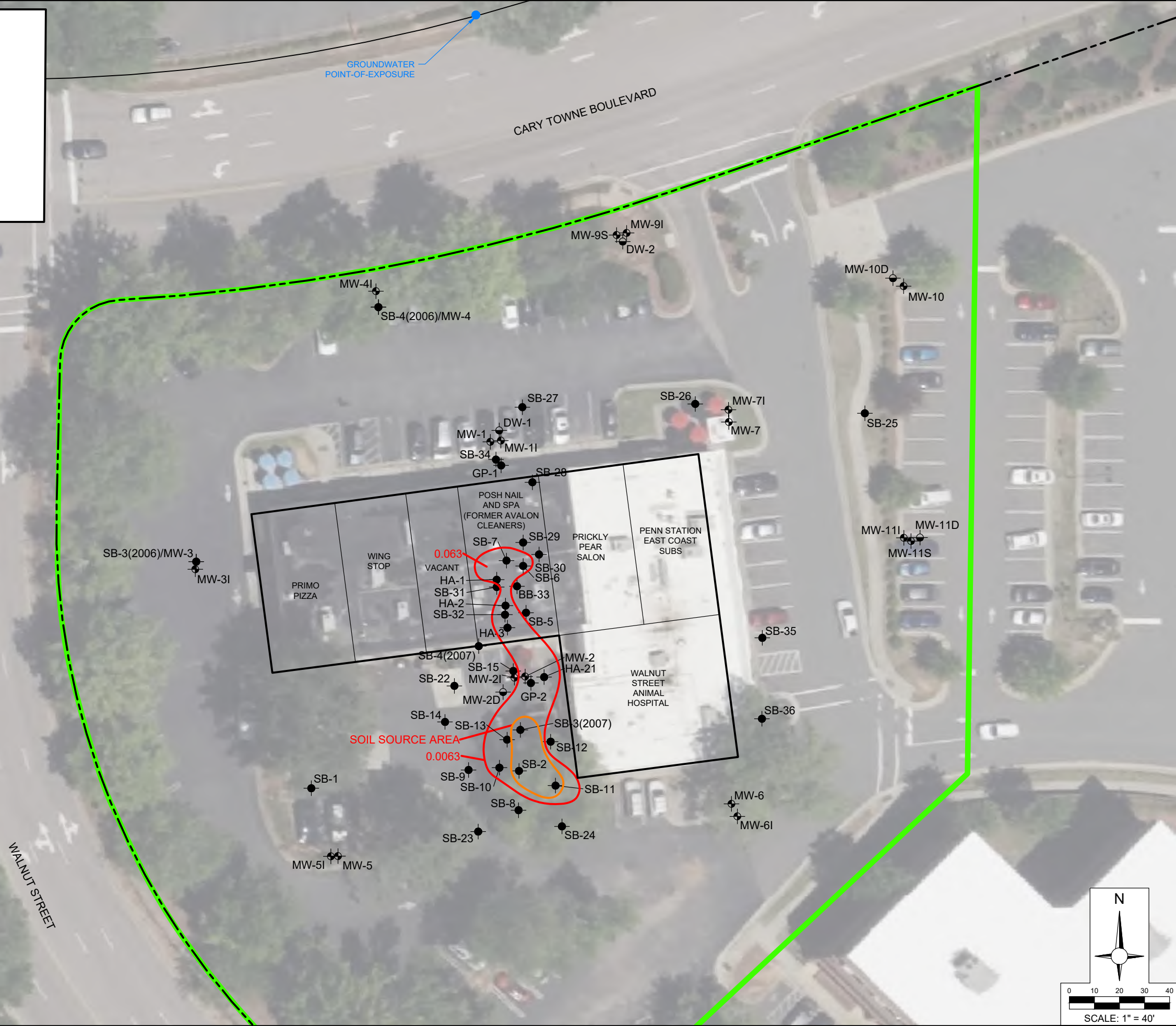
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C:\USERS\JACK.GOSE\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\NCDDEC\DWG-DSCA PROGRAM\92-0037 AVALON CLEANERS\DC9237SL21-SOIL-DWG.FIG4

LEGEND:

- B-1 SOIL BORING LOCATION
Boring Identification
 - MW-1 MONITORING WELL (TYPE II)
Well Identification
 - DW-1 MONITORING WELL (TYPE III)
Well Identification
 - SOURCE PROPERTY LINE
 - WAKE COUNTY PARCELS
 - 0.0063 SOIL IMPACTED ABOVE IHSB PSRGS
 - SOIL SOURCE AREA
 - EXPOSURE UNIT #1
- NOTE: ALL LOCATIONS ARE APPROXIMATE

| Sample ID | Depth (feet bgs) | Sampling Date | Tetrachloroethylene (mg/kg) |
|------------|------------------|---------------|-----------------------------|
| HA-1 | 4-5 | 7/10/2006 | 0.0651 |
| HA-2 | 3-4 | 8/8/2006 | 0.088 |
| HA-3 | 4-5 | 8/8/2006 | 0.036 |
| HA-21 | 1-3 | 8/19/2008 | 0.029 |
| | 9-11 | 8/19/2008 | 0.030 |
| SB-1 | 2-4 | 1/5/2007 | 0.0019 |
| SB-2 | 6-8 | 1/5/2007 | 1 |
| SB-3(2006) | 5-6 | 8/8/2006 | ND |
| SB-3(2007) | 6-8 | 1/5/2007 | 2.7 |
| SB-4 | 0-2 | 1/5/2007 | <0.00073 |
| SB-5 | 2-4 | 1/5/2007 | 0.0023 |
| SB-6 | 2-4 | 1/5/2007 | 0.011 |
| SB-7 | 2-4 | 1/5/2007 | 0.0089 |
| SB-8 | 3-5 | 8/19/2008 | 0.0053J |
| SB-9 | 3-5 | 8/19/2008 | <0.14 |
| SB-10 | 3-5 | 8/19/2008 | 0.028 |
| SB-11 | 1-3 | 8/19/2008 | 0.15 |
| SB-13 | 1-3 | 8/19/2008 | 0.078 |
| SB-14 | 1-3 | 8/19/2008 | <0.14 |
| SB-15 | 3-5 | 8/19/2008 | 0.0032J |
| SB-22 | 1-3 | 8/19/2008 | 0.0040J |
| SB-23 | 1-3 | 8/20/2008 | 0.0033J |
| | 8-10 | 8/20/2008 | 0.0057J |
| SB-24 | 1-3 | 8/20/2008 | <0.14 |
| | 8-10 | 8/20/2008 | 0.0056J |
| SB-25 | 1-3 | 8/20/2008 | <0.14 |
| | 6-8 | 8/20/2008 | <0.14 |
| SB-26 | 1-3 | 8/20/2008 | <0.14 |
| | 6-8 | 8/20/2008 | <0.14 |
| SB-27 | 1-3 | 8/20/2008 | <0.14 |
| | 6-8 | 8/20/2008 | <0.14 |
| SB-28 | 1-3 | 8/20/2008 | <0.14 |
| | 6-8 | 8/20/2008 | <0.14 |
| SB-29 | 1-3 | 8/21/2008 | <0.14 |
| | 8-10 | 8/21/2008 | <0.15 |
| SB-30 | 1-3 | 8/21/2008 | <0.15 |
| | 8-10 | 8/21/2008 | 0.0035J |
| SB-31 | 1-3 | 8/21/2008 | <0.14 |
| | 8-10 | 8/21/2008 | 0.0050J |
| SB-32 | 1-3 | 8/22/2008 | <0.14 |
| | 8-10 | 8/22/2008 | 0.039 |
| BB-33 | 1-3 | 9/3/2008 | <0.0016 |
| | 6-8 | 9/3/2008 | <0.0016 |
| SB-34 | 0-1 | 3/6/2023 | <0.00493 |
| | 9-10 | 3/6/2023 | <0.00498 |
| SB-35 | 0-1 | 3/6/2023 | <0.00548 |
| | 7-9 | 3/6/2023 | <0.00428 |
| SB-36 | 0-1 | 3/6/2023 | <0.00404 |
| | 9-10 | 3/6/2023 | <0.00546 |



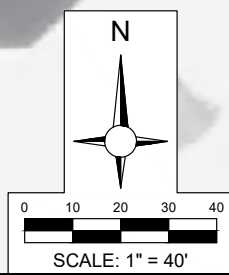
| | |
|-----------------|----------------|
| Dir. By: | JG |
| DSCA Site ID: | DC920037 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| Clk. By: | AO |
| App'd By: | |
| Clk. Date: | |



- NOTES:
- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
 - ND = Not Detected.
 - mg/kg = milligrams per kilogram.
 - bgs = below ground surface.
 - J = Estimated value between laboratory report and method detection limit.
 - Only data collected above the historical high water table / smear zone are included on figure.
 - Tetrachloroethylene is the only compound detected above IHSB PSRGS.
 - Highlighted samples exceed target source soil concentration of 0.56 mg/kg.
- COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

SOIL QUALITY MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 2/24
 Scale: AS SHOWN
 Figure: 4



LEGEND:

- NAV-1 AIR SAMPLE LOCATION - NO CURRENT RISK
- Sample Identification
- SOURCE PROPERTY LINE
- PRE-FINAL INJECTION EVENT
- POST-FINAL INJECTION EVENT
- EXPOSURE UNIT #1
- NOTE: ALL LOCATIONS ARE APPROXIMATE

CARY TOWNE BOULEVARD

| NAV-2 | | | |
|--------------------------------------|----------|----------|-----------|
| Date | 1/7/2010 | 4/3/2012 | 6/26/2012 |
| Sample Duration | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | N/A | N/A |
| cis-1,2-Dichloroethylene | <0.793 | <0.079 | 0.55 |
| Tetrachloroethylene | 68 | 580 | 9.5 |
| Trichloroethylene | <1.1 | 3.8 | <0.11 |
| Vinyl chloride | <51 | 0.051 | 0.064 |
| Chloroform | <0.973 | NA | 0.24 |
| Residential Carcinogenic Risk | 6.30E-06 | 6.20E-05 | 3.20E-06 |
| Residential Hazard Index | 1.6 | 16 | 0.23 |
| Non-Residential Carcinogenic Risk | 1.40E-06 | 1.40E-05 | 6.70E-07 |
| Non-Residential Hazard Index | 0.37 | 3.7 | 0.055 |

| Avalon Front | | | | |
|--------------------------------------|-----------|----------|-----------|-----------|
| Date | 1/21/2010 | 4/3/2012 | 6/26/2012 | 7/21/2021 |
| Sample Duration | 8 hours | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive | Inactive |
| Mitigation System Operational Status | On | On | N/A | N/A |
| Tetrachloroethylene | 580 | 2,600 | 42 | <50 |
| Trichloroethylene | 16 | 14 | 0.14 | <40 |
| Chloroform | 0.12 | NA | 0.14 | NA |
| Residential Carcinogenic Risk | 4.20E-05 | 2.70E-04 | 5.30E-06 | -- |
| Residential Hazard Index | 9.6 | 69 | 1.1 | -- |
| Non-Residential Carcinogenic Risk | 1.80E-05 | 6.00E-05 | 1.20E-06 | -- |
| Non-Residential Hazard Index | 5.1 | 16 | 0.26 | -- |

| EMG-1 | | | |
|--------------------------------------|----------|----------|-----------|
| Date | 1/7/2010 | 4/3/2012 | 6/26/2012 |
| Sample Duration | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | N/A | N/A |
| cis-1,2-Dichloroethylene | <0.793 | <0.079 | 0.091 |
| Tetrachloroethylene | 1,200 | 3,800 | 1.8 |
| Trichloroethylene | <1.1 | 15 | <0.11 |
| Chloroform | 1.7 | NA | 0.17 |
| Residential Carcinogenic Risk | 1.30E-04 | 3.80E-04 | 1.60E-06 |
| Residential Hazard Index | 29 | 98 | 0.045 |
| Non-Residential Carcinogenic Risk | 2.90E-05 | 8.60E-05 | 3.60E-07 |
| Non-Residential Hazard Index | 6.9 | 23 | 0.011 |

| NAV / GA / NAV | | | | | |
|--------------------------------------|-----------|-----------|--------------|--------------|--------------|
| Date | 2/12/2010 | 5/20/2010 | 12/3/2010 AM | 12/3/2010 PM | 12/4/2010 AM |
| Sample Duration | 7 days | 8 hours | 8 hours | 16 hours | 8 hours |
| Sampling Method | Radiello | Radiello | Radiello | Radiello | Radiello |
| Drycleaner Operational Status | Active | Active | Active | Active | Active |
| Mitigation System Operational Status | N/A | N/A | N/A | N/A | N/A |
| Tetrachloroethylene | 26 | 200 | 26 | 9.7 | 13 |
| Residential Carcinogenic Risk | 2.40E-06 | 1.90E-05 | 2.40E-06 | 9.00E-07 | 1.20E-06 |
| Residential Hazard Index | 0.62 | 4.8 | 0.62 | 0.23 | 0.31 |
| Non-Residential Carcinogenic Risk | 5.50E-07 | 4.20E-06 | 5.50E-07 | 2.10E-07 | 2.80E-07 |
| Non-Residential Hazard Index | 0.15 | 1.1 | 0.15 | 0.0055 | 0.074 |

| Avalon | | | | | |
|--------------------------------------|-----------|-----------|--------------|--------------|------------|
| Date | 2/12/2010 | 5/20/2010 | 12/3/2010 AM | 12/3/2010 PM | 12/4/10 AM |
| Sample Duration | 7 days | 8 hours | 8 hours | 16 hours | 8 hours |
| Sampling Method | Radiello | Radiello | Radiello | Radiello | Radiello |
| Drycleaner Operational Status | Active | Active | Active | Active | Active |
| Mitigation System Operational Status | N/A | N/A | On | On | On |
| Tetrachloroethylene | 980 | 2,700 | 1,300 | 1,100 | 520 |
| Trichloroethylene | 5.7 | 5.6 | 150 | 220 | 110 |
| Chloroform | 0.15 | <2.9 | NA | NA | NA |
| Residential Carcinogenic Risk | 1.00E-04 | 2.60E-04 | 4.30E-04 | 5.60E-04 | 2.80E-04 |
| Residential Hazard Index | 26 | 67 | 100 | 130 | 65 |
| Non-Residential Carcinogenic Risk | 2.30E-05 | 5.90E-05 | 7.80E-05 | 9.70E-05 | 4.80E-05 |
| Non-Residential Hazard Index | 6.2 | 16 | 25 | 31 | 16 |

| EMG-2 | | | | | | | |
|--------------------------------------|----------|-----------|-----------|--------------|--------------|--------------|----------|
| Date | 1/7/2010 | 2/12/2010 | 5/20/2010 | 12/3/2010 AM | 12/3/2010 PM | 12/4/2010 AM | 4/3/2012 |
| Sample Duration | 8 hours | 7 days | 8 hours | 8 hours | 16 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Radiello | Radiello | Radiello | Radiello | Radiello | Summa |
| Drycleaner Operational Status | Active | Active | Active | Active | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tetrachloroethylene | 1,100 | 54 | 72 | 36 | 26 | 27 | 3,500 |
| Trichloroethylene | <1.1 | 0.18 | <3.1 | <3.2 | 3.5 | 6.6 | <0.11 |
| Chloroform | 1.8 | 1.2 | <2.9 | NA | NA | NA | 0.2 |
| Residential Carcinogenic Risk | 1.20E-04 | 1.50E-05 | 6.70E-06 | 3.30E-06 | 9.70E-06 | 1.60E-05 | 3.50E-04 |
| Residential Hazard Index | 26 | 1.4 | 1.7 | 0.86 | 2.3 | 3.8 | 91 |
| Non-Residential Carcinogenic Risk | 2.70E-05 | 3.50E-06 | 1.50E-06 | 7.60E-07 | 1.70E-06 | 2.80E-06 | 4.20E-07 |
| Non-Residential Hazard Index | 6.3 | 0.33 | 0.41 | 0.21 | 0.55 | 0.97 | 22 |

| NAV-1 | | | |
|--------------------------------------|----------|----------|-----------|
| Date | 1/7/2010 | 4/3/2012 | 6/26/2012 |
| Sample Duration | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | N/A | N/A |
| cis-1,2-Dichloroethylene | <0.793 | <0.079 | 0.083 |
| Tetrachloroethylene | 65 | 590 | 9.5 |
| Trichloroethylene | <1.1 | 4.4 | <0.11 |
| Vinyl chloride | <51 | <0.051 | 0.066 |
| Chloroform | <0.973 | NA | 0.19 |
| Residential Carcinogenic Risk | 6.00E-06 | 6.40E-05 | 2.80E-06 |
| Residential Hazard Index | 1.6 | 16 | 0.23 |
| Non-Residential Carcinogenic Risk | 1.40E-06 | 1.40E-05 | 5.80E-07 |
| Non-Residential Hazard Index | 0.37 | 3.9 | 0.055 |

| Avalon Back | | | | | |
|--------------------------------------|-----------|-----------|-----------|-----------|----------|
| Date | 1/21/2010 | 6/26/2012 | 1/17/2013 | 7/21/2021 | 9/8/2021 |
| Sample Duration | 8 hours | 8 hours | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Inactive | Inactive | Inactive | Inactive |
| Mitigation System Operational Status | N/A | N/A | On | Off | N/A |
| cis-1,2-Dichloroethylene | <0.793 | <0.079 | 1 | <0.262 | <0.38 |
| Tetrachloroethylene | 370 | 370 | 29 | 4.3 | <99 |
| Trichloroethylene | 3 | 0.13 | 1.2 | 0.0796 | <7 |
| Chloroform | 0.13 | 0.17 | NA | NA | NA |
| Residential Carcinogenic Risk | 4.20E-05 | 3.60E-05 | 5.20E-06 | 5.60E-07 | 9.3E-08 |
| Residential Hazard Index | 10 | 8.9 | 1.3 | 0.14 | 0.024 |
| Non-Residential Carcinogenic Risk | 9.10E-06 | 8.20E-06 | 1.00E-06 | 1.20E-07 | 2.1E-08 |
| Non-Residential Hazard Index | 2.5 | 2.1 | 0.3 | 0.034 | 0.0057 |

| BG | |
|--------------------------------------|----------|
| Date | 1/7/2010 |
| Sample Duration | 8 hours |
| Sampling Method | Summa |
| Drycleaner Operational Status | Active |
| Mitigation System Operational Status | N/A |
| Tetrachloroethylene | <1.36 |
| Residential Carcinogenic Risk | -- |
| Residential Hazard Index | -- |
| Non-Residential Carcinogenic Risk | -- |
| Non-Residential Hazard Index | -- |

| VAC-1/A-4/CBS-1 | | | |
|--------------------------------------|----------|----------|-----------|
| Date | 1/7/2010 | 4/3/2012 | 6/26/2012 |
| Sample Duration | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | Off | Off |
| Tetrachloroethylene | 110 | 370 | 0.6 |
| Trichloroethylene | <1.1 | 2.8 | 0.12 |
| Chloroform | 1.2 | NA | 0.12 |
| Residential Carcinogenic Risk | 2.00E-05 | 4.00E-05 | 1.30E-06 |
| Residential Hazard Index | 2.6 | 10 | 0.073 |
| Non-Residential Carcinogenic Risk | 4.60E-06 | 8.80E-06 | 2.80E-07 |
| Non-Residential Hazard Index | 0.63 | 2.4 | 0.017 |

| VAC-2/A-5/CBS-2 | | | |
|--------------------------------------|----------|----------|-----------|
| Date | 1/7/2010 | 4/3/2012 | 6/26/2012 |
| Sample Duration | 8 hours | 8 hours | 8 hours |
| Sampling Method | Summa | Summa | Summa |
| Drycleaner Operational Status | Active | Active | Inactive |
| Mitigation System Operational Status | N/A | Off | Off |
| Tetrachloroethylene | 100 | 330 | 0.43 |
| Trichloroethylene | <1.1 | 2.6 | 0.11 |
| Chloroform | 1.2 | NA | 0.17 |
| Residential Carcinogenic Risk | 1.90E-05 | 4.60E-05 | 1.70E-06 |
| Residential Hazard Index | 2.4 | 9.2 | 0.065 |
| Non-Residential Carcinogenic Risk | 4.40E-06 | 7.90E-06 | 3.60E-07 |
| Non-Residential Hazard Index | 0.57 | 2.2 | 0.015 |

| VAC | |
|--------------------------------------|-----------|
| Date | 2/12/2010 |
| Sample Duration | 7 days |
| Sampling Method | Radiello |
| Drycleaner Operational Status | Active |
| Mitigation System Operational Status | N/A |
| Tetrachloroethylene | 18 |
| Chloroform | 0.48 |
| Residential Carcinogenic Risk | 5.60E-06 |
| Residential Hazard Index | 0.44 |
| Non-Residential Carcinogenic Risk | 1.30E-06 |
| Non-Residential Hazard Index | 0.1 |

PENN STATION EAST COAST SUBS

VACANT

WALNUT STREET ANIMAL HOSPITAL

SUPER CUTS

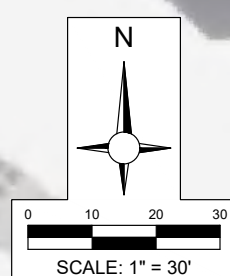
POSH NAIL AND SPA

(FORMER AVALON CLEANERS)

PRIMO PIZZA

WING STOP

WALNUT STREET



Dim. By: DH
 Ckd. By: AO
 App'd By:
 Ckd. Date:

DSCA Site ID: DC9237SL22
 Project Number: DC9237SL22
 Drawing File: SEE LOWER LEFT

- NOTES:
- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
 - µg/m³ = micrograms per cubic meter.
 - NA = Not analyzed.
 - Values **BOLD/BOLD** where risk values exceed acceptable levels.
 - N/A = Not Applicable.
 - = Risk not quantifiable.
- COORDINATE SYSTEM:
 NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

INDOOR AIR QUALITY MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 5

C:\USERS\DAVID.HUGHES\ONEDRIVE - ONEATLAS\FILE SERVER\2024\CAD DEPARTMENT\INDEC\DWG-DSCA PROGRAM\92-0037 AVALON CLEANERS\DC9237SL22-SS-DWG.FIG6

LEGEND:

- SS-1 SUB-SLAB SAMPLE POINT
Sample Identification
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCEL
- EXPOSURE UNIT #1

NOTE: ALL LOCATIONS ARE APPROXIMATE

CARY TOWNE BOULEVARD

WALNUT STREET

SS-1 Gamers

| Date | | 7/12/2010 |
|-----------------------------------|-------|-----------|
| Ethylbenzene | µg/m³ | 9.1 |
| Tetrachloroethylene | µg/m³ | 59 |
| Toluene | µg/m³ | 6.8 |
| Xylenes (Total) | µg/m³ | 38.9 |
| Residential Carcinogenic Risk | | 4.10E-07 |
| Residential Hazard Index | | 0.054 |
| Non-Residential Carcinogenic Risk | | 3.10E-08 |
| Non-Residential Hazard Index | | 0.0043 |

SS-2 Gamers

| Date | | 7/12/2010 |
|-----------------------------------|-------|-----------|
| Ethylbenzene | µg/m³ | 3.6 |
| Tetrachloroethylene | µg/m³ | 81 |
| Toluene | µg/m³ | 12 |
| Xylenes (Total) | µg/m³ | 10.3 |
| Residential Carcinogenic Risk | | 3.20E-07 |
| Residential Hazard Index | | 0.061 |
| Non-Residential Carcinogenic Risk | | 2.50E-08 |
| Non-Residential Hazard Index | | 0.0049 |

SS-11

| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 140 |
| Residential Carcinogenic Risk | | 3.90E-07 |
| Residential Hazard Index | | 0.1 |
| Non-Residential Carcinogenic Risk | | 3.00E-08 |
| Non-Residential Hazard Index | | 0.008 |

SS-10

| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 220 |
| Residential Carcinogenic Risk | | 6.10E-07 |
| Residential Hazard Index | | 0.16 |
| Non-Residential Carcinogenic Risk | | 4.70E-08 |
| Non-Residential Hazard Index | | 0.013 |

SS-3 Gamers

| Date | | 7/12/2010 |
|-----------------------------------|-------|-----------|
| Tetrachloroethylene | µg/m³ | 100 |
| Toluene | µg/m³ | 2.3 |
| Residential Carcinogenic Risk | | 2.80E-07 |
| Residential Hazard Index | | 0.072 |
| Non-Residential Carcinogenic Risk | | 2.10E-08 |
| Non-Residential Hazard Index | | 0.0057 |

SS-8/SS-2 Avalon

| Date | | 1/8/2010 | 7/12/2010 |
|-----------------------------------|-------|----------|-----------|
| Ethylbenzene | µg/m³ | NA | 2 |
| Tetrachloroethylene | µg/m³ | 540 | 630 |
| Toluene | µg/m³ | NA | 2.9 |
| Xylenes (Total) | µg/m³ | NA | 6.5 |
| Residential Carcinogenic Risk | | 1.50E-06 | 1.80E-06 |
| Residential Hazard Index | | 0.39 | 0.46 |
| Non-Residential Carcinogenic Risk | | 1.10E-07 | 1.40E-07 |
| Non-Residential Hazard Index | | 0.031 | 0.036 |

SS-7/SS-1 Avalon

| Date | | 1/8/2010 | 7/12/2010 |
|-----------------------------------|-------|----------|-----------|
| Ethylbenzene | µg/m³ | NA | 4 |
| Tetrachloroethylene | µg/m³ | 2,600 | 88 |
| Toluene | µg/m³ | NA | 3.4 |
| Xylenes (Total) | µg/m³ | NA | 15.6 |
| Residential Carcinogenic Risk | | 7.20E-06 | 3.50E-07 |
| Residential Hazard Index | | 1.9 | 0.068 |
| Non-Residential Carcinogenic Risk | | 5.50E-07 | 2.70E-08 |
| Non-Residential Hazard Index | | 0.15 | 0.0084 |

SS-6/SS-1 A&S

| Date | | 1/8/2010 | 7/12/2010 |
|-----------------------------------|-------|----------|-----------|
| Ethylbenzene | µg/m³ | NA | 6.1 |
| Tetrachloroethylene | µg/m³ | 5.2 | 55 |
| Toluene | µg/m³ | NA | 8.7 |
| Xylenes (Total) | µg/m³ | NA | 25.6 |
| Residential Carcinogenic Risk | | 1.40E-08 | 3.20E-07 |
| Residential Hazard Index | | 0.0037 | 0.047 |
| Non-Residential Carcinogenic Risk | | 1.10E-09 | 2.40E-08 |
| Non-Residential Hazard Index | | 0.0003 | 0.0037 |

SS-1 Vacant

| Date | | 7/12/2010 |
|-----------------------------------|-------|-----------|
| Ethylbenzene | µg/m³ | 10 |
| Tetrachloroethylene | µg/m³ | 30 |
| Toluene | µg/m³ | 64 |
| Xylenes (Total) | µg/m³ | 25.2 |
| Residential Carcinogenic Risk | | 3.50E-07 |
| Residential Hazard Index | | 0.03 |
| Non-Residential Carcinogenic Risk | | 2.70E-08 |
| Non-Residential Hazard Index | | 0.0023 |

SS-5/SS-2 A&S

| Date | | 1/8/2010 | 7/12/2010 |
|-----------------------------------|-------|----------|-----------|
| Ethylbenzene | µg/m³ | NA | 5.2 |
| Tetrachloroethylene | µg/m³ | 56 | 57 |
| Toluene | µg/m³ | NA | 5.3 |
| Xylenes (Total) | µg/m³ | NA | 20.8 |
| Residential Carcinogenic Risk | | 1.60E-07 | 3.00E-07 |
| Residential Hazard Index | | 0.04 | 0.047 |
| Non-Residential Carcinogenic Risk | | 1.20E-08 | 2.30E-08 |
| Non-Residential Hazard Index | | 0.0032 | 0.0037 |

SS-2 Vacant

| Date | | 7/14/2010 |
|-----------------------------------|-------|-----------|
| Tetrachloroethylene | µg/m³ | 41 |
| Toluene | µg/m³ | 3.8 |
| Residential Carcinogenic Risk | | 1.10E-07 |
| Residential Hazard Index | | 0.03 |
| Non-Residential Carcinogenic Risk | | 8.70E-09 |
| Non-Residential Hazard Index | | 0.0023 |

SS-4

| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 14 |
| Residential Carcinogenic Risk | | 3.90E-08 |
| Residential Hazard Index | | 0.01 |
| Non-Residential Carcinogenic Risk | | 3.00E-09 |
| Non-Residential Hazard Index | | 0.0008 |

SS-3 Vacant

| Date | | 7/12/2010 |
|-----------------------------------|-------|-----------|
| Ethylbenzene | µg/m³ | 2.9 |
| Tetrachloroethylene | µg/m³ | 5.7 |
| Toluene | µg/m³ | 4.5 |
| Xylenes (Total) | µg/m³ | 4.3 |
| Residential Carcinogenic Risk | | 9.30E-08 |
| Residential Hazard Index | | 0.0054 |
| Non-Residential Carcinogenic Risk | | 7.10E-09 |
| Non-Residential Hazard Index | | 0.00043 |

SS-9/SS-3 Avalon

| Date | | 1/8/2010 | 7/12/2010 |
|-----------------------------------|-------|----------|-----------|
| Tetrachloroethylene | µg/m³ | 170 | 130 |
| Toluene | µg/m³ | NA | 2.4 |
| Residential Carcinogenic Risk | | 4.70E-07 | 3.60E-07 |
| Residential Hazard Index | | 0.12 | 0.094 |
| Non-Residential Carcinogenic Risk | | 3.60E-08 | 2.80E-08 |
| Non-Residential Hazard Index | | 0.0097 | 0.0074 |

SS-2

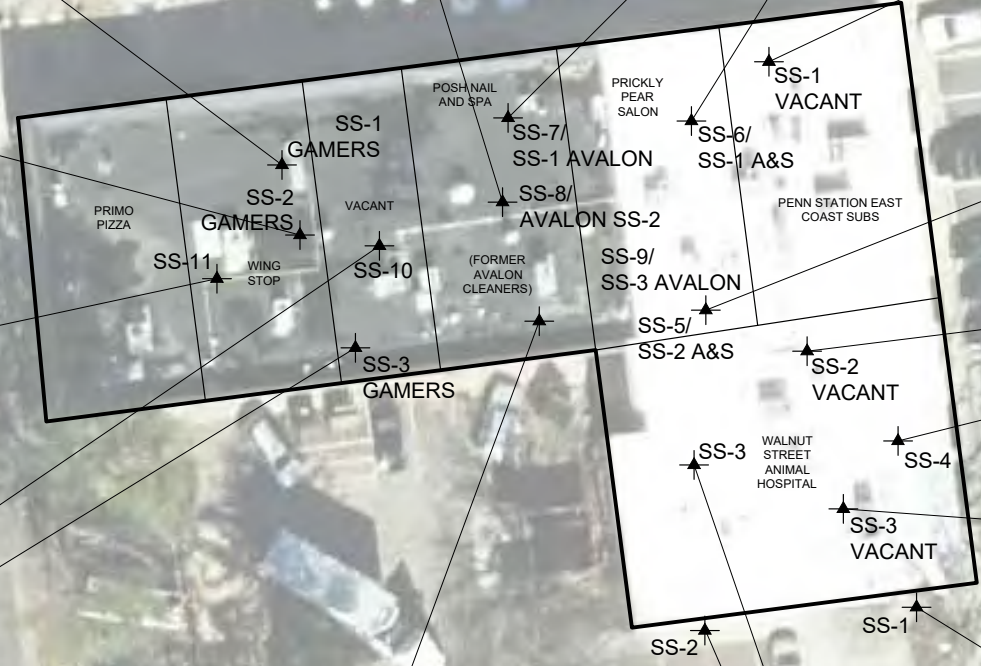
| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 21 |
| Residential Carcinogenic Risk | | 5.80E-08 |
| Residential Hazard Index | | 0.015 |
| Non-Residential Carcinogenic Risk | | 4.50E-09 |
| Non-Residential Hazard Index | | 0.0012 |

SS-3

| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 45 |
| Residential Carcinogenic Risk | | 1.30E-07 |
| Residential Hazard Index | | 0.032 |
| Non-Residential Carcinogenic Risk | | 9.50E-09 |
| Non-Residential Hazard Index | | 0.0026 |

SS-1

| Date | | 1/8/2010 |
|-----------------------------------|-------|----------|
| Tetrachloroethylene | µg/m³ | 12 |
| Residential Carcinogenic Risk | | 3.30E-08 |
| Residential Hazard Index | | 0.0086 |
| Non-Residential Carcinogenic Risk | | 2.50E-09 |
| Non-Residential Hazard Index | | 0.00068 |



Dim. By: DH
DSCA Site ID: DC920037
Project Number: DC9237SL22
Drawing File: SEE LOWER LEFT
App'd By: AO
Ck'd Date:

NOTES:
1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
2. Values are measured in micrograms per cubic meter (µg/m³).
3. BOLD values indicate exceedances of risk levels considered acceptable by the NC DSCA Program.
4. µg/m³ = Micrograms per cubic meter
5. NA = Not Analyzed
6. Values shown **BOLD** exceeds corresponding risk level.
7. All sampled collected prior to remedial injection activities.
COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

SUB-SLAB SOIL GAS QUALITY MAP
AVALON CLEANERS
686 CARY TOWNE BOULEVARD
CARY, NORTH CAROLINA

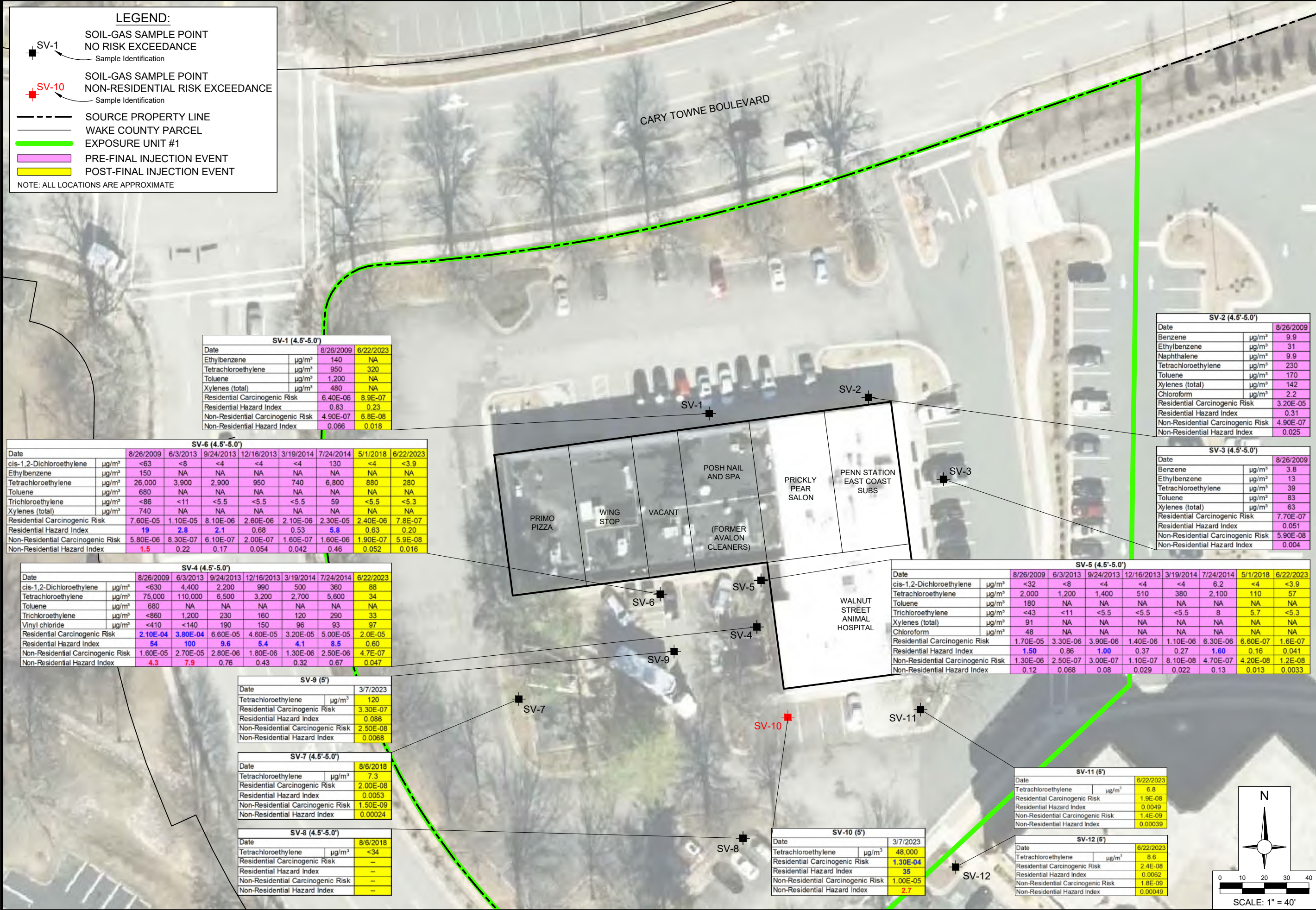
Date: 1/25
Scale: AS SHOWN
Figure: 6

C:\USERS\DAVID.HUGHES\ONEDRIVE - ONEATLAS\FILE SERVER\2024\CAD DEPARTMENT\NCDQ-DWM-DSCA PROGRAM\92-0037 AVALON CLEANERS\DC9237SL22-SG.DWG, FIG

LEGEND:

- SV-1 SOIL-GAS SAMPLE POINT NO RISK EXCEEDANCE
- SV-10 SOIL-GAS SAMPLE POINT NON-RESIDENTIAL RISK EXCEEDANCE
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCEL
- EXPOSURE UNIT #1
- PRE-FINAL INJECTION EVENT
- POST-FINAL INJECTION EVENT

NOTE: ALL LOCATIONS ARE APPROXIMATE



SV-1 (4.5'-5.0')

| Date | 8/26/2009 | 6/22/2023 |
|-----------------------------------|-----------|-----------|
| Ethylbenzene | 140 | NA |
| Tetrachloroethylene | 950 | 320 |
| Toluene | 1,200 | NA |
| Xylenes (total) | 480 | NA |
| Residential Carcinogenic Risk | 6.40E-06 | 8.9E-07 |
| Residential Hazard Index | 0.83 | 0.23 |
| Non-Residential Carcinogenic Risk | 4.90E-07 | 6.8E-08 |
| Non-Residential Hazard Index | 0.066 | 0.018 |

SV-6 (4.5'-5.0')

| Date | 8/26/2009 | 6/3/2013 | 9/24/2013 | 12/16/2013 | 3/19/2014 | 7/24/2014 | 5/1/2018 | 6/22/2023 |
|-----------------------------------|-----------|----------|-----------|------------|-----------|-----------|----------|-----------|
| cis-1,2-Dichloroethylene | <63 | <8 | <4 | <4 | <4 | 130 | <4 | <3.9 |
| Ethylbenzene | 150 | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethylene | 26,000 | 3,900 | 2,900 | 950 | 740 | 6,800 | 880 | 280 |
| Toluene | 680 | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethylene | <86 | <11 | <5.5 | <5.5 | <5.5 | 59 | <5.5 | <5.3 |
| Xylenes (total) | 740 | NA | NA | NA | NA | NA | NA | NA |
| Residential Carcinogenic Risk | 7.60E-05 | 1.10E-05 | 8.10E-06 | 2.60E-06 | 2.10E-06 | 2.30E-05 | 2.40E-06 | 7.8E-07 |
| Residential Hazard Index | 19 | 2.8 | 2.1 | 0.68 | 0.53 | 5.8 | 0.63 | 0.20 |
| Non-Residential Carcinogenic Risk | 5.80E-06 | 8.30E-07 | 6.10E-07 | 2.00E-07 | 1.60E-07 | 1.60E-06 | 1.90E-07 | 5.9E-08 |
| Non-Residential Hazard Index | 1.5 | 0.22 | 0.17 | 0.054 | 0.042 | 0.46 | 0.052 | 0.016 |

SV-4 (4.5'-5.0')

| Date | 8/26/2009 | 6/3/2013 | 9/24/2013 | 12/16/2013 | 3/19/2014 | 7/24/2014 | 5/1/2018 | 6/22/2023 |
|-----------------------------------|-----------|----------|-----------|------------|-----------|-----------|----------|-----------|
| cis-1,2-Dichloroethylene | <630 | 4,400 | 2,200 | 990 | 500 | 360 | 88 | 88 |
| Tetrachloroethylene | 75,000 | 110,000 | 6,500 | 3,200 | 2,700 | 5,600 | 34 | 34 |
| Toluene | 680 | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethylene | <860 | 1,200 | 230 | 160 | 120 | 290 | 33 | 33 |
| Vinyl chloride | <410 | <140 | 190 | 150 | 96 | 93 | 97 | 97 |
| Residential Carcinogenic Risk | 2.10E-04 | 3.80E-04 | 6.60E-05 | 4.60E-05 | 3.20E-05 | 5.00E-05 | 2.0E-05 | 2.0E-05 |
| Residential Hazard Index | 54 | 100 | 9.6 | 5.4 | 4.1 | 8.5 | 0.60 | 0.60 |
| Non-Residential Carcinogenic Risk | 1.60E-05 | 2.70E-05 | 2.80E-06 | 1.80E-06 | 1.30E-06 | 2.50E-06 | 4.7E-07 | 4.7E-07 |
| Non-Residential Hazard Index | 4.3 | 7.9 | 0.76 | 0.43 | 0.32 | 0.67 | 0.047 | 0.047 |

SV-9 (5')

| Date | 3/7/2023 |
|-----------------------------------|----------|
| Tetrachloroethylene | 120 |
| Residential Carcinogenic Risk | 3.30E-07 |
| Residential Hazard Index | 0.086 |
| Non-Residential Carcinogenic Risk | 2.50E-08 |
| Non-Residential Hazard Index | 0.0068 |

SV-7 (4.5'-5.0')

| Date | 8/6/2018 |
|-----------------------------------|----------|
| Tetrachloroethylene | 7.3 |
| Residential Carcinogenic Risk | 2.00E-08 |
| Residential Hazard Index | 0.0053 |
| Non-Residential Carcinogenic Risk | 1.50E-09 |
| Non-Residential Hazard Index | 0.00024 |

SV-8 (4.5'-5.0')

| Date | 8/6/2018 |
|-----------------------------------|----------|
| Tetrachloroethylene | <34 |
| Residential Carcinogenic Risk | -- |
| Residential Hazard Index | -- |
| Non-Residential Carcinogenic Risk | -- |
| Non-Residential Hazard Index | -- |

SV-2 (4.5'-5.0')

| Date | 8/26/2009 |
|-----------------------------------|-----------|
| Benzene | 9.9 |
| Ethylbenzene | 31 |
| Naphthalene | 9.9 |
| Tetrachloroethylene | 230 |
| Toluene | 170 |
| Xylenes (total) | 142 |
| Chloroform | 2.2 |
| Residential Carcinogenic Risk | 3.20E-05 |
| Residential Hazard Index | 0.31 |
| Non-Residential Carcinogenic Risk | 4.90E-07 |
| Non-Residential Hazard Index | 0.025 |

SV-3 (4.5'-5.0')

| Date | 8/26/2009 |
|-----------------------------------|-----------|
| Benzene | 3.8 |
| Ethylbenzene | 13 |
| Tetrachloroethylene | 39 |
| Toluene | 83 |
| Xylenes (total) | 63 |
| Residential Carcinogenic Risk | 7.70E-07 |
| Residential Hazard Index | 0.051 |
| Non-Residential Carcinogenic Risk | 5.90E-08 |
| Non-Residential Hazard Index | 0.004 |

SV-5 (4.5'-5.0')

| Date | 8/26/2009 | 6/3/2013 | 9/24/2013 | 12/16/2013 | 3/19/2014 | 7/24/2014 | 5/1/2018 | 6/22/2023 |
|-----------------------------------|-----------|----------|-----------|------------|-----------|-----------|----------|-----------|
| cis-1,2-Dichloroethylene | <32 | <8 | <4 | <4 | <4 | 6.2 | <4 | <3.9 |
| Tetrachloroethylene | 2,000 | 1,200 | 1,400 | 510 | 380 | 2,100 | 110 | 57 |
| Toluene | 180 | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethylene | <43 | <11 | <5.5 | <5.5 | <5.5 | 8 | 5.7 | <5.3 |
| Xylenes (total) | 91 | NA | NA | NA | NA | NA | NA | NA |
| Chloroform | 48 | NA | NA | NA | NA | NA | NA | NA |
| Residential Carcinogenic Risk | 1.70E-05 | 3.30E-06 | 3.90E-06 | 1.40E-06 | 1.10E-06 | 6.30E-06 | 6.60E-07 | 1.6E-07 |
| Residential Hazard Index | 1.50 | 0.86 | 1.00 | 0.37 | 0.27 | 1.60 | 0.16 | 0.041 |
| Non-Residential Carcinogenic Risk | 1.30E-06 | 2.50E-07 | 3.00E-07 | 1.10E-07 | 8.10E-08 | 4.70E-07 | 4.20E-08 | 1.2E-08 |
| Non-Residential Hazard Index | 0.12 | 0.068 | 0.08 | 0.029 | 0.022 | 0.13 | 0.013 | 0.0033 |

SV-10 (5')

| Date | 3/7/2023 |
|-----------------------------------|----------|
| Tetrachloroethylene | 48,000 |
| Residential Carcinogenic Risk | 1.30E-04 |
| Residential Hazard Index | 35 |
| Non-Residential Carcinogenic Risk | 1.00E-05 |
| Non-Residential Hazard Index | 2.7 |

SV-11 (5')

| Date | 6/22/2023 |
|-----------------------------------|-----------|
| Tetrachloroethylene | 6.8 |
| Residential Carcinogenic Risk | 1.9E-08 |
| Residential Hazard Index | 0.0049 |
| Non-Residential Carcinogenic Risk | 1.4E-09 |
| Non-Residential Hazard Index | 0.00039 |

SV-12 (5')

| Date | 6/22/2023 |
|-----------------------------------|-----------|
| Tetrachloroethylene | 8.6 |
| Residential Carcinogenic Risk | 2.4E-08 |
| Residential Hazard Index | 0.0062 |
| Non-Residential Carcinogenic Risk | 1.8E-09 |
| Non-Residential Hazard Index | 0.00049 |

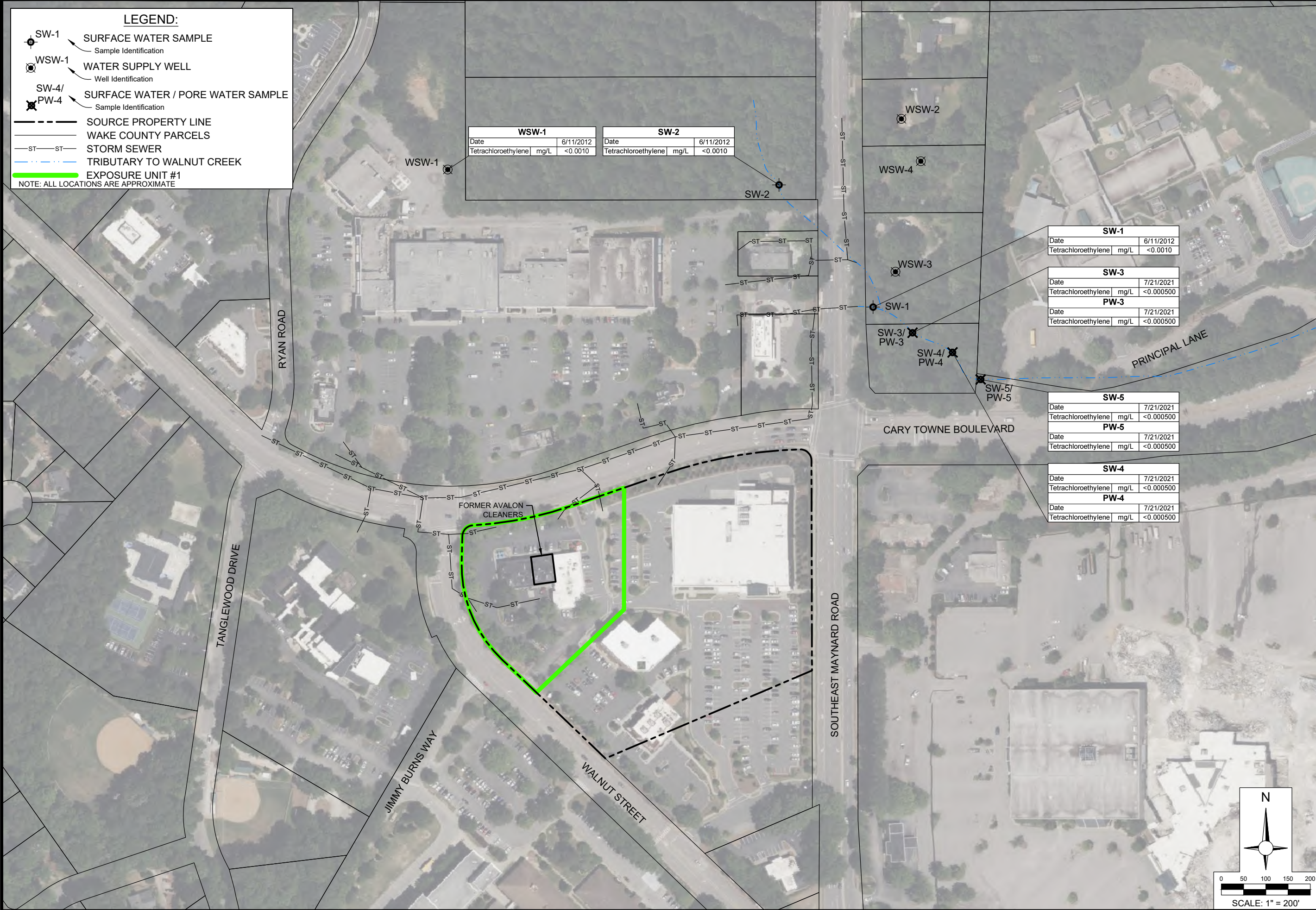
Dim. By: DH
 DSCA Site ID: DC920037
 Project Number: DC9237SL22
 Drawing File: SEE LOWER LEFT
 App'd By: AO
 Ck'd Date: **ATC**

NOTES:
 1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
 2. Values are measured in micrograms per cubic meter (µg/m³).
 3. Values **BOLD** indicate exceedances of risk levels considered acceptable by the NC DSCA Program.
 4. -- = Risk not quantifiable.
 5. NA = not analyzed.

COORDINATE SYSTEM: NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

SOIL-GAS QUALITY MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Attachment: 7



LEGEND:

- SW-1 SURFACE WATER SAMPLE
Sample Identification
- WSW-1 WATER SUPPLY WELL
Well Identification
- SW-4/
PW-4 SURFACE WATER / PORE WATER SAMPLE
Sample Identification
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCELS
- ST---ST--- STORM SEWER
- TRIBUTARY TO WALNUT CREEK
- EXPOSURE UNIT #1

NOTE: ALL LOCATIONS ARE APPROXIMATE

| WSW-1 | | | SW-2 | | |
|---------------------|-----------|---------|---------------------|-----------|---------|
| Date | 6/11/2012 | | Date | 6/11/2012 | |
| Tetrachloroethylene | mg/L | <0.0010 | Tetrachloroethylene | mg/L | <0.0010 |

| SW-1 | |
|---------------------|--------------|
| Date | 6/11/2012 |
| Tetrachloroethylene | mg/L <0.0010 |

| SW-3 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |

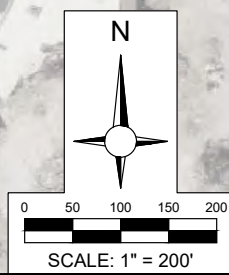
| PW-3 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |

| SW-5 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |


| PW-5 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |

| SW-4 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |

| PW-4 | |
|---------------------|----------------|
| Date | 7/21/2021 |
| Tetrachloroethylene | mg/L <0.000500 |



| | |
|-----------------|----------------|
| Dim. By: | DH |
| DSCA Site ID: | DC920037 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| App'd By: | AO |
| App'd Date: | |



NOTES:

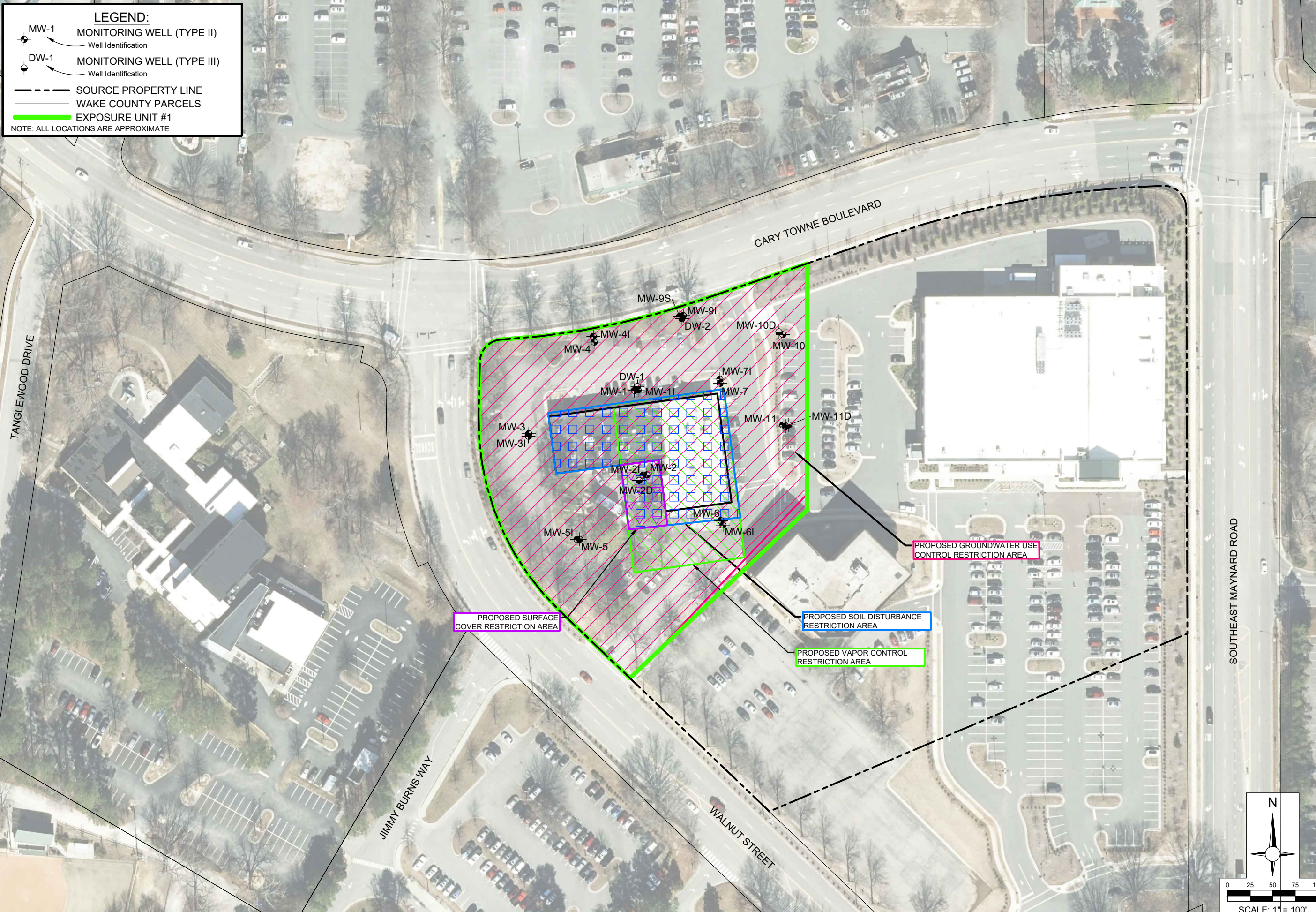
- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
- mg/L = milligrams per liter.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

**SURFACE WATER AND WATER SUPPLY WELL
QUALITY MAP**
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 8

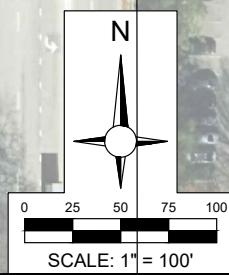
C:\USERS\DAVID.HUGHES\ONEDRIVE - ONEATLAS\FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-DWM-DSCA PROGRAM\92-0037 AVALON CLEANERS\DC9237SL22-LAND.DWG - FIG9



LEGEND:

- MW-1 MONITORING WELL (TYPE II)
Well Identification
- DW-1 MONITORING WELL (TYPE III)
Well Identification
- SOURCE PROPERTY LINE
- WAKE COUNTY PARCELS
- EXPOSURE UNIT #1

NOTE: ALL LOCATIONS ARE APPROXIMATE



| | | | |
|-----------------|------------|---------------|----------------|
| Dir. By: | DH | App'd By: | AO |
| DSCA Site ID: | DC920037 | Clkd. By: | AO |
| Project Number: | DC9237SL22 | Drawing File: | SEE LOWER LEFT |
| ATC | | | |

NOTES:

- Features shown are not an authoritative location, nor are they presented to a stated accuracy.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200 - US SURVEY FEET

LAND-USE CONTROL AREAS MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 1/25
 Scale: AS SHOWN
 Figure: 9

APPENDIX A

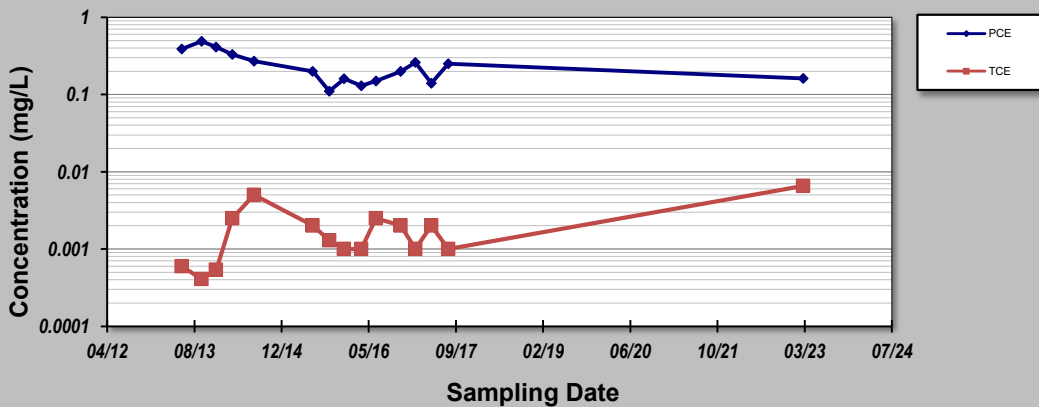
PLUME STABILITY DEMONSTRATION

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|--|
| Evaluation Date: 24-Apr-23 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-1 - Baseline Event and Post-Initial Injection |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

| | | | | | |
|--------------------|------------|------------|--|--|--|
| Sampling Point ID: | PCE | TCE | | | |
|--------------------|------------|------------|--|--|--|

| Sampling Event | Sampling Date | MW-1 - BASELINE EVENT AND POST-INITIAL INJECTION CONCENTRATION (mg/L) | | | | | |
|-----------------------------|---------------|---|----------|--|--|--|--|
| 1 | 4-Jun-13 | 0.39 | 0.0006 | | | | |
| 2 | 25-Sep-13 | 0.49 | 0.00041 | | | | |
| 3 | 17-Dec-13 | 0.41 | 0.00054 | | | | |
| 4 | 20-Mar-14 | 0.33 | 0.0025 | | | | |
| 5 | 23-Jul-14 | 0.27 | 0.005 | | | | |
| 6 | 24-Jun-15 | 0.20 | 0.002 | | | | |
| 7 | 27-Sep-15 | 0.11 | 0.0013 | | | | |
| 8 | 21-Dec-15 | 0.16 | 0.001 | | | | |
| 9 | 28-Mar-16 | 0.13 | 0.001 | | | | |
| 10 | 20-Jun-16 | 0.15 | 0.0025 | | | | |
| 11 | 10-Nov-16 | 0.20 | 0.002 | | | | |
| 12 | 2-Feb-17 | 0.26 | 0.001 | | | | |
| 13 | 4-May-17 | 0.14 | 0.002 | | | | |
| 14 | 10-Aug-17 | 0.25 | 0.0010 | | | | |
| 15 | 7-Mar-23 | 0.161 | 0.00653 | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| Coefficient of Variation: | | 0.47 | 0.87 | | | | |
| Mann-Kendall Statistic (S): | | -44 | 25 | | | | |
| Confidence Factor: | | 98.4% | 88.0% | | | | |
| Concentration Trend: | | Decreasing | No Trend | | | | |



Notes:

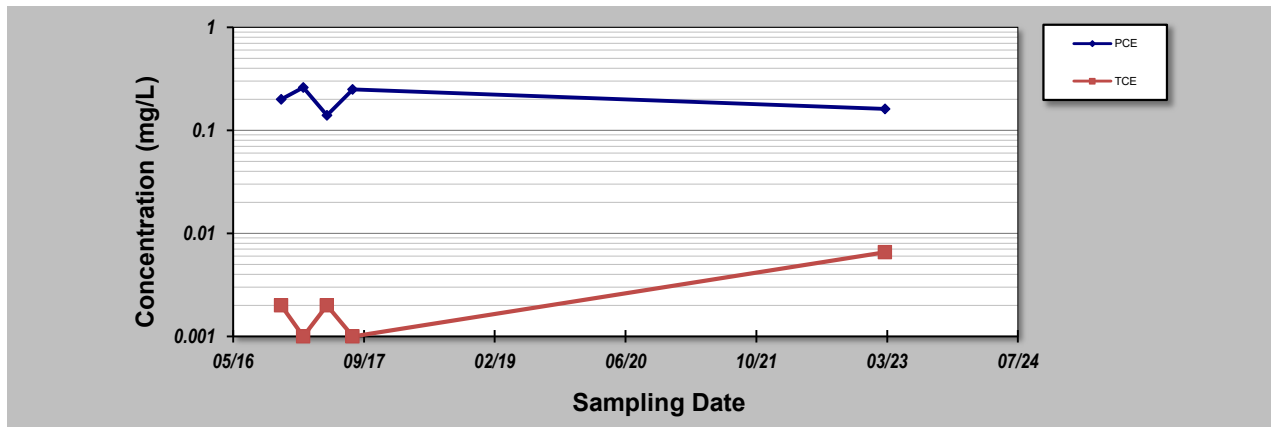
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **24-Apr-23** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-1 - Post August 2016 Injection (Final Event)**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | | | | |
|-----------------------------|---------------|--|----------|--|--|--|--|
| Sampling Event | Sampling Date | MW-1 - POST AUGUST 2016 INJECTION (FINAL EVENT) CONCENTRATION (mg/L) | | | | | |
| 1 | 10-Nov-16 | 0.20 | 0.002 | | | | |
| 2 | 2-Feb-17 | 0.26 | 0.001 | | | | |
| 3 | 4-May-17 | 0.14 | 0.002 | | | | |
| 4 | 10-Aug-17 | 0.25 | 0.0010 | | | | |
| 5 | 7-Mar-23 | 0.161 | 0.00653 | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| Coefficient of Variation: | | 0.26 | 0.92 | | | | |
| Mann-Kendall Statistic (S): | | -2 | 2 | | | | |
| Confidence Factor: | | 59.2% | 59.2% | | | | |
| Concentration Trend: | | Stable | No Trend | | | | |



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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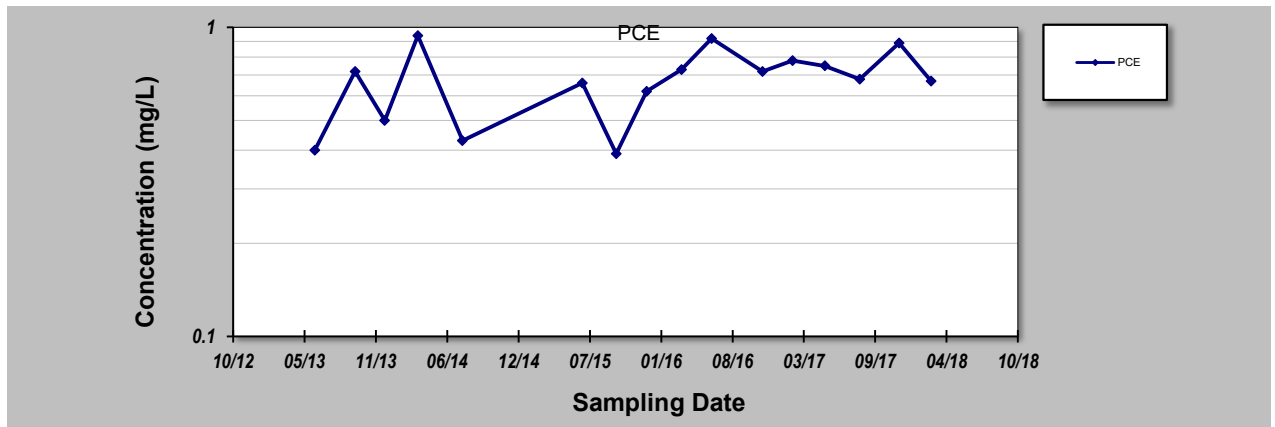
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **24-Apr-23** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-1I- Baseline Event and Post-Initial Injection**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | MW-1I- BASELINE EVENT AND POST-INITIAL INJECTION CONCENTRATION (mg/L) | | | | | | | |
|----------------|---------------|---|--|--|--|--|--|--|--|
| 1 | 4-Jun-13 | 0.40 | | | | | | | |
| 2 | 25-Sep-13 | 0.72 | | | | | | | |
| 3 | 17-Dec-13 | 0.50 | | | | | | | |
| 4 | 20-Mar-14 | 0.94 | | | | | | | |
| 5 | 23-Jul-14 | 0.43 | | | | | | | |
| 6 | 24-Jun-15 | 0.66 | | | | | | | |
| 7 | 27-Sep-15 | 0.39 | | | | | | | |
| 8 | 21-Dec-15 | 0.62 | | | | | | | |
| 9 | 28-Mar-16 | 0.73 | | | | | | | |
| 10 | 20-Jun-16 | 0.92 | | | | | | | |
| 11 | 10-Nov-16 | 0.72 | | | | | | | |
| 12 | 2-Feb-17 | 0.78 | | | | | | | |
| 13 | 4-May-17 | 0.75 | | | | | | | |
| 14 | 10-Aug-17 | 0.68 | | | | | | | |
| 15 | 28-Nov-17 | 0.89 | | | | | | | |
| 16 | 26-Feb-18 | 0.67 | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |

| | | | | | | | | | |
|-----------------------------|------------------|--|--|--|--|--|--|--|--|
| Coefficient of Variation: | 0.26 | | | | | | | | |
| Mann-Kendall Statistic (S): | 33 | | | | | | | | |
| Confidence Factor: | 92.4% | | | | | | | | |
| Concentration Trend: | Prob. Increasing | | | | | | | | |



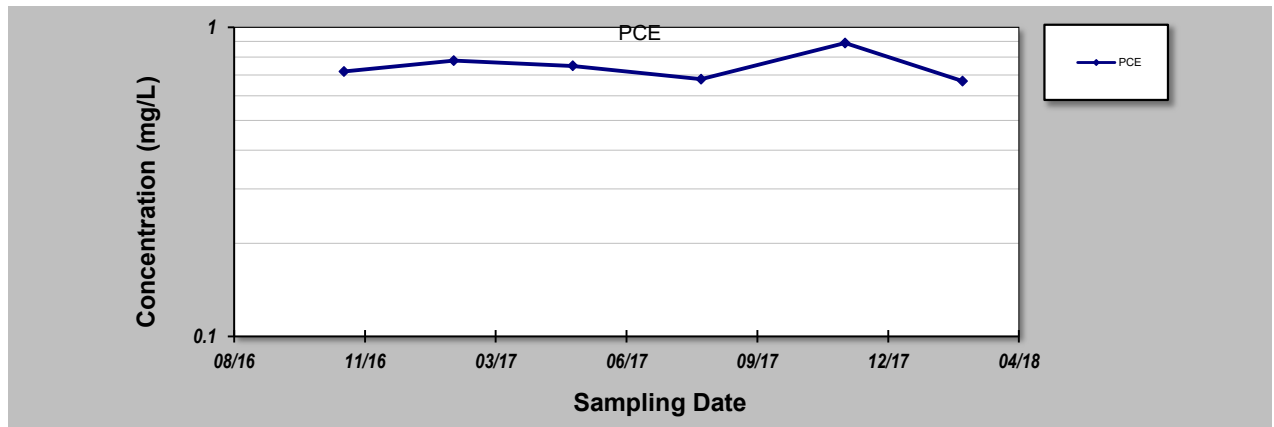
- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **24-Apr-23** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-11 - Post August 2016 Injection (Final Event)**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

| Sampling Point ID: PCE | | | | | | | | |
|-------------------------------|---------------|---|--|--|--|--|--|--|
| Sampling Event | Sampling Date | MW-11 - POST AUGUST 2016 INJECTION (FINAL EVENT) CONCENTRATION (mg/L) | | | | | | |
| 1 | 10-Nov-16 | 0.72 | | | | | | |
| 2 | 2-Feb-17 | 0.78 | | | | | | |
| 3 | 4-May-17 | 0.75 | | | | | | |
| 4 | 10-Aug-17 | 0.68 | | | | | | |
| 5 | 28-Nov-17 | 0.89 | | | | | | |
| 6 | 26-Feb-18 | 0.67 | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 0.11 | | | | | | |
| Mann-Kendall Statistic (S): | | -3 | | | | | | |
| Confidence Factor: | | 64.0% | | | | | | |
| Concentration Trend: | | Stable | | | | | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

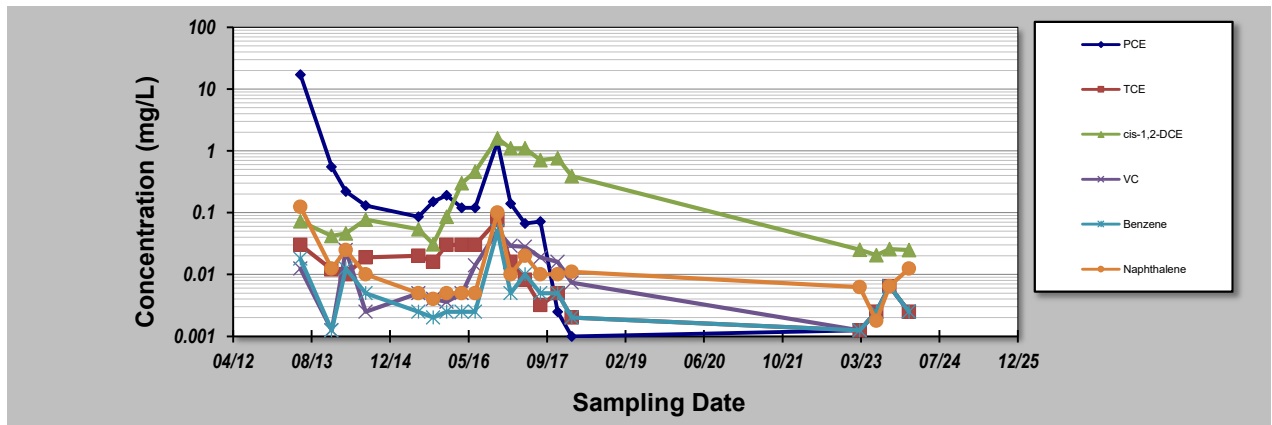
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24**
 Facility Name: **Avalon Cleaners**
 Conducted By: **ATC Associates of North Carolina, P.C.**

Job ID: **DC920037**
 Constituent: **MW-2 - Baseline Event and Post-Initial Injection**
 Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Benzene | Naphthalene | |
|-----------------------------|---------------|---|------------|-------------|----------|----------|-------------|--|
| Sampling Event | Sampling Date | MW-2 - BASELINE EVENT AND POST-INITIAL INJECTION CONCENTRATION (mg/L) | | | | | | |
| 1 | 4-Jun-13 | 17 | 0.03 | 0.073 | 0.0125 | 0.018 | 0.125 | |
| 2 | 19-Dec-13 | 0.55 | 0.012 | 0.042 | 0.00125 | 0.00125 | 0.0125 | |
| 3 | 20-Mar-14 | 0.22 | 0.01 | 0.046 | 0.025 | 0.0125 | 0.025 | |
| 4 | 24-Jul-14 | 0.13 | 0.019 | 0.077 | 0.0025 | 0.005 | 0.01 | |
| 5 | 26-Jun-15 | 0.086 | 0.02 | 0.054 | 0.005 | 0.0025 | 0.005 | |
| 6 | 27-Sep-15 | 0.15 | 0.016 | 0.031 | 0.004 | 0.002 | 0.004 | |
| 7 | 22-Dec-15 | 0.19 | 0.03 | 0.086 | 0.0036 | 0.0025 | 0.005 | |
| 8 | 28-Mar-16 | 0.12 | 0.03 | 0.3 | 0.005 | 0.0025 | 0.005 | |
| 9 | 21-Jun-16 | 0.12 | 0.03 | 0.46 | 0.014 | 0.0025 | 0.005 | |
| 10 | 10-Nov-16 | 1.4 | 0.075 | 1.6 | 0.051 | 0.05 | 0.1 | |
| 11 | 2-Feb-17 | 0.14 | 0.016 | 1.1 | 0.029 | 0.005 | 0.01 | |
| 12 | 4-May-17 | 0.067 | 0.0082 | 1.1 | 0.028 | 0.01 | 0.02 | |
| 13 | 10-Aug-17 | 0.072 | 0.0032 | 0.71 | 0.019 | 0.005 | 0.01 | |
| 14 | 28-Nov-17 | 0.0025 | 0.005 | 0.76 | 0.016 | 0.005 | 0.01 | |
| 15 | 26-Feb-18 | 0.001 | 0.002 | 0.39 | 0.0074 | 0.002 | 0.011 | |
| 16 | 7-Mar-23 | 0.00125 | 0.00125 | 0.0251 | 0.00125 | 0.00125 | 0.00625 | |
| 17 | 21-Jun-23 | 0.0025 | 0.0025 | 0.0206 | 0.0025 | 0.0025 | 0.00178 | |
| 18 | 12-Sep-23 | 0.0065 | 0.0065 | 0.0259 | 0.0065 | 0.0065 | 0.0065 | |
| 19 | 16-Jan-24 | 0.0025 | 0.0025 | 0.0248 | 0.0025 | 0.0025 | 0.0125 | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 3.63 | 1.04 | 1.30 | 1.05 | 1.54 | 1.64 | |
| Mann-Kendall Statistic (S): | | -109 | -77 | -2 | -4 | -14 | -20 | |
| Confidence Factor: | | >99.9% | 99.7% | 51.4% | 54.1% | 67.4% | 74.4% | |
| Concentration Trend: | | Decreasing | Decreasing | No Trend | No Trend | No Trend | No Trend | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

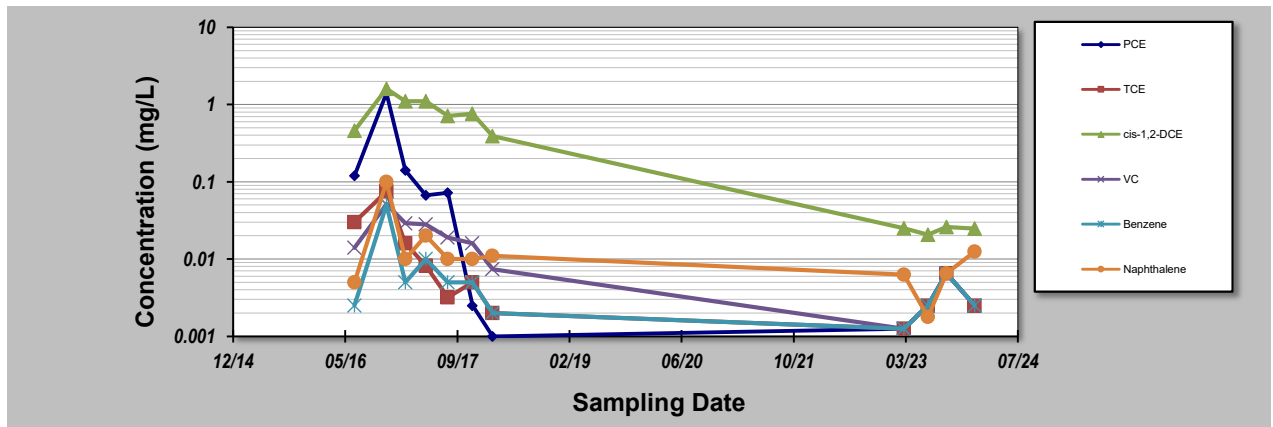
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24**
 Facility Name: **Avalon Cleaners**
 Conducted By: **ATC Associates of North Carolina, P.C.**

Job ID: **DC920037**
 Constituent: **MW-2 - Post August 2016 Injection (Final Event)**
 Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Benzene | Naphthalene | |
|-----------------------------|---------------|--|------------|-------------|------------|----------|-------------|--|
| Sampling Event | Sampling Date | MW-2 - POST AUGUST 2016 INJECTION (FINAL EVENT) CONCENTRATION (mg/L) | | | | | | |
| 1 | 21-Jun-16 | 0.12 | 0.03 | 0.46 | 0.014 | 0.0025 | 0.005 | |
| 2 | 10-Nov-16 | 1.4 | 0.075 | 1.6 | 0.051 | 0.05 | 0.1 | |
| 3 | 2-Feb-17 | 0.14 | 0.016 | 1.1 | 0.029 | 0.005 | 0.01 | |
| 4 | 4-May-17 | 0.067 | 0.0082 | 1.1 | 0.028 | 0.01 | 0.02 | |
| 5 | 10-Aug-17 | 0.072 | 0.0032 | 0.71 | 0.019 | 0.005 | 0.01 | |
| 6 | 28-Nov-17 | 0.0025 | 0.005 | 0.76 | 0.016 | 0.005 | 0.01 | |
| 7 | 26-Feb-18 | 0.001 | 0.002 | 0.39 | 0.0074 | 0.002 | 0.011 | |
| 8 | 7-Mar-23 | 0.00125 | 0.00125 | 0.0251 | 0.00125 | 0.00125 | 0.00625 | |
| 9 | 21-Jun-23 | 0.0025 | 0.0025 | 0.0206 | 0.0025 | 0.0025 | 0.00178 | |
| 10 | 12-Sep-23 | 0.0065 | 0.0065 | 0.0259 | 0.0065 | 0.0065 | 0.0065 | |
| 11 | 16-Jan-24 | 0.0025 | 0.0025 | 0.0248 | 0.0025 | 0.0025 | 0.0125 | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
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| 19 | | | | | | | | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 2.50 | 1.59 | 0.96 | 0.94 | 1.67 | 1.58 | |
| Mann-Kendall Statistic (S): | | -28 | -32 | -36 | -36 | -15 | -8 | |
| Confidence Factor: | | 98.4% | 99.4% | 99.8% | 99.8% | 85.9% | 70.3% | |
| Concentration Trend: | | Decreasing | Decreasing | Decreasing | Decreasing | No Trend | No Trend | |



Notes:

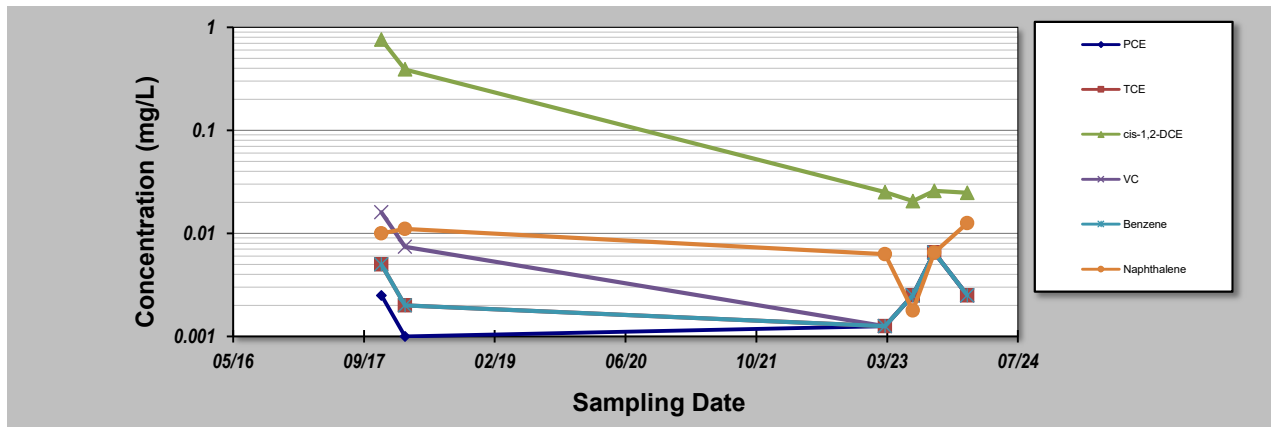
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-2 - Last Six Events**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Benzene | Naphthalene | |
|-----------------------------|---------------|---|----------|------------------|---------|----------|-------------|--|
| Sampling Event | Sampling Date | MW-2 - LAST SIX EVENTS CONCENTRATION (mg/L) | | | | | | |
| 1 | 28-Nov-17 | 0.0025 | 0.005 | 0.76 | 0.016 | 0.005 | 0.01 | |
| 2 | 26-Feb-18 | 0.001 | 0.002 | 0.39 | 0.0074 | 0.002 | 0.011 | |
| 3 | 7-Mar-23 | 0.00125 | 0.00125 | 0.0251 | 0.00125 | 0.00125 | 0.00625 | |
| 4 | 21-Jun-23 | 0.0025 | 0.0025 | 0.0206 | 0.0025 | 0.0025 | 0.00178 | |
| 5 | 12-Sep-23 | 0.0065 | 0.0065 | 0.0259 | 0.0065 | 0.0065 | 0.0065 | |
| 6 | 16-Jan-24 | 0.0025 | 0.0025 | 0.0248 | 0.0025 | 0.0025 | 0.0125 | |
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| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 0.73 | 0.61 | 1.48 | 0.91 | 0.61 | 0.49 | |
| Mann-Kendall Statistic (S): | | 6 | 2 | -9 | -6 | 2 | 1 | |
| Confidence Factor: | | 81.5% | 57.0% | 93.2% | 81.5% | 57.0% | 50.0% | |
| Concentration Trend: | | No Trend | No Trend | Prob. Decreasing | Stable | No Trend | No Trend | |



Notes:

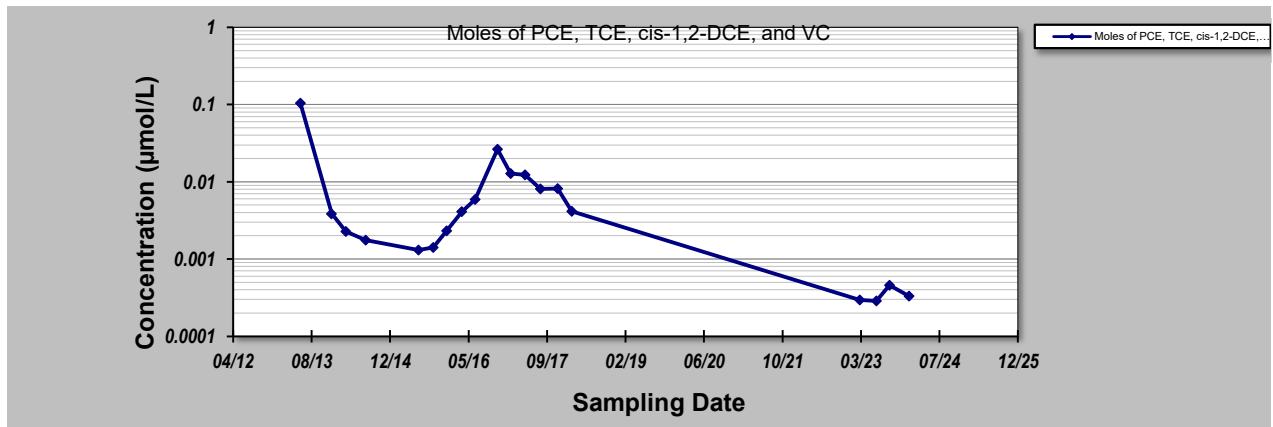
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|--|------------------------------------|
| Evaluation Date: 16-Jan-24 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-2 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: µmol/L |
| Sampling Point ID: Moles of PCE, TCE, cis-1,2-DCE, and VC | |

| Sampling Event | Sampling Date | MW-2 CONCENTRATION (µmol/L) | | | | | | | |
|-----------------------------|---------------|-----------------------------|--|--|--|--|--|--|--|
| 1 | 4-Jun-13 | 0.103695906 | | | | | | | |
| 2 | 19-Dec-13 | 0.003861187 | | | | | | | |
| 3 | 20-Mar-14 | 0.002277248 | | | | | | | |
| 4 | 24-Jul-14 | 0.001762757 | | | | | | | |
| 5 | 26-Jun-15 | 0.001307801 | | | | | | | |
| 6 | 27-Sep-15 | 0.001410061 | | | | | | | |
| 7 | 22-Dec-15 | 0.002318719 | | | | | | | |
| 8 | 28-Mar-16 | 0.004126324 | | | | | | | |
| 9 | 21-Jun-16 | 0.005920664 | | | | | | | |
| 10 | 10-Nov-16 | 0.026332535 | | | | | | | |
| 11 | 2-Feb-17 | 0.012776073 | | | | | | | |
| 12 | 4-May-17 | 0.012260502 | | | | | | | |
| 13 | 10-Aug-17 | 0.008085905 | | | | | | | |
| 14 | 28-Nov-17 | 0.008148228 | | | | | | | |
| 15 | 26-Feb-18 | 0.004162347 | | | | | | | |
| 16 | 7-Mar-23 | 0.000295948 | | | | | | | |
| 17 | 21-Jun-23 | 0.000286583 | | | | | | | |
| 18 | 12-Sep-23 | 0.000459815 | | | | | | | |
| 19 | 16-Jan-24 | 0.000329905 | | | | | | | |
| 20 | | | | | | | | | |
| Coefficient of Variation: | | 2.23 | | | | | | | |
| Mann-Kendall Statistic (S): | | -31 | | | | | | | |
| Confidence Factor: | | 85.1% | | | | | | | |
| Concentration Trend: | | No Trend | | | | | | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

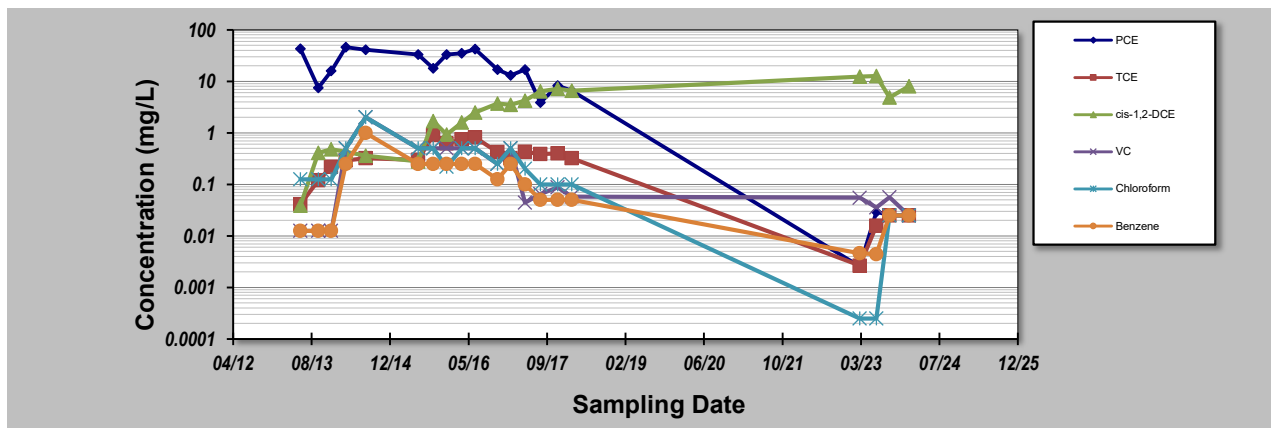
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24**
 Facility Name: **Avalon Cleaners**
 Conducted By: **ATC Associates of North Carolina, P.C.**

Job ID: **DC920037**
 Constituent: **MW-21 - Baseline Event and Post-Initial Injection**
 Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Chloroform | Benzene | |
|-----------------------------|---------------|--|---------|-------------|------------------|------------|------------|--|
| Sampling Event | Sampling Date | MW-21 - BASELINE EVENT AND POST-INITIAL INJECTION CONCENTRATION (mg/L) | | | | | | |
| 1 | 4-Jun-13 | 43 | 0.041 | 0.039 | 0.0125 | 0.125 | 0.0125 | |
| 2 | 25-Sep-13 | 7.5 | 0.12 | 0.41 | 0.0125 | 0.125 | 0.0125 | |
| 3 | 17-Dec-13 | 16 | 0.22 | 0.48 | 0.0125 | 0.125 | 0.0125 | |
| 4 | 20-Mar-14 | 46 | 0.29 | 0.43 | 0.5 | 0.5 | 0.25 | |
| 5 | 24-Jul-14 | 41 | 0.32 | 0.36 | 2 | 2 | 1 | |
| 6 | 24-Jun-15 | 33 | 0.3 | 0.28 | 0.5 | 0.5 | 0.25 | |
| 7 | 27-Sep-15 | 18 | 0.9 | 1.7 | 0.5 | 0.5 | 0.25 | |
| 8 | 22-Dec-15 | 33 | 0.62 | 0.93 | 0.5 | 0.22 | 0.25 | |
| 9 | 28-Mar-16 | 35 | 0.75 | 1.6 | 0.5 | 0.5 | 0.25 | |
| 10 | 21-Jun-16 | 42 | 0.82 | 2.5 | 0.5 | 0.5 | 0.25 | |
| 11 | 10-Nov-16 | 17 | 0.42 | 3.7 | 0.25 | 0.25 | 0.125 | |
| 12 | 2-Feb-17 | 13 | 0.32 | 3.5 | 0.5 | 0.5 | 0.25 | |
| 13 | 4-May-17 | 17 | 0.43 | 4.2 | 0.044 | 0.2 | 0.1 | |
| 14 | 10-Aug-17 | 3.9 | 0.39 | 6.4 | 0.065 | 0.1 | 0.05 | |
| 15 | 28-Nov-17 | 8.3 | 0.4 | 7.2 | 0.087 | 0.1 | 0.05 | |
| 16 | 26-Feb-18 | 6.6 | 0.32 | 6.6 | 0.058 | 0.1 | 0.05 | |
| 17 | 7-Mar-23 | 0.00256 | 0.00265 | 12.4 | 0.055 | 0.00025 | 0.00458 | |
| 18 | 21-Jun-23 | 0.0293 | 0.0158 | 12.7 | 0.0356 | 0.00025 | 0.00443 | |
| 19 | 12-Sep-23 | 0.025 | 0.025 | 4.85 | 0.056 | 0.025 | 0.025 | |
| 20 | 16-Jan-24 | 0.025 | 0.025 | 8.03 | 0.025 | 0.025 | 0.025 | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| Coefficient of Variation: | | 0.86 | 0.80 | 1.00 | 1.46 | 1.38 | 1.39 | |
| Mann-Kendall Statistic (S): | | -113 | -16 | 152 | -44 | -87 | -60 | |
| Confidence Factor: | | >99.9% | 68.5% | >99.9% | 91.8% | 99.8% | 97.3% | |
| Concentration Trend: | | Decreasing | Stable | Increasing | Prob. Decreasing | Decreasing | Decreasing | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

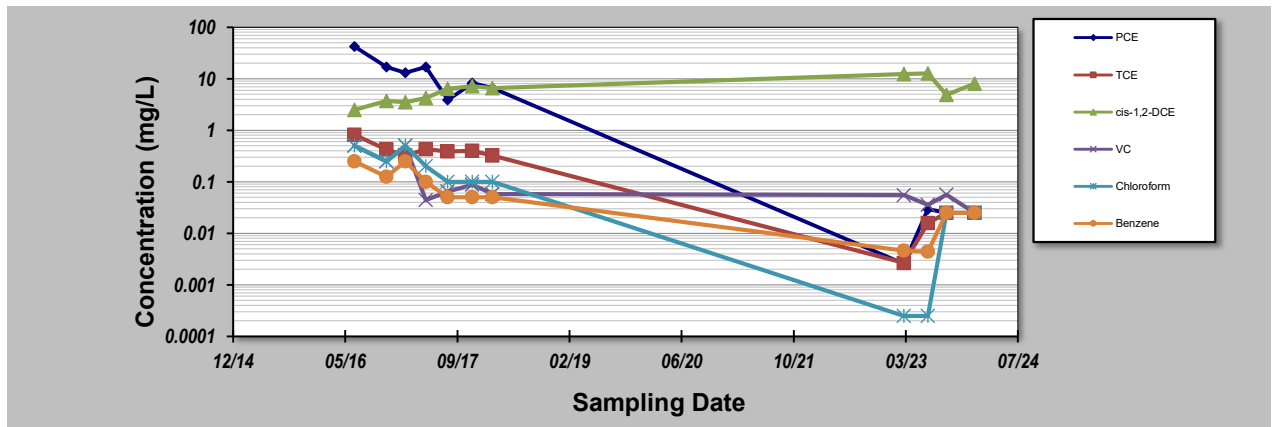
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24**
 Facility Name: **Avalon Cleaners**
 Conducted By: **ATC Associates of North Carolina, P.C.**

Job ID: **DC920037**
 Constituent: **MW-2I - Post August 2016 Injection (Final Event)**
 Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Chloroform | Benzene | |
|-----------------------------|---------------|---|------------|-------------|------------|------------|------------|--|
| Sampling Event | Sampling Date | MW-2I - POST AUGUST 2016 INJECTION (FINAL EVENT) CONCENTRATION (mg/L) | | | | | | |
| 1 | 21-Jun-16 | 42 | 0.82 | 2.5 | 0.5 | 0.5 | 0.25 | |
| 2 | 10-Nov-16 | 17 | 0.42 | 3.7 | 0.25 | 0.25 | 0.125 | |
| 3 | 2-Feb-17 | 13 | 0.32 | 3.5 | 0.5 | 0.5 | 0.25 | |
| 4 | 4-May-17 | 17 | 0.43 | 4.2 | 0.044 | 0.2 | 0.1 | |
| 5 | 10-Aug-17 | 3.9 | 0.39 | 6.4 | 0.065 | 0.1 | 0.05 | |
| 6 | 28-Nov-17 | 8.3 | 0.4 | 7.2 | 0.087 | 0.1 | 0.05 | |
| 7 | 26-Feb-18 | 6.6 | 0.32 | 6.6 | 0.058 | 0.1 | 0.05 | |
| 8 | 7-Mar-23 | 0.00256 | 0.00265 | 12.4 | 0.055 | 0.00025 | 0.00458 | |
| 9 | 21-Jun-23 | 0.0293 | 0.0158 | 12.7 | 0.0356 | 0.00025 | 0.00443 | |
| 10 | 12-Sep-23 | 0.025 | 0.025 | 4.85 | 0.056 | 0.025 | 0.025 | |
| 11 | 16-Jan-24 | 0.025 | 0.025 | 8.03 | 0.025 | 0.025 | 0.025 | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
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| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 1.28 | 0.88 | 0.52 | 1.20 | 1.12 | 1.05 | |
| Mann-Kendall Statistic (S): | | -41 | -33 | 37 | -36 | -39 | -40 | |
| Confidence Factor: | | 100.0% | 99.5% | 99.8% | 99.8% | 99.9% | 100.0% | |
| Concentration Trend: | | Decreasing | Decreasing | Increasing | Decreasing | Decreasing | Decreasing | |



Notes:

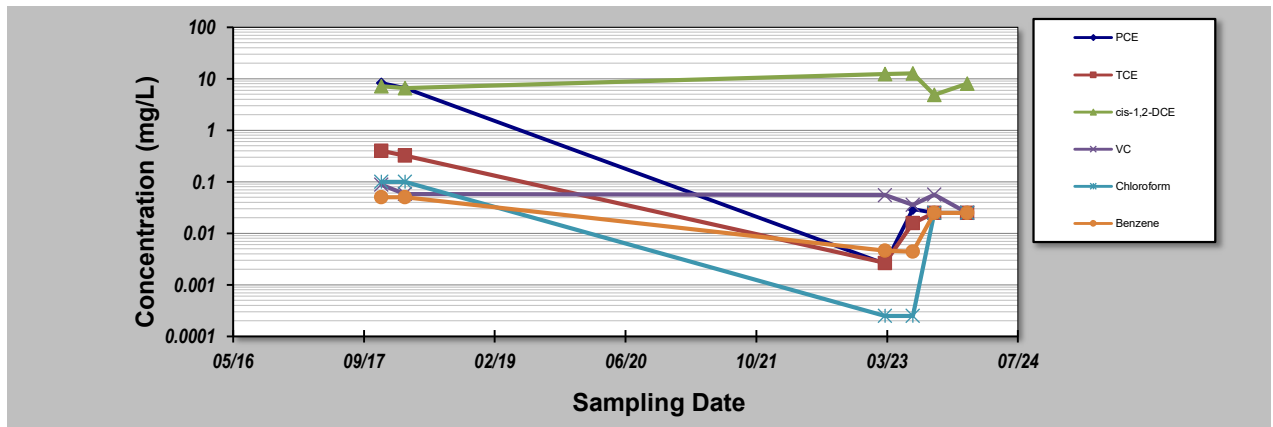
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **16-Jan-24** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-21 - Last Six Events**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

| Sampling Point ID: | | PCE | TCE | cis-1,2-DCE | VC | Chloroform | Benzene | |
|-----------------------------|---------------|--|----------|-------------|------------|------------|---------|--|
| Sampling Event | Sampling Date | MW-21 - LAST SIX EVENTS CONCENTRATION (mg/L) | | | | | | |
| 1 | 28-Nov-17 | 8.3 | 0.4 | 7.2 | 0.087 | 0.1 | 0.05 | |
| 2 | 26-Feb-18 | 6.6 | 0.32 | 6.6 | 0.058 | 0.1 | 0.05 | |
| 3 | 7-Mar-23 | 0.00256 | 0.00265 | 12.4 | 0.055 | 0.00025 | 0.00458 | |
| 4 | 21-Jun-23 | 0.0293 | 0.0158 | 12.7 | 0.0356 | 0.00025 | 0.00443 | |
| 5 | 12-Sep-23 | 0.025 | 0.025 | 4.85 | 0.056 | 0.025 | 0.025 | |
| 6 | 16-Jan-24 | 0.025 | 0.025 | 8.03 | 0.025 | 0.025 | 0.025 | |
| 7 | | | | | | | | |
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| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| Coefficient of Variation: | | 1.55 | 1.36 | 0.37 | 0.40 | 1.11 | 0.77 | |
| Mann-Kendall Statistic (S): | | -8 | -4 | 1 | -11 | -4 | -5 | |
| Confidence Factor: | | 89.8% | 70.3% | 50.0% | 97.2% | 70.3% | 76.5% | |
| Concentration Trend: | | No Trend | No Trend | No Trend | Decreasing | No Trend | Stable | |



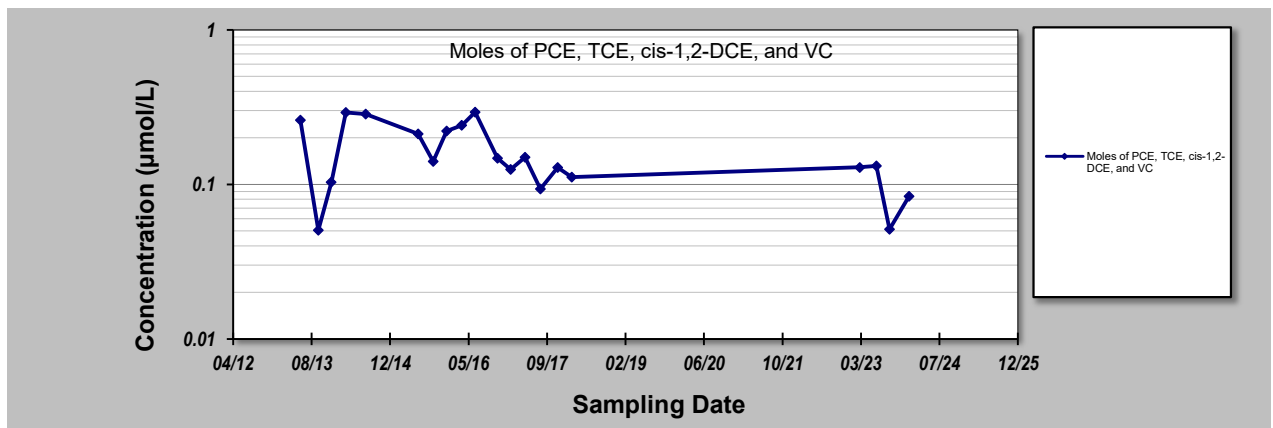
- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|--|------------------------------------|
| Evaluation Date: 16-Jan-24 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-21 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: µmol/L |
| Sampling Point ID: Moles of PCE, TCE, cis-1,2-DCE, and VC | |

| Sampling Event | Sampling Date | MW-21 CONCENTRATION (µmol/L) | | | | | | | |
|-----------------------------|---------------|------------------------------|--|--|--|--|--|--|--|
| 1 | 4-Jun-13 | 0.260215994 | | | | | | | |
| 2 | 25-Sep-13 | 0.050569272 | | | | | | | |
| 3 | 17-Dec-13 | 0.103309641 | | | | | | | |
| 4 | 20-Mar-14 | 0.292035044 | | | | | | | |
| 5 | 24-Jul-14 | 0.285390741 | | | | | | | |
| 6 | 24-Jun-15 | 0.212170423 | | | | | | | |
| 7 | 27-Sep-15 | 0.140929278 | | | | | | | |
| 8 | 22-Dec-15 | 0.221310221 | | | | | | | |
| 9 | 28-Mar-16 | 0.24127089 | | | | | | | |
| 10 | 21-Jun-16 | 0.293298653 | | | | | | | |
| 11 | 10-Nov-16 | 0.147875101 | | | | | | | |
| 12 | 2-Feb-17 | 0.124930187 | | | | | | | |
| 13 | 4-May-17 | 0.149812396 | | | | | | | |
| 14 | 10-Aug-17 | 0.093539539 | | | | | | | |
| 15 | 28-Nov-17 | 0.128752527 | | | | | | | |
| 16 | 26-Feb-18 | 0.111239465 | | | | | | | |
| 17 | 7-Mar-23 | 0.128875303 | | | | | | | |
| 18 | 21-Jun-23 | 0.131889963 | | | | | | | |
| 19 | 12-Sep-23 | 0.051262831 | | | | | | | |
| 20 | 16-Jan-24 | 0.083567227 | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| Coefficient of Variation: | | 0.48 | | | | | | | |
| Mann-Kendall Statistic (S): | | -64 | | | | | | | |
| Confidence Factor: | | 98.0% | | | | | | | |
| Concentration Trend: | | Decreasing | | | | | | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

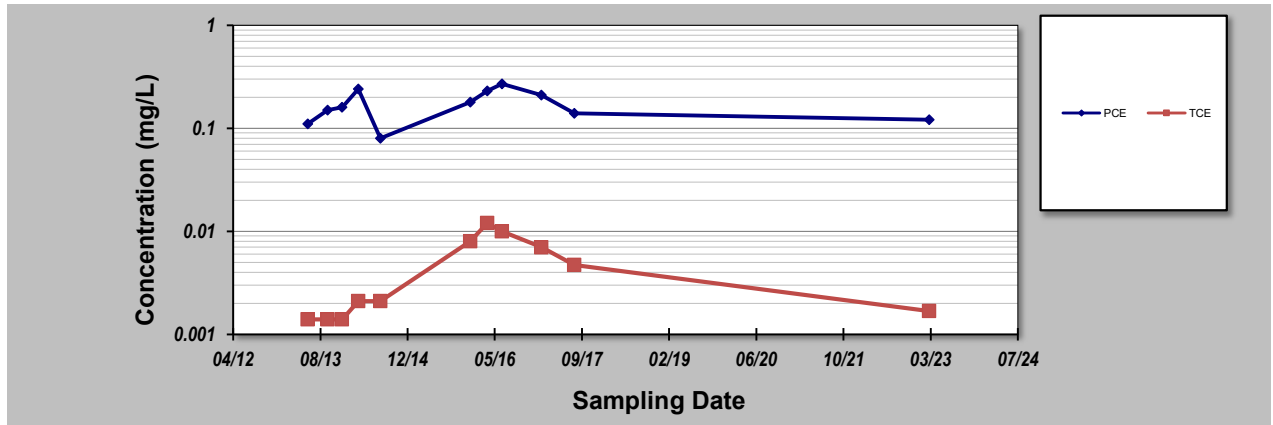
Evaluation Date: **24-Apr-23**
 Facility Name: **Avalon Cleaners**
 Conducted By: **ATC Associates of North Carolina, P.C.**

Job ID: **DC920037**
 Constituent: **MW-2D - Baseline Event and Post-Initial Injection**
 Concentration Units: **mg/L**

Sampling Point ID: **PCE** **TCE**

| Sampling Event | Sampling Date | MW-2D - BASELINE EVENT AND POST-INITIAL INJECTION CONCENTRATION (mg/L) | | | | | |
|----------------|---------------|--|---------|--|--|--|--|
| 1 | 4-Jun-13 | 0.11 | 0.0014 | | | | |
| 2 | 24-Sep-13 | 0.15 | 0.0014 | | | | |
| 3 | 17-Dec-13 | 0.16 | 0.0014 | | | | |
| 4 | 20-Mar-14 | 0.24 | 0.0021 | | | | |
| 5 | 24-Jul-14 | 0.08 | 0.0021 | | | | |
| 6 | 22-Dec-15 | 0.18 | 0.008 | | | | |
| 7 | 28-Mar-16 | 0.23 | 0.012 | | | | |
| 8 | 21-Jun-16 | 0.27 | 0.01 | | | | |
| 9 | 2-Feb-17 | 0.21 | 0.007 | | | | |
| 10 | 10-Aug-17 | 0.14 | 0.0047 | | | | |
| 11 | 7-Mar-23 | 0.121 | 0.00168 | | | | |
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|-----------------------------|----------|------------------|--|--|--|--|
| Coefficient of Variation: | 0.35 | 0.83 | | | | |
| Mann-Kendall Statistic (S): | 7 | 21 | | | | |
| Confidence Factor: | 67.6% | 94.0% | | | | |
| Concentration Trend: | No Trend | Prob. Increasing | | | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

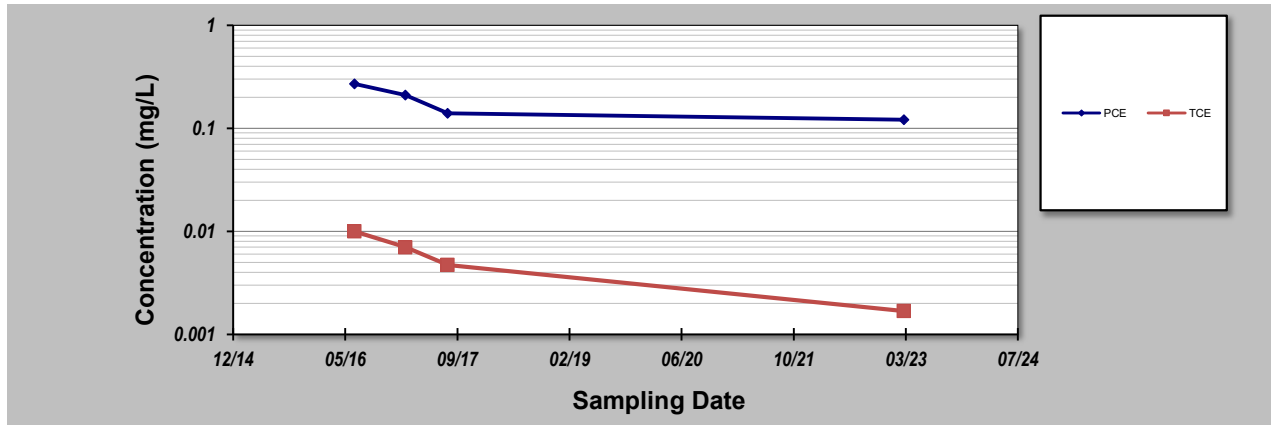
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **24-Apr-23** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-2D - Post August 2016 Injection (Final Event)**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

Sampling Point ID: **PCE** **TCE**

| Sampling Event | Sampling Date | MW-2D - POST AUGUST 2016 INJECTION (FINAL EVENT) CONCENTRATION (mg/L) | | | |
|-----------------------------|---------------|---|------------|--|--|
| 1 | 21-Jun-16 | 0.27 | 0.01 | | |
| 2 | 2-Feb-17 | 0.21 | 0.007 | | |
| 3 | 10-Aug-17 | 0.14 | 0.0047 | | |
| 4 | 7-Mar-23 | 0.121 | 0.00168 | | |
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| Coefficient of Variation: | | 0.37 | 0.60 | | |
| Mann-Kendall Statistic (S): | | -6 | -6 | | |
| Confidence Factor: | | 95.8% | 95.8% | | |
| Concentration Trend: | | Decreasing | Decreasing | | |



Notes:

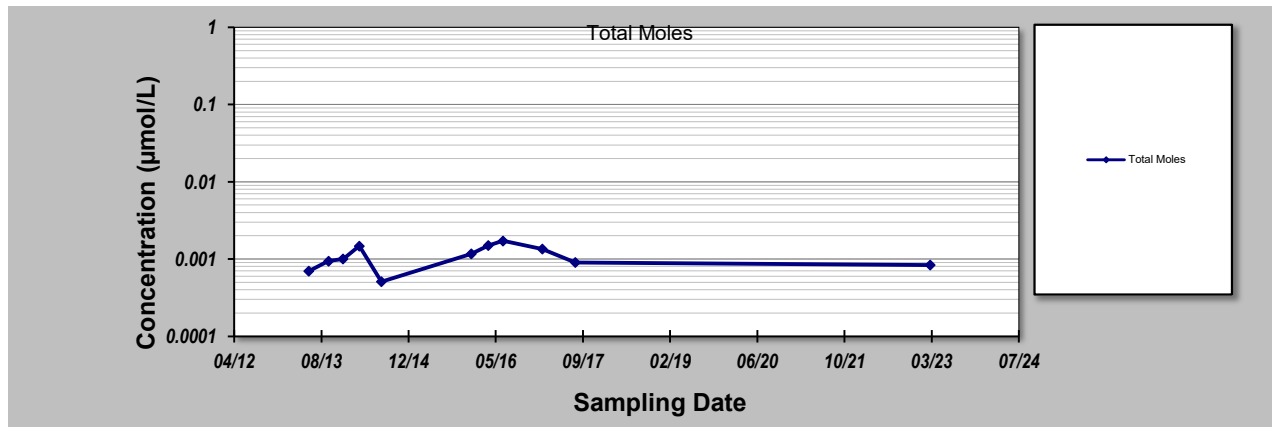
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|------------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-2D |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: µmol/L |

| Sampling Event | Sampling Date | MW-2D CONCENTRATION (µmol/L) | | | | | | | |
|-----------------------------|---------------|------------------------------|--|--|--|--|--|--|--|
| 1 | 4-Jun-13 | 0.000699771 | | | | | | | |
| 2 | 24-Sep-13 | 0.000940982 | | | | | | | |
| 3 | 17-Dec-13 | 0.001001284 | | | | | | | |
| 4 | 20-Mar-14 | 0.001473562 | | | | | | | |
| 5 | 24-Jul-14 | 0.000508718 | | | | | | | |
| 6 | 22-Dec-15 | 0.001166961 | | | | | | | |
| 7 | 28-Mar-16 | 0.001490664 | | | | | | | |
| 8 | 21-Jun-16 | 0.001716654 | | | | | | | |
| 9 | 2-Feb-17 | 0.001343353 | | | | | | | |
| 10 | 10-Aug-17 | 0.000901667 | | | | | | | |
| 11 | 7-Mar-23 | 0.000833629 | | | | | | | |
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| Coefficient of Variation: | | 0.34 | | | | | | | |
| Mann-Kendall Statistic (S): | | 9 | | | | | | | |
| Confidence Factor: | | 72.9% | | | | | | | |
| Concentration Trend: | | No Trend | | | | | | | |



Notes:

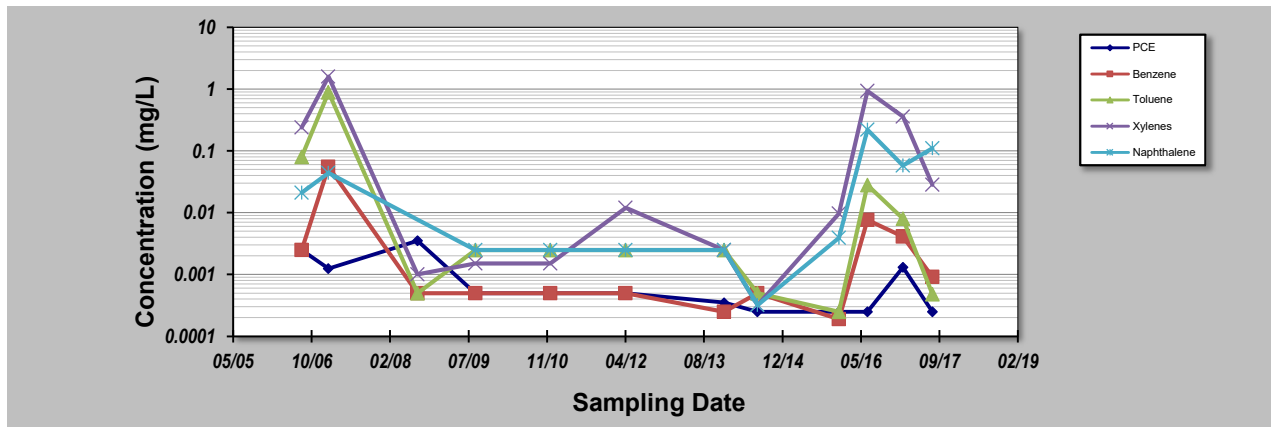
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-4 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

| Sampling Point ID: | | PCE | Benzene | Toluene | Xylenes | Naphthalene | | |
|------------------------------------|---------------|---------------------------|----------|----------|----------|-------------|--|--|
| Sampling Event | Sampling Date | MW-4 CONCENTRATION (mg/L) | | | | | | |
| 1 | 8-Aug-06 | 0.0025 | 0.0025 | 0.08 | 0.24 | 0.021 | | |
| 2 | 25-Jan-07 | 0.00125 | 0.055 | 0.89 | 1.6 | 0.044 | | |
| 3 | 15-Aug-08 | 0.0035 | 0.0005 | 0.0005 | 0.001 | | | |
| 4 | 19-Aug-09 | 0.0005 | 0.0005 | 0.0025 | 0.0015 | 0.0025 | | |
| 5 | 8-Dec-10 | 0.0005 | 0.0005 | 0.0025 | 0.0015 | 0.0025 | | |
| 6 | 2-Apr-12 | 0.0005 | 0.0005 | 0.0025 | 0.012 | 0.0025 | | |
| 7 | 20-Dec-13 | 0.00035 | 0.00025 | 0.0025 | 0.0025 | 0.0025 | | |
| 8 | 21-Jul-14 | 0.00025 | 0.0005 | 0.0005 | 0.00032 | 0.00032 | | |
| 9 | 21-Dec-15 | 0.00025 | 0.00019 | 0.00025 | 0.00967 | 0.0039 | | |
| 10 | 20-Jun-16 | 0.00025 | 0.0076 | 0.028 | 0.93 | 0.22 | | |
| 11 | 1-Feb-17 | 0.0013 | 0.0041 | 0.008 | 0.36 | 0.058 | | |
| 12 | 9-Aug-17 | 0.00025 | 0.00091 | 0.00048 | 0.0284 | 0.11 | | |
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| Coefficient of Variation: | | 1.10 | 2.56 | 3.00 | 1.89 | 1.60 | | |
| Mann-Kendall Statistic (S): | | -37 | -6 | -19 | 9 | 13 | | |
| Confidence Factor: | | 99.5% | 63.1% | 88.9% | 70.4% | 82.1% | | |
| Concentration Trend: | | Decreasing | No Trend | No Trend | No Trend | No Trend | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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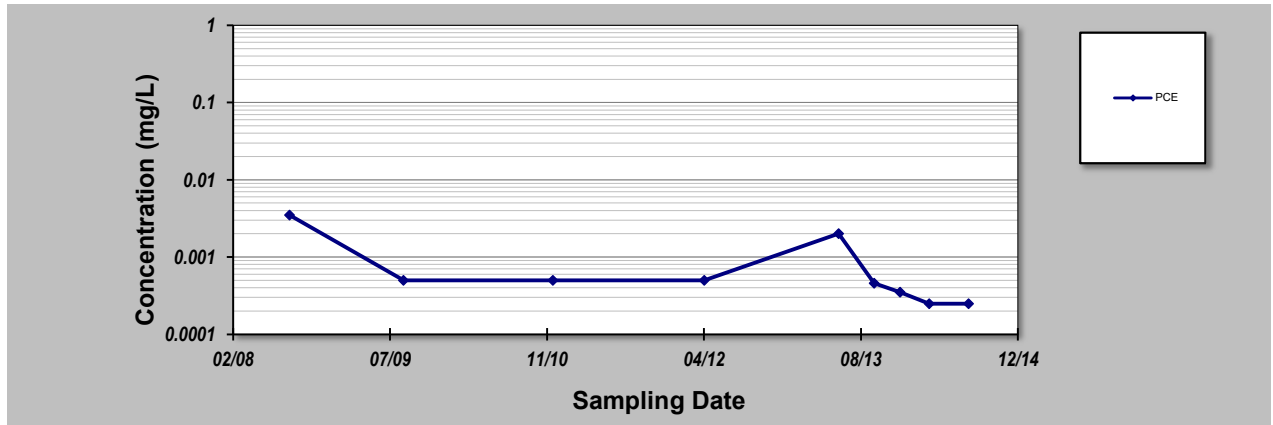
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-5I |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | MW-5I CONCENTRATION (mg/L) | | | | | | |
|----------------|---------------|----------------------------|--|--|--|--|--|--|
| 1 | 20-Aug-08 | 0.0035 | | | | | | |
| 2 | 18-Aug-09 | 0.0005 | | | | | | |
| 3 | 7-Dec-10 | 0.0005 | | | | | | |
| 4 | 2-Apr-12 | 0.0005 | | | | | | |
| 5 | 4-Jun-13 | 0.002 | | | | | | |
| 6 | 25-Sep-13 | 0.00046 | | | | | | |
| 7 | 17-Dec-13 | 0.00035 | | | | | | |
| 8 | 19-Mar-14 | 0.00025 | | | | | | |
| 9 | 23-Jul-14 | 0.00025 | | | | | | |
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|-----------------------------|------------|--|--|--|--|
| Coefficient of Variation: | 1.20 | | | | |
| Mann-Kendall Statistic (S): | -26 | | | | |
| Confidence Factor: | 99.7% | | | | |
| Concentration Trend: | Decreasing | | | | |



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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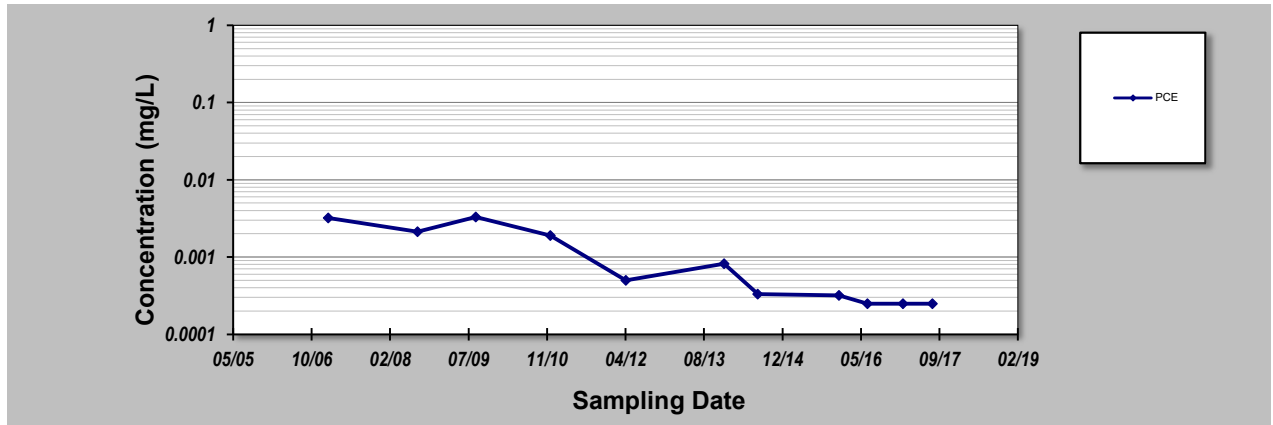
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-7 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | MW-7 CONCENTRATION (mg/L) | | | | | | |
|----------------|---------------|---------------------------|--|--|--|--|--|--|
| 1 | 25-Jan-07 | 0.0032 | | | | | | |
| 2 | 15-Aug-08 | 0.00213 | | | | | | |
| 3 | 20-Aug-09 | 0.0033 | | | | | | |
| 4 | 8-Dec-10 | 0.0019 | | | | | | |
| 5 | 3-Apr-12 | 0.0005 | | | | | | |
| 6 | 19-Dec-13 | 0.00082 | | | | | | |
| 7 | 23-Jul-14 | 0.00033 | | | | | | |
| 8 | 22-Dec-15 | 0.00032 | | | | | | |
| 9 | 21-Jun-16 | 0.00025 | | | | | | |
| 10 | 1-Feb-17 | 0.00025 | | | | | | |
| 11 | 9-Aug-17 | 0.00025 | | | | | | |
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| Coefficient of Variation: | 1.00 |
| Mann-Kendall Statistic (S): | -46 |
| Confidence Factor: | >99.9% |
| Concentration Trend: | Decreasing |



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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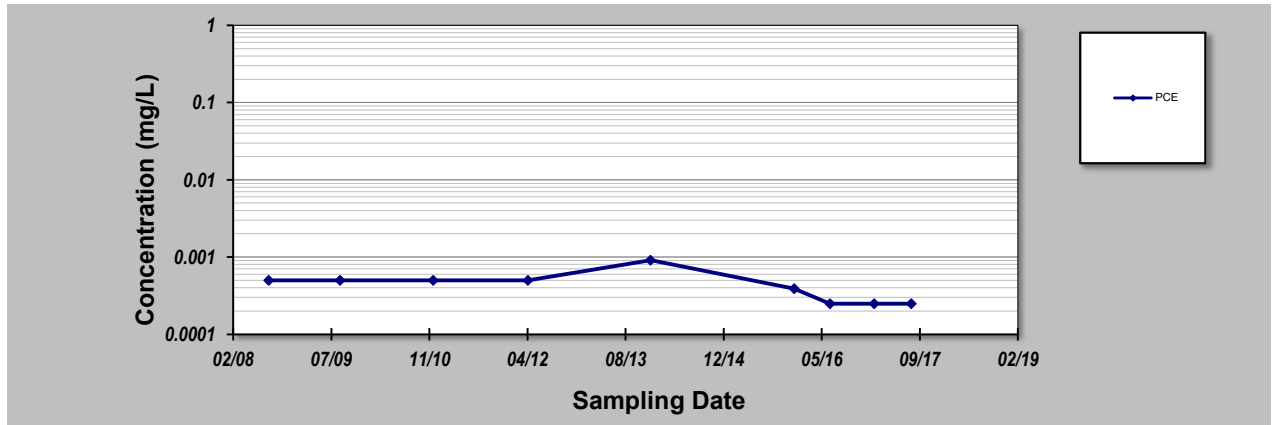
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-7I |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | MW-7I CONCENTRATION (mg/L) | | | | | | |
|----------------|---------------|----------------------------|--|--|--|--|--|--|
| 1 | 22-Aug-08 | 0.0005 | | | | | | |
| 2 | 20-Aug-09 | 0.0005 | | | | | | |
| 3 | 8-Dec-10 | 0.0005 | | | | | | |
| 4 | 3-Apr-12 | 0.0005 | | | | | | |
| 5 | 20-Dec-13 | 0.00091 | | | | | | |
| 6 | 22-Dec-15 | 0.00039 | | | | | | |
| 7 | 21-Jun-16 | 0.00025 | | | | | | |
| 8 | 2-Feb-17 | 0.00025 | | | | | | |
| 9 | 9-Aug-17 | 0.00025 | | | | | | |
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|-----------------------------|------------|
| Coefficient of Variation: | 0.46 |
| Mann-Kendall Statistic (S): | -19 |
| Confidence Factor: | 97.0% |
| Concentration Trend: | Decreasing |



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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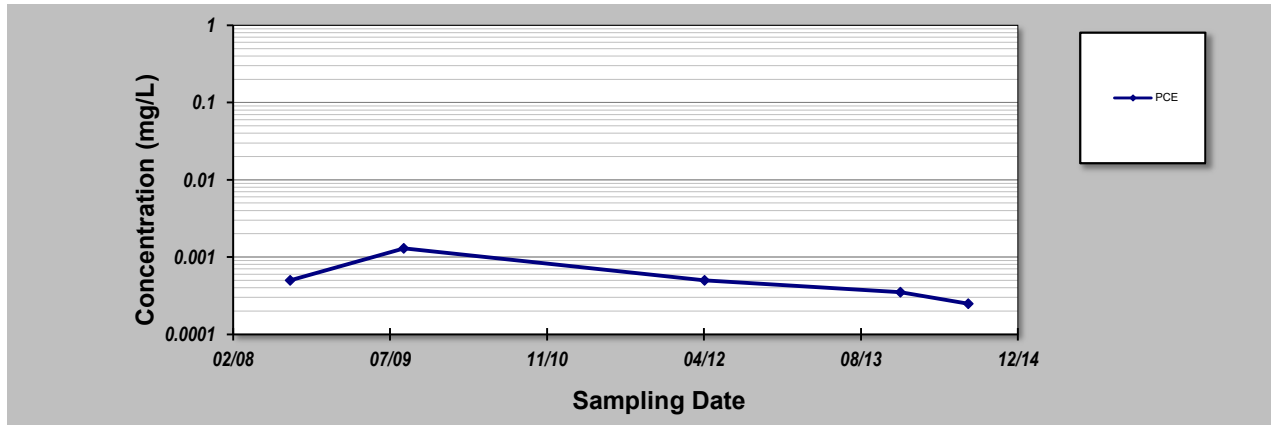
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: MW-10 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | MW-10 CONCENTRATION (mg/L) | | | | | |
|----------------|---------------|----------------------------|--|--|--|--|--|
| 1 | 22-Aug-08 | 0.0005 | | | | | |
| 2 | 19-Aug-09 | 0.0013 | | | | | |
| 3 | 3-Apr-12 | 0.0005 | | | | | |
| 4 | 18-Dec-13 | 0.00035 | | | | | |
| 5 | 22-Jul-14 | 0.00025 | | | | | |
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|-----------------------------|------------------|
| Coefficient of Variation: | 0.72 |
| Mann-Kendall Statistic (S): | -7 |
| Confidence Factor: | 92.1% |
| Concentration Trend: | Prob. Decreasing |



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

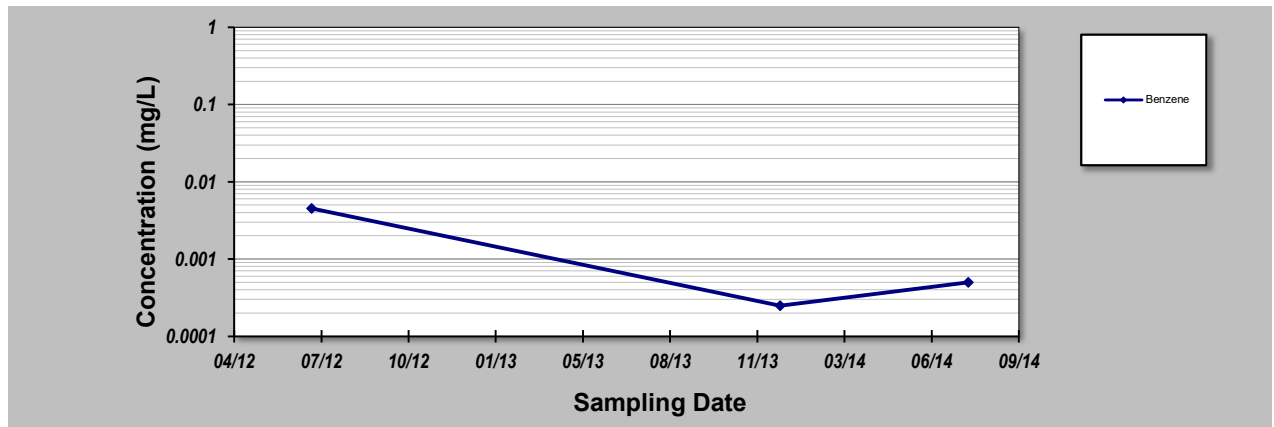
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **12-Apr-22** Job ID: **DC920037**
 Facility Name: **Avalon Cleaners** Constituent: **MW-10D**
 Conducted By: **ATC Associates of North Carolina, P.C.** Concentration Units: **mg/L**

Sampling Point ID: **Benzene**

| Sampling Event | Sampling Date | MW-10D CONCENTRATION (mg/L) | | | | | | | |
|-----------------------------|---------------|-----------------------------|--|--|--|--|--|--|--|
| 1 | 29-Jun-12 | 0.0045 | | | | | | | |
| 2 | 18-Dec-13 | 0.00025 | | | | | | | |
| 3 | 22-Jul-14 | 0.0005 | | | | | | | |
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| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| Coefficient of Variation: | | 1.36 | | | | | | | |
| Mann-Kendall Statistic (S): | | -1 | | | | | | | |
| Confidence Factor: | | | | | | | | | |
| Concentration Trend: | | | | | | | | | |



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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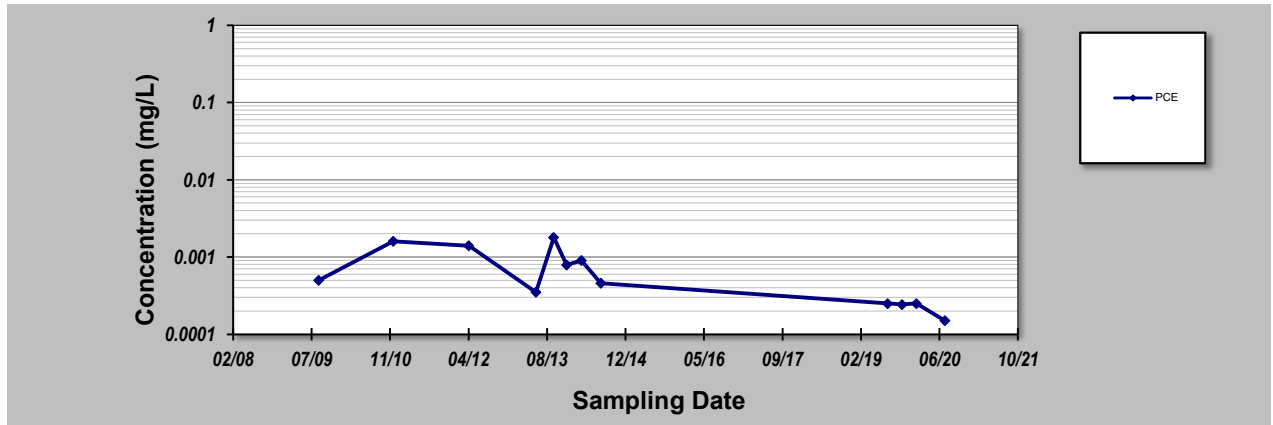
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: DW-1 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **PCE**

| Sampling Event | Sampling Date | DW-1 CONCENTRATION (mg/L) | | | | | | |
|----------------|---------------|---------------------------|--|--|--|--|--|--|
| 1 | 21-Aug-09 | 0.0005 | | | | | | |
| 2 | 8-Dec-10 | 0.0016 | | | | | | |
| 3 | 3-Apr-12 | 0.0014 | | | | | | |
| 4 | 4-Jun-13 | 0.00035 | | | | | | |
| 5 | 25-Sep-13 | 0.0018 | | | | | | |
| 6 | 17-Dec-13 | 0.00079 | | | | | | |
| 7 | 20-Mar-14 | 0.0009 | | | | | | |
| 8 | 23-Jul-14 | 0.00046 | | | | | | |
| 9 | 24-Jul-19 | 0.00025 | | | | | | |
| 10 | 23-Oct-19 | 0.000243 | | | | | | |
| 11 | 23-Jan-20 | 0.00025 | | | | | | |
| 12 | 22-Jul-20 | 0.00015 | | | | | | |
| 13 | | | | | | | | |
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|-----------------------------|------------|--|--|--|--|
| Coefficient of Variation: | 0.80 | | | | |
| Mann-Kendall Statistic (S): | -39 | | | | |
| Confidence Factor: | 99.7% | | | | |
| Concentration Trend: | Decreasing | | | | |



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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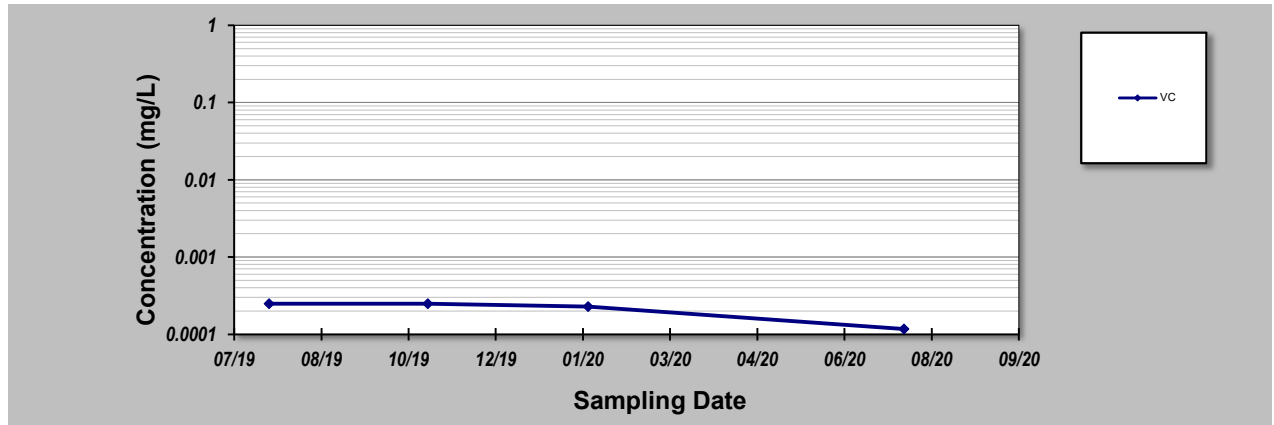
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

| | |
|---|----------------------------------|
| Evaluation Date: 12-Apr-22 | Job ID: DC920037 |
| Facility Name: Avalon Cleaners | Constituent: DW-2 |
| Conducted By: ATC Associates of North Carolina, P.C. | Concentration Units: mg/L |

Sampling Point ID: **VC**

| Sampling Event | Sampling Date | DW-2 CONCENTRATION (mg/L) | | | | | | |
|----------------|---------------|---------------------------|--|--|--|--|--|--|
| 1 | 24-Jul-19 | 0.00025 | | | | | | |
| 2 | 23-Oct-19 | 0.00025 | | | | | | |
| 3 | 23-Jan-20 | 0.000229 | | | | | | |
| 4 | 22-Jul-20 | 0.000117 | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
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| 20 | | | | | | | | |

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|-----------------------------|--------|--|--|--|--|
| Coefficient of Variation: | 0.30 | | | | |
| Mann-Kendall Statistic (S): | -5 | | | | |
| Confidence Factor: | 89.6% | | | | |
| Concentration Trend: | Stable | | | | |



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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Table 7: Groundwater Elevation Data

ADT 7

| DSCA ID No.: DC920037 | | | | | | | |
|----------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] |
| MW-1 | 01/24/07 | 96.19 | 18.16 | 78.03 | N/A | N/A | N/A |
| | 09/22/08 | | 20.91 | 75.28 | N/A | N/A | N/A |
| | 08/21/09 | | 20.13 | 76.06 | N/A | N/A | N/A |
| | 05/05/10 | | 17.93 | 78.26 | N/A | N/A | N/A |
| | 12/08/10 | | 20.59 | 75.60 | N/A | N/A | N/A |
| | 04/03/12 | | 18.78 | 77.41 | N/A | N/A | N/A |
| | 06/29/12 | | 19.51 | 76.68 | N/A | N/A | N/A |
| | 06/11/13 | | 18.51 | 77.68 | N/A | N/A | N/A |
| | 09/24/13 | | 20.88 | 75.31 | N/A | N/A | N/A |
| | 12/16/13 | | 21.15 | 462.06 | N/A | N/A | N/A |
| | 03/19/14 | | 18.12 | 465.09 | N/A | N/A | N/A |
| | 07/21/14 | | 19.30 | 463.91 | N/A | N/A | N/A |
| | 06/24/15 | 18.54 | 464.67 | N/A | N/A | N/A | |
| | 09/27/15 | 20.50 | 462.71 | N/A | N/A | N/A | |
| | 12/21/15 | 18.13 | 465.08 | N/A | N/A | N/A | |
| | 03/28/16 | 17.09 | 466.12 | N/A | N/A | N/A | |
| | 06/20/16 | 17.42 | 465.79 | N/A | N/A | N/A | |
| | 11/09/16 | 18.67 | 464.54 | N/A | N/A | N/A | |
| | 02/01/17 | 17.92 | 465.29 | N/A | N/A | N/A | |
| | 05/04/17 | 17.40 | 465.81 | N/A | N/A | N/A | |
| | 08/09/17 | 19.54 | 463.67 | N/A | N/A | N/A | |
| | 02/26/18 | 18.57 | 464.64 | N/A | N/A | N/A | |
| | 03/07/23 | 18.06 | 465.15 | N/A | N/A | N/A | |
| | 01/16/24 | 18.50 | 464.71 | N/A | N/A | N/A | |
| MW-11 | 09/22/08 | 96.34 | 21.19 | 75.15 | N/A | N/A | N/A |
| | 05/05/10 | | 18.35 | 77.99 | N/A | N/A | N/A |
| | 12/08/10 | | 20.63 | 75.71 | N/A | N/A | N/A |
| | 04/03/12 | | 19.16 | 77.18 | N/A | N/A | N/A |
| | 06/29/12 | | 19.84 | 76.50 | N/A | N/A | N/A |
| | 06/11/13 | | 18.90 | 77.44 | N/A | N/A | N/A |
| | 09/24/13 | | 21.21 | 75.13 | N/A | N/A | N/A |
| | 12/16/13 | | 21.38 | 461.96 | N/A | N/A | N/A |
| | 03/19/14 | | 18.60 | 464.74 | N/A | N/A | N/A |
| | 07/21/14 | | 19.50 | 463.84 | N/A | N/A | N/A |
| | 06/24/15 | | 18.84 | 464.50 | N/A | N/A | N/A |
| | 09/27/15 | | 20.70 | 462.64 | N/A | N/A | N/A |
| | 12/21/15 | 18.45 | 464.89 | N/A | N/A | N/A | |
| | 03/28/16 | 17.55 | 465.79 | N/A | N/A | N/A | |
| | 06/20/16 | 18.11 | 465.23 | N/A | N/A | N/A | |
| | 11/09/16 | 18.88 | 464.46 | N/A | N/A | N/A | |
| | 02/01/17 | 18.28 | 465.06 | N/A | N/A | N/A | |
| | 05/04/17 | 17.78 | 465.56 | N/A | N/A | N/A | |
| | 08/09/17 | 19.77 | 463.57 | N/A | N/A | N/A | |
| | 11/28/17 | 21.35 | 461.99 | N/A | N/A | N/A | |
| | 02/26/18 | 18.93 | 464.41 | N/A | N/A | N/A | |
| | 03/07/23 | 18.52 | 464.82 | N/A | N/A | N/A | |
| | 01/16/24 | 18.92 | 464.42 | N/A | N/A | N/A | |
| | MW-2 | 01/24/07 | 95.61 | 16.44 | 79.17 | N/A | N/A |
| 09/22/08 | | 20.64 | | 74.97 | N/A | N/A | N/A |
| 08/19/09 | | 20.16 | | 75.45 | N/A | N/A | N/A |
| 05/05/10 | | 16.03 | | 79.58 | N/A | N/A | N/A |
| 12/08/10 | | 19.91 | | 75.70 | N/A | N/A | N/A |
| 04/03/12 | | 17.34 | | 78.27 | N/A | N/A | N/A |
| 06/29/12 | | 19.79 | | 75.82 | N/A | N/A | N/A |
| 06/11/13 | | 16.70 | | 78.91 | N/A | N/A | N/A |
| 09/24/13 | | 19.89 | | 75.72 | N/A | N/A | N/A |
| 12/16/13 | | 23.18 | | 459.66 | N/A | N/A | N/A |
| 03/19/14 | | 18.00 | | 464.84 | N/A | N/A | N/A |
| 07/21/14 | | 18.02 | | 464.82 | N/A | N/A | N/A |
| 06/24/15 | | 16.25 | 466.59 | N/A | N/A | N/A | |
| 09/27/15 | | 13.14 | 469.70 | N/A | N/A | N/A | |
| 12/21/15 | | 15.57 | 467.27 | N/A | N/A | N/A | |
| 03/28/16 | | 14.99 | 467.85 | N/A | N/A | N/A | |
| 06/20/16 | | 14.25 | 468.59 | N/A | N/A | N/A | |
| 11/09/16 | | 16.49 | 466.35 | N/A | N/A | N/A | |
| 02/01/17 | | 15.20 | 467.64 | N/A | N/A | N/A | |
| 05/04/17 | | 14.82 | 468.02 | N/A | N/A | N/A | |
| 08/09/17 | | 17.00 | 465.84 | N/A | N/A | N/A | |
| 11/28/17 | | 19.35 | 463.49 | N/A | N/A | N/A | |
| 02/26/18 | | 16.22 | 466.62 | N/A | N/A | N/A | |
| 03/07/23 | | 15.63 | 467.21 | N/A | N/A | N/A | |
| 06/21/23 | 16.13 | 466.71 | N/A | N/A | N/A | | |
| 09/12/23 | 18.67 | 464.17 | N/A | N/A | N/A | | |
| 01/16/24 | 16.32 | 466.52 | N/A | N/A | N/A | | |

| Table 7: Groundwater Elevation Data | | | | | | | ADT 7 |
|-------------------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|
| DSCA ID No.: DC920037 | | | | | | | |
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] |
| MW-21 | 09/22/08 | 96.02 | 21.29 | 74.73 | N/A | N/A | N/A |
| | 05/05/10 | | 17.22 | 78.80 | N/A | N/A | N/A |
| | 12/08/10 | | 20.52 | 75.50 | N/A | N/A | N/A |
| | 04/03/12 | | 18.10 | 77.92 | N/A | N/A | N/A |
| | 06/29/12 | | 19.59 | 76.43 | N/A | N/A | N/A |
| | 06/11/13 | | 17.62 | 78.40 | N/A | N/A | N/A |
| | 09/24/13 | | 16.82 | 79.20 | N/A | N/A | N/A |
| | 12/16/13 | 21.00 | 462.20 | N/A | N/A | N/A | |
| | 03/19/14 | 16.60 | 466.60 | N/A | N/A | N/A | |
| | 07/21/14 | 18.80 | 464.40 | N/A | N/A | N/A | |
| | 06/24/15 | 19.13 | 464.07 | N/A | N/A | N/A | |
| | 09/27/15 | 18.67 | 464.53 | N/A | N/A | N/A | |
| | 12/21/15 | 17.73 | 465.47 | N/A | N/A | N/A | |
| | 03/28/16 | 15.72 | 467.48 | N/A | N/A | N/A | |
| | 06/20/16 | 15.90 | 467.30 | N/A | N/A | N/A | |
| | 11/09/16 | 18.22 | 464.98 | N/A | N/A | N/A | |
| | 02/01/17 | 17.95 | 465.25 | N/A | N/A | N/A | |
| | 05/04/17 | 16.22 | 466.98 | N/A | N/A | N/A | |
| | 08/09/17 | 18.22 | 464.98 | N/A | N/A | N/A | |
| | 11/28/17 | 20.38 | 462.82 | N/A | N/A | N/A | |
| | 02/26/18 | 18.07 | 465.13 | N/A | N/A | N/A | |
| | 03/07/23 | 17.05 | 466.15 | N/A | N/A | N/A | |
| | 06/21/23 | 16.69 | 466.51 | N/A | N/A | N/A | |
| 09/12/23 | 20.10 | 463.10 | N/A | N/A | N/A | | |
| 01/16/24 | 17.57 | 465.63 | N/A | N/A | N/A | | |
| MW-2D | 06/29/12 | 96.04 | 21.71 | 74.33 | N/A | N/A | N/A |
| | 06/11/13 | | 22.39 | 73.65 | N/A | N/A | N/A |
| | 09/24/13 | | 21.11 | 74.93 | N/A | N/A | N/A |
| | 12/16/13 | | 24.03 | 459.22 | N/A | N/A | N/A |
| | 03/19/14 | 17.54 | 465.71 | N/A | N/A | N/A | |
| | 07/21/14 | 23.35 | 459.90 | N/A | N/A | N/A | |
| | 06/24/15 | 22.82 | 460.43 | N/A | N/A | N/A | |
| | 09/27/15 | NM | NM | N/A | N/A | N/A | |
| | 12/21/15 | 20.09 | 463.16 | N/A | N/A | N/A | |
| | 03/28/16 | 21.79 | 461.46 | N/A | N/A | N/A | |
| | 06/20/16 | 16.28 | 466.97 | N/A | N/A | N/A | |
| | 11/09/16 | 18.75 | 464.50 | N/A | N/A | N/A | |
| | 02/01/17 | 17.78 | 465.47 | N/A | N/A | N/A | |
| | 05/04/17 | 16.45 | 466.80 | N/A | N/A | N/A | |
| | 08/09/17 | 17.34 | 465.91 | N/A | N/A | N/A | |
| | 02/26/18 | 18.07 | 465.18 | N/A | N/A | N/A | |
| | 03/07/23 | 18.24 | 465.01 | N/A | N/A | N/A | |
| | 01/16/24 | 17.97 | 465.28 | N/A | N/A | N/A | |
| | 01/24/07 | 14.76 | 80.74 | N/A | N/A | N/A | |
| | 09/22/08 | 18.63 | 76.87 | N/A | N/A | N/A | |
| | 08/21/09 | 18.61 | 76.89 | N/A | N/A | N/A | |
| | 05/05/10 | 14.92 | 80.58 | N/A | N/A | N/A | |
| | 12/08/10 | 17.84 | 77.66 | N/A | N/A | N/A | |
| 04/02/12 | 15.55 | 79.95 | N/A | N/A | N/A | | |
| 06/29/12 | 17.46 | 78.04 | N/A | N/A | N/A | | |
| 06/11/13 | 15.62 | 79.88 | N/A | N/A | N/A | | |
| 09/24/13 | 19.56 | 75.94 | N/A | N/A | N/A | | |
| 12/16/13 | 18.25 | 464.51 | N/A | N/A | N/A | | |
| 03/19/14 | 14.50 | 468.26 | N/A | N/A | N/A | | |
| 07/21/14 | 17.96 | 464.80 | N/A | N/A | N/A | | |
| 06/24/15 | 16.85 | 465.91 | N/A | N/A | N/A | | |
| 09/27/15 | 19.37 | 463.39 | N/A | N/A | N/A | | |
| 12/21/15 | 14.85 | 467.91 | N/A | N/A | N/A | | |
| 03/28/16 | 13.20 | 469.56 | N/A | N/A | N/A | | |
| 06/20/16 | 14.47 | 468.29 | N/A | N/A | N/A | | |
| 11/09/16 | 16.42 | 466.34 | N/A | N/A | N/A | | |
| 02/01/17 | 14.62 | 468.14 | N/A | N/A | N/A | | |
| 05/04/17 | 14.03 | 468.73 | N/A | N/A | N/A | | |
| 08/09/17 | 18.30 | 464.46 | N/A | N/A | N/A | | |
| 02/26/18 | 15.53 | 467.23 | N/A | N/A | N/A | | |
| 03/07/23 | 14.45 | 468.31 | N/A | N/A | N/A | | |
| 01/16/24 | 14.92 | 467.84 | N/A | N/A | N/A | | |

| Table 7: Groundwater Elevation Data | | | | | | | ADT 7 |
|-------------------------------------|--------------------------|---------------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|
| DSCA ID No.: DC920037 | | | | | | | |
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] |
| MW-31 | 09/22/08 | 96.01 | 19.09 | 76.92 | N/A | N/A | N/A |
| | 05/05/10 | | 15.37 | 80.64 | N/A | N/A | N/A |
| | 12/08/10 | | 18.41 | 77.60 | N/A | N/A | N/A |
| | 04/02/12 | | 16.25 | 79.76 | N/A | N/A | N/A |
| | 06/29/12 | | 17.65 | 78.36 | N/A | N/A | N/A |
| | 06/11/13 | | 16.08 | 79.93 | N/A | N/A | N/A |
| | 09/24/13 | | 18.87 | 77.14 | N/A | N/A | N/A |
| | 12/16/13 | 18.70 | 464.51 | N/A | N/A | N/A | |
| | 07/21/14 | 18.57 | 464.64 | N/A | N/A | N/A | |
| | 06/24/15 | 17.10 | 466.11 | N/A | N/A | N/A | |
| | 09/27/15 | 19.95 | 463.26 | N/A | N/A | N/A | |
| | 12/21/15 | 15.33 | 467.88 | N/A | N/A | N/A | |
| | 03/28/16 | 13.75 | 469.46 | N/A | N/A | N/A | |
| | 06/20/16 | 14.97 | 468.24 | N/A | N/A | N/A | |
| | 11/09/16 | 16.95 | 466.26 | N/A | N/A | N/A | |
| | 02/01/17 | 15.29 | 467.92 | N/A | N/A | N/A | |
| | 05/04/17 | 14.48 | 468.73 | N/A | N/A | N/A | |
| | 08/09/17 | 18.45 | 464.76 | N/A | N/A | N/A | |
| | 02/26/18 | 16.60 | 466.61 | N/A | N/A | N/A | |
| | 03/07/23 | 15.30 | 467.91 | N/A | N/A | N/A | |
| 01/16/24 | 16.43 | 466.78 | N/A | N/A | N/A | | |
| MW-4 | 01/24/07 | 93.28 | 14.78 | 78.50 | N/A | N/A | N/A |
| | 09/22/08 | | 18.19 | 75.09 | N/A | N/A | N/A |
| | 08/19/09 | | 17.66 | 75.62 | N/A | N/A | N/A |
| | 05/05/10 | | 14.91 | 78.37 | N/A | N/A | N/A |
| | 12/08/10 | | 17.48 | 75.80 | N/A | N/A | N/A |
| | 04/02/12 | | 15.37 | 77.91 | N/A | N/A | N/A |
| | 06/29/12 | | 16.82 | 76.46 | N/A | N/A | N/A |
| | 06/11/13 | 15.43 | 77.85 | N/A | N/A | N/A | |
| | 09/24/13 | 18.47 | 74.81 | N/A | N/A | N/A | |
| | 12/16/13 | 18.05 | 462.29 | N/A | N/A | N/A | |
| | 03/19/14 | 14.67 | 465.67 | N/A | N/A | N/A | |
| | 07/21/14 | 16.92 | 463.42 | N/A | N/A | N/A | |
| | 06/24/15 | 15.98 | 464.36 | N/A | N/A | N/A | |
| | 09/27/15 | 18.18 | 462.16 | N/A | N/A | N/A | |
| | 12/21/15 | 14.93 | 465.41 | N/A | N/A | N/A | |
| | 03/28/16 | 13.66 | 466.68 | N/A | N/A | N/A | |
| | 06/20/16 | 14.46 | 465.88 | N/A | N/A | N/A | |
| | 11/09/16 | 15.86 | 464.48 | N/A | N/A | N/A | |
| | 02/01/17 | 14.50 | 465.84 | N/A | N/A | N/A | |
| | 05/04/17 | 14.00 | 466.34 | N/A | N/A | N/A | |
| 08/09/17 | 18.58 | 461.76 | N/A | N/A | N/A | | |
| 03/07/23 | 14.48 | 465.86 | N/A | N/A | N/A | | |
| 01/16/24 | 15.00 | 465.34 | N/A | N/A | N/A | | |
| MW-41 | 09/22/08 | 93.54 | 17.97 | 75.57 | N/A | N/A | N/A |
| | 05/05/10 | | 15.31 | 78.23 | N/A | N/A | N/A |
| | 12/08/10 | | 17.54 | 76.00 | N/A | N/A | N/A |
| | 04/02/12 | | 16.26 | 77.28 | N/A | N/A | N/A |
| | 06/29/12 | | 16.89 | 76.65 | N/A | N/A | N/A |
| | 09/24/13 | | 18.28 | 75.26 | N/A | N/A | N/A |
| | 12/16/13 | | 18.18 | 462.36 | N/A | N/A | N/A |
| | 07/21/14 | 16.86 | 463.68 | N/A | N/A | N/A | |
| | 06/24/15 | 16.06 | 464.48 | N/A | N/A | N/A | |
| | 09/27/15 | 17.72 | 462.82 | N/A | N/A | N/A | |
| | 12/21/15 | 15.37 | 465.17 | N/A | N/A | N/A | |
| | 03/28/16 | 14.43 | 466.11 | N/A | N/A | N/A | |
| | 06/20/16 | 15.02 | 465.52 | N/A | N/A | N/A | |
| | 11/09/16 | 16.00 | 464.54 | N/A | N/A | N/A | |
| | 02/01/17 | 15.20 | 465.34 | N/A | N/A | N/A | |
| | 05/04/17 | 14.71 | 465.83 | N/A | N/A | N/A | |
| | 08/09/17 | 16.92 | 463.62 | N/A | N/A | N/A | |
| | 02/26/18 | 15.81 | 464.73 | N/A | N/A | N/A | |
| | 03/07/23 | Not Measured/Inaccessible | | | | | |
| | 01/16/24 | 15.53 | 465.01 | N/A | N/A | N/A | |

Table 7: Groundwater Elevation Data

ADT 7

| DSCA ID No.: DC920037 | | | | | | | |
|----------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] |
| MW-5 | 01/24/07 | 97.39 | 16.52 | 80.87 | N/A | N/A | N/A |
| | 09/22/08 | | 21.68 | 75.71 | N/A | N/A | N/A |
| | 08/18/09 | | 21.23 | 76.16 | N/A | N/A | N/A |
| | 05/05/10 | | 15.99 | 81.40 | N/A | N/A | N/A |
| | 12/08/10 | | 20.54 | 76.85 | N/A | N/A | N/A |
| | 04/02/12 | | 17.72 | 79.67 | N/A | N/A | N/A |
| | 06/29/12 | | 19.63 | 77.76 | N/A | N/A | N/A |
| | 06/11/13 | | 17.24 | 80.15 | N/A | N/A | N/A |
| | 09/24/13 | | 22.43 | 74.96 | N/A | N/A | N/A |
| | 12/16/13 | | 21.23 | 463.29 | N/A | N/A | N/A |
| | 03/19/14 | 16.18 | 468.34 | N/A | N/A | N/A | |
| | 07/21/14 | 20.15 | 464.37 | N/A | N/A | N/A | |
| | 06/24/15 | 18.38 | 466.14 | N/A | N/A | N/A | |
| | 09/27/15 | 22.33 | 462.19 | N/A | N/A | N/A | |
| | 12/21/15 | 15.58 | 468.94 | N/A | N/A | N/A | |
| | 03/28/16 | 14.04 | 470.48 | N/A | N/A | N/A | |
| | 06/20/16 | 15.70 | 468.82 | N/A | N/A | N/A | |
| | 11/09/16 | 18.15 | 466.37 | N/A | N/A | N/A | |
| | 02/01/17 | 15.99 | 468.53 | N/A | N/A | N/A | |
| | 05/04/17 | 15.08 | 469.44 | N/A | N/A | N/A | |
| 08/09/17 | 20.62 | 463.90 | N/A | N/A | N/A | | |
| 02/26/18 | 17.31 | 467.21 | N/A | N/A | N/A | | |
| 03/07/23 | 16.06 | 468.46 | N/A | N/A | N/A | | |
| 01/16/24 | 17.00 | 467.52 | N/A | N/A | N/A | | |
| MW-51 | 09/22/08 | 97.29 | 21.41 | 75.88 | N/A | N/A | N/A |
| | 05/05/10 | | 15.98 | 81.31 | N/A | N/A | N/A |
| | 12/08/10 | | 20.35 | 76.94 | N/A | N/A | N/A |
| | 04/02/12 | | 17.57 | 79.72 | N/A | N/A | N/A |
| | 06/29/12 | | 19.59 | 77.70 | N/A | N/A | N/A |
| | 06/11/13 | | 17.18 | 80.11 | N/A | N/A | N/A |
| | 09/24/13 | | 19.71 | 77.58 | N/A | N/A | N/A |
| | 12/16/13 | | 20.95 | 463.42 | N/A | N/A | N/A |
| | 03/19/14 | | 16.12 | 468.25 | N/A | N/A | N/A |
| | 07/21/14 | | 19.83 | 464.54 | N/A | N/A | N/A |
| | 06/24/15 | 18.24 | 466.13 | N/A | N/A | N/A | |
| | 09/27/15 | 21.90 | 462.47 | N/A | N/A | N/A | |
| | 12/21/15 | 16.38 | 467.99 | N/A | N/A | N/A | |
| | 03/28/16 | 13.98 | 470.39 | N/A | N/A | N/A | |
| | 06/20/16 | 16.74 | 467.63 | N/A | N/A | N/A | |
| | 11/09/16 | 18.00 | 466.37 | N/A | N/A | N/A | |
| | 02/01/17 | 15.91 | 468.46 | N/A | N/A | N/A | |
| | 05/04/17 | 15.00 | 469.37 | N/A | N/A | N/A | |
| | 08/09/17 | 20.42 | 463.95 | N/A | N/A | N/A | |
| | 02/26/18 | 17.17 | 467.20 | N/A | N/A | N/A | |
| 03/07/23 | 16.00 | 468.37 | N/A | N/A | N/A | | |
| 01/16/24 | 16.86 | 467.51 | N/A | N/A | N/A | | |
| MW-6 | 01/24/07 | 100.00 | 21.88 | 78.12 | N/A | N/A | N/A |
| | 09/22/08 | | 26.56 | 73.44 | N/A | N/A | N/A |
| | 08/18/09 | | 24.99 | 75.01 | N/A | N/A | N/A |
| | 05/05/10 | | 21.01 | 78.99 | N/A | N/A | N/A |
| | 12/08/10 | | 25.62 | 74.38 | N/A | N/A | N/A |
| | 04/02/12 | | 23.17 | 76.83 | N/A | N/A | N/A |
| | 06/29/12 | | 23.86 | 76.14 | N/A | N/A | N/A |
| | 06/11/13 | | 22.18 | 77.82 | N/A | N/A | N/A |
| | 09/24/13 | | 24.96 | 75.04 | N/A | N/A | N/A |
| | 12/16/13 | | 25.02 | 462.14 | N/A | N/A | N/A |
| | 03/19/14 | 21.49 | 465.67 | N/A | N/A | N/A | |
| | 07/21/14 | 22.41 | 464.75 | N/A | N/A | N/A | |
| | 06/24/15 | 21.72 | 465.44 | N/A | N/A | N/A | |
| | 09/27/15 | 23.77 | 463.39 | N/A | N/A | N/A | |
| | 12/21/15 | 20.51 | 466.65 | N/A | N/A | N/A | |
| | 03/28/16 | 19.19 | 467.97 | N/A | N/A | N/A | |
| | 06/20/16 | 19.01 | 468.15 | N/A | N/A | N/A | |
| | 11/09/16 | 21.05 | 466.11 | N/A | N/A | N/A | |
| | 02/01/17 | 20.25 | 466.91 | N/A | N/A | N/A | |
| | 05/04/17 | 19.29 | 467.87 | N/A | N/A | N/A | |
| 03/07/23 | 20.78 | 466.38 | N/A | N/A | N/A | | |
| 01/16/24 | 21.61 | 465.55 | N/A | N/A | N/A | | |

| Table 7: Groundwater Elevation Data | | | | | | | ADT 7 | |
|-------------------------------------|--------------------------|----------------------|---|------------------------------|--------------------------|-----------------------|---|--|
| DSCA ID No.: DC920037 | | | | | | | | |
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] | |
| MW-61 | 09/22/08 | 100.83 | 26.61 | 74.22 | N/A | N/A | N/A | |
| | 05/05/10 | | 21.05 | 79.78 | N/A | N/A | N/A | |
| | 12/08/10 | | 25.68 | 75.15 | N/A | N/A | N/A | |
| | 04/02/12 | | 23.40 | 77.43 | N/A | N/A | N/A | |
| | 06/29/12 | | 23.91 | 76.92 | N/A | N/A | N/A | |
| | 06/11/13 | | 22.15 | 78.68 | N/A | N/A | N/A | |
| | 12/16/13 | 486.98 | 25.35 | 461.63 | N/A | N/A | N/A | |
| | 07/21/14 | | NM | NM | N/A | N/A | N/A | |
| | 06/24/15 | | NM | NM | N/A | N/A | N/A | |
| | 09/27/15 | | NM | NM | N/A | N/A | N/A | |
| | 12/21/15 | | 19.81 | 467.17 | N/A | N/A | N/A | |
| | 03/28/16 | | NM | NM | N/A | N/A | N/A | |
| | 06/20/16 | | NM | NM | N/A | N/A | N/A | |
| | 11/09/16 | | NM | NM | N/A | N/A | N/A | |
| | 02/01/17 | | NM | NM | N/A | N/A | N/A | |
| | 05/04/17 | | NM | NM | N/A | N/A | N/A | |
| | 08/09/17 | | NM | NM | N/A | N/A | N/A | |
| | 02/26/18 | | NM | NM | N/A | N/A | N/A | |
| | 03/07/23 | | Not Measured/Obstruction at 4.5 feet below ground surface | | | | | |
| | 01/16/24 | | Not Measured/Obstruction at 4.5 feet below ground surface | | | | | |
| 01/24/07 | 99.20 | 21.58 | 77.62 | N/A | N/A | N/A | | |
| 09/22/08 | | 25.50 | 73.70 | N/A | N/A | N/A | | |
| 08/20/09 | | 24.26 | 74.94 | N/A | N/A | N/A | | |
| 05/05/10 | | 21.04 | 78.16 | N/A | N/A | N/A | | |
| 12/08/10 | | 24.99 | 74.21 | N/A | N/A | N/A | | |
| 04/03/12 | | 22.65 | 76.55 | N/A | N/A | N/A | | |
| 06/29/12 | | 23.22 | 75.98 | N/A | N/A | N/A | | |
| 06/11/13 | | 21.73 | 77.47 | N/A | N/A | N/A | | |
| 09/24/13 | | 24.03 | 75.17 | N/A | N/A | N/A | | |
| 12/16/13 | | 25.05 | 461.19 | N/A | N/A | N/A | | |
| 03/19/14 | | 21.26 | 464.98 | N/A | N/A | N/A | | |
| 07/21/14 | | 21.82 | 464.42 | N/A | N/A | N/A | | |
| 06/24/15 | | 20.99 | 465.25 | N/A | N/A | N/A | | |
| 09/27/15 | | 23.47 | 462.77 | N/A | N/A | N/A | | |
| 12/21/15 | | 21.05 | 465.19 | N/A | N/A | N/A | | |
| 03/28/16 | | 19.91 | 466.33 | N/A | N/A | N/A | | |
| 06/20/16 | | 19.91 | 466.33 | N/A | N/A | N/A | | |
| 11/09/16 | | 21.40 | 464.84 | N/A | N/A | N/A | | |
| 02/01/17 | 20.75 | 465.49 | N/A | N/A | N/A | | | |
| 05/04/17 | 19.98 | 466.26 | N/A | N/A | N/A | | | |
| 08/09/17 | 22.25 | 463.99 | N/A | N/A | N/A | | | |
| 02/26/18 | 21.67 | 464.57 | N/A | N/A | N/A | | | |
| 03/07/23 | 21.22 | 465.02 | N/A | N/A | N/A | | | |
| 01/16/24 | 21.87 | 464.37 | N/A | N/A | N/A | | | |
| MW-71 | 09/22/08 | 98.89 | 25.30 | 73.59 | N/A | N/A | N/A | |
| | 05/05/10 | | 20.73 | 78.16 | N/A | N/A | N/A | |
| | 12/08/10 | | 24.73 | 74.16 | N/A | N/A | N/A | |
| | 04/03/12 | | 22.33 | 76.56 | N/A | N/A | N/A | |
| | 06/29/12 | | 22.97 | 75.92 | N/A | N/A | N/A | |
| | 06/11/13 | | 21.48 | 77.41 | N/A | N/A | N/A | |
| | 09/24/13 | 23.65 | 75.24 | N/A | N/A | N/A | | |
| | 12/16/13 | 20.03 | 465.88 | N/A | N/A | N/A | | |
| | 07/21/14 | NM | NM | N/A | N/A | N/A | | |
| | 06/24/15 | NM | NM | N/A | N/A | N/A | | |
| | 09/27/15 | 22.51 | 463.40 | N/A | N/A | N/A | | |
| | 12/21/15 | 20.55 | 465.36 | N/A | N/A | N/A | | |
| | 12/21/15 | 19.65 | 466.26 | N/A | N/A | N/A | | |
| | 06/20/16 | 19.13 | 466.78 | N/A | N/A | N/A | | |
| | 11/09/16 | 19.90 | 466.01 | N/A | N/A | N/A | | |
| | 02/01/17 | 20.36 | 465.55 | N/A | N/A | N/A | | |
| | 05/04/17 | 19.51 | 466.40 | N/A | N/A | N/A | | |
| | 08/09/17 | 21.44 | 464.47 | N/A | N/A | N/A | | |
| | 02/26/18 | 21.23 | 464.68 | N/A | N/A | N/A | | |
| | 03/07/23 | 20.45 | 465.46 | N/A | N/A | N/A | | |
| 01/16/24 | 21.30 | 464.61 | N/A | N/A | N/A | | | |

| Table 7: Groundwater Elevation Data | | | | | | | ADT 7 | |
|-------------------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|-----|
| DSCA ID No.: DC920037 | | | | | | | | |
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] | |
| MW-9S | 09/22/08 | 93.00 | 18.63 | 74.37 | N/A | N/A | N/A | |
| | 08/21/09 | | 17.63 | 75.37 | N/A | N/A | N/A | |
| | 05/05/10 | | 15.93 | 77.07 | N/A | N/A | N/A | |
| | 12/08/10 | | 18.51 | 74.49 | N/A | N/A | N/A | |
| | 04/02/12 | | 16.49 | 76.51 | N/A | N/A | N/A | |
| | 06/29/12 | | 17.19 | 75.81 | N/A | N/A | N/A | |
| | 06/11/13 | | 16.21 | 76.79 | N/A | N/A | N/A | |
| | 09/24/13 | | 18.16 | 74.84 | N/A | N/A | N/A | |
| | 12/16/13 | | 18.46 | 461.57 | N/A | N/A | N/A | |
| | 03/19/14 | 15.92 | 464.11 | N/A | N/A | N/A | | |
| | 07/21/14 | 16.69 | 463.34 | N/A | N/A | N/A | | |
| | 06/24/15 | 16.23 | 463.80 | N/A | N/A | N/A | | |
| | 09/27/15 | 17.51 | 462.52 | N/A | N/A | N/A | | |
| | 12/21/15 | 15.84 | 464.19 | N/A | N/A | N/A | | |
| | 03/28/16 | 15.20 | 464.83 | N/A | N/A | N/A | | |
| | 06/20/16 | 15.54 | 464.49 | N/A | N/A | N/A | | |
| | 11/09/16 | 16.15 | 463.88 | N/A | N/A | N/A | | |
| | 02/01/17 | 15.62 | 464.41 | N/A | N/A | N/A | | |
| | 05/04/17 | 15.21 | 464.82 | N/A | N/A | N/A | | |
| | 08/09/17 | 16.80 | 463.23 | N/A | N/A | N/A | | |
| | 02/26/18 | 16.35 | 463.68 | N/A | N/A | N/A | | |
| | 03/07/23 | | | Not Measured/Inaccessible | | | | |
| | 01/16/24 | | | 16.04 | 463.99 | N/A | N/A | N/A |
| MW-9I | 09/22/08 | 92.94 | 18.64 | 74.30 | N/A | N/A | N/A | |
| | 05/05/10 | | 15.91 | 77.03 | N/A | N/A | N/A | |
| | 12/08/10 | | 18.54 | 74.40 | N/A | N/A | N/A | |
| | 04/02/12 | | 16.51 | 76.43 | N/A | N/A | N/A | |
| | 06/29/12 | | 17.18 | 75.76 | N/A | N/A | N/A | |
| | 06/11/13 | | 16.24 | 76.70 | N/A | N/A | N/A | |
| | 09/24/13 | | 18.07 | 74.87 | N/A | N/A | N/A | |
| | 12/16/13 | | 18.55 | 461.40 | N/A | N/A | N/A | |
| | 03/19/14 | | 16.00 | 463.95 | N/A | N/A | N/A | |
| | 07/21/14 | 16.55 | 463.40 | N/A | N/A | N/A | | |
| | 06/24/15 | 16.11 | 463.84 | N/A | N/A | N/A | | |
| | 09/27/15 | NM | NM | N/A | N/A | N/A | | |
| | 12/21/15 | 15.87 | 464.08 | N/A | N/A | N/A | | |
| | 03/28/16 | 15.22 | 464.73 | N/A | N/A | N/A | | |
| | 06/20/16 | 15.53 | 464.42 | N/A | N/A | N/A | | |
| | 11/09/16 | 16.11 | 463.84 | N/A | N/A | N/A | | |
| | 02/01/17 | 15.65 | 464.30 | N/A | N/A | N/A | | |
| | 05/04/17 | 15.25 | 464.70 | N/A | N/A | N/A | | |
| | 08/09/17 | 16.78 | 463.17 | N/A | N/A | N/A | | |
| | 02/26/18 | 16.39 | 463.56 | N/A | N/A | N/A | | |
| | 03/07/23 | | | Not Measured/Inaccessible | | | | |
| | 01/16/24 | | | 16.31 | 463.64 | N/A | N/A | N/A |
| | MW-10 | 09/22/08 | 97.94 | 23.73 | 74.21 | N/A | N/A | N/A |
| 08/19/09 | | 22.75 | | 75.19 | N/A | N/A | N/A | |
| 05/05/10 | | 19.28 | | 78.66 | N/A | N/A | N/A | |
| 04/02/12 | | 20.47 | | 77.47 | N/A | N/A | N/A | |
| 06/29/12 | | 21.92 | | 76.02 | N/A | N/A | N/A | |
| 06/11/13 | | 21.69 | | 76.25 | N/A | N/A | N/A | |
| 12/16/13 | | 17.56 | | 462.15 | N/A | N/A | N/A | |
| 03/19/14 | | 14.63 | | 465.08 | N/A | N/A | N/A | |
| 07/21/14 | | 15.22 | | 464.49 | N/A | N/A | N/A | |
| 06/24/15 | | 14.83 | 464.88 | N/A | N/A | N/A | | |
| 09/27/15 | | 16.55 | 463.16 | N/A | N/A | N/A | | |
| 12/21/15 | | 14.35 | 465.36 | N/A | N/A | N/A | | |
| 03/28/16 | | 14.01 | 465.70 | N/A | N/A | N/A | | |
| 06/20/16 | | 14.25 | 465.46 | N/A | N/A | N/A | | |
| 11/09/16 | | 15.32 | 464.39 | N/A | N/A | N/A | | |
| 02/01/17 | | 14.41 | 465.30 | N/A | N/A | N/A | | |
| 05/04/17 | | 14.10 | 465.61 | N/A | N/A | N/A | | |
| 08/09/17 | | 16.47 | 463.24 | N/A | N/A | N/A | | |
| 02/26/18 | | 15.11 | 464.60 | N/A | N/A | N/A | | |
| 03/07/23 | | 14.31 | 465.40 | N/A | N/A | N/A | | |
| 01/16/24 | | | | 14.89 | 464.82 | N/A | N/A | N/A |

Table 7: Groundwater Elevation Data

ADT 7

| DSCA ID No.: DC920037 | | | | | | | |
|----------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] |
| MW-10D | 06/29/12 | 97.76 | 22.25 | 75.51 | N/A | N/A | N/A |
| | 06/11/13 | | 24.60 | 73.16 | N/A | N/A | N/A |
| | 12/16/13 | 479.68 | 18.50 | 461.18 | N/A | N/A | N/A |
| | 03/19/14 | | 15.75 | 463.93 | N/A | N/A | N/A |
| | 07/21/14 | | 16.48 | 463.20 | N/A | N/A | N/A |
| | 06/24/15 | | 15.87 | 463.81 | N/A | N/A | N/A |
| | 09/27/15 | | 17.57 | 462.11 | N/A | N/A | N/A |
| | 12/21/15 | | 15.65 | 464.03 | N/A | N/A | N/A |
| | 03/28/16 | | 14.97 | 464.71 | N/A | N/A | N/A |
| | 06/20/16 | | 14.94 | 464.74 | N/A | N/A | N/A |
| | 11/09/16 | | 15.81 | 463.87 | N/A | N/A | N/A |
| | 02/01/17 | | 15.44 | 464.24 | N/A | N/A | N/A |
| | 05/04/17 | | 15.11 | 464.57 | N/A | N/A | N/A |
| | 08/09/17 | | 16.61 | 463.07 | N/A | N/A | N/A |
| | 02/26/18 | | 16.52 | 463.16 | N/A | N/A | N/A |
| | 03/07/23 | | 16.09 | 463.59 | N/A | N/A | N/A |
| 01/16/24 | 16.41 | 463.27 | N/A | N/A | N/A | | |
| MW-11S | 09/22/08 | 97.80 | 25.74 | 72.06 | N/A | N/A | N/A |
| | 08/19/09 | | 24.07 | 73.73 | N/A | N/A | N/A |
| | 05/05/10 | | 19.94 | 77.86 | N/A | N/A | N/A |
| | 12/08/10 | | 24.69 | 73.11 | N/A | N/A | N/A |
| | 04/02/12 | | 22.05 | 75.75 | N/A | N/A | N/A |
| | 06/29/12 | | 22.81 | 74.99 | N/A | N/A | N/A |
| | 06/11/13 | 21.11 | 76.69 | N/A | N/A | N/A | |
| | 12/16/13 | 482.22 | 19.95 | 462.27 | N/A | N/A | N/A |
| | 03/19/14 | | 17.42 | 464.80 | N/A | N/A | N/A |
| | 07/21/14 | | 17.11 | 465.11 | N/A | N/A | N/A |
| | 06/24/15 | | 16.66 | 465.56 | N/A | N/A | N/A |
| | 09/27/15 | | 19.90 | 462.32 | N/A | N/A | N/A |
| | 12/21/15 | | 16.52 | 465.70 | N/A | N/A | N/A |
| | 03/28/16 | | 15.45 | 466.77 | N/A | N/A | N/A |
| | 06/20/16 | | 14.65 | 467.57 | N/A | N/A | N/A |
| | 11/09/16 | | 17.09 | 465.13 | N/A | N/A | N/A |
| 02/01/17 | 15.55 | | 466.67 | N/A | N/A | N/A | |
| 05/04/17 | 14.63 | 467.59 | N/A | N/A | N/A | | |
| 08/09/17 | 18.09 | 464.13 | N/A | N/A | N/A | | |
| 02/26/18 | 16.48 | 465.74 | N/A | N/A | N/A | | |
| 03/07/23 | 16.75 | 465.47 | N/A | N/A | N/A | | |
| 01/16/24 | 14.53 | 467.69 | N/A | N/A | N/A | | |
| MW-11I | 09/22/08 | 97.60 | 25.56 | 72.04 | N/A | N/A | N/A |
| | 05/05/10 | | 19.75 | 77.85 | N/A | N/A | N/A |
| | 12/08/10 | | 24.56 | 73.04 | N/A | N/A | N/A |
| | 04/02/12 | | 21.85 | 75.75 | N/A | N/A | N/A |
| | 06/29/12 | | 22.65 | 74.95 | N/A | N/A | N/A |
| | 06/11/13 | | 20.99 | 76.61 | N/A | N/A | N/A |
| | 12/16/13 | 482.17 | 20.51 | 461.66 | N/A | N/A | N/A |
| | 03/19/14 | | 14.85 | 467.32 | N/A | N/A | N/A |
| | 07/21/14 | | 10.85 | 471.32 | N/A | N/A | N/A |
| | 06/24/15 | | 10.42 | 471.75 | N/A | N/A | N/A |
| | 09/27/15 | | 16.33 | 465.84 | N/A | N/A | N/A |
| | 12/21/15 | | 12.43 | 469.74 | N/A | N/A | N/A |
| | 03/28/16 | | 10.81 | 471.36 | N/A | N/A | N/A |
| | 06/20/16 | | 12.63 | 469.54 | N/A | N/A | N/A |
| | 11/09/16 | | 12.76 | 469.41 | N/A | N/A | N/A |
| | 02/01/17 | | 15.56 | 466.61 | N/A | N/A | N/A |
| 05/04/17 | 12.40 | 469.77 | N/A | N/A | N/A | | |
| 08/09/17 | 11.94 | 470.23 | N/A | N/A | N/A | | |
| 02/26/18 | 12.12 | 470.05 | N/A | N/A | N/A | | |
| 03/07/23 | 11.67 | 470.50 | N/A | N/A | N/A | | |
| 01/16/24 | 18.22 | 463.95 | N/A | N/A | N/A | | |

Table 7: Groundwater Elevation Data

ADT 7

| DSCA ID No.: DC920037 | | | | | | | | |
|----------------------------|--------------------------|----------------------|---------------------------|------------------------------|--------------------------|-----------------------|---|--|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | TOC Elevation [feet] | Depth to Water [feet bgs] | Groundwater Elevation [feet] | Depth to NAPL [feet bgs] | NAPL Thickness [feet] | Corrected* Groundwater Elevation [feet] | |
| MW-11D | 06/29/12 | 99.89 | 23.47 | 76.42 | N/A | N/A | N/A | |
| | 06/11/13 | | 24.03 | 75.86 | N/A | N/A | N/A | |
| | 12/16/13 | 482.16 | 20.40 | 461.76 | N/A | N/A | N/A | |
| | 03/19/14 | | 17.35 | 464.81 | N/A | N/A | N/A | |
| | 07/21/14 | | 17.81 | 464.35 | N/A | N/A | N/A | |
| | 06/24/15 | | 17.47 | 464.69 | N/A | N/A | N/A | |
| | 09/27/15 | | 17.90 | 464.26 | N/A | N/A | N/A | |
| | 12/21/15 | | 16.92 | 465.24 | N/A | N/A | N/A | |
| | 03/28/16 | | 16.25 | 465.91 | N/A | N/A | N/A | |
| | 06/20/16 | | 16.07 | 466.09 | N/A | N/A | N/A | |
| | 11/09/16 | | 16.13 | 466.03 | N/A | N/A | N/A | |
| | 02/01/17 | | 16.51 | 465.65 | N/A | N/A | N/A | |
| | 05/04/17 | | 16.34 | 465.82 | N/A | N/A | N/A | |
| | 08/09/17 | | 17.05 | 465.11 | N/A | N/A | N/A | |
| | 02/26/18 | | 16.85 | 465.31 | N/A | N/A | N/A | |
| | 03/07/23 | | 15.51 | 466.65 | N/A | N/A | N/A | |
| 01/16/24 | 19.31 | 462.85 | N/A | N/A | N/A | | | |
| DW-1 | 05/05/10 | 96.15 | 18.44 | 77.71 | N/A | N/A | N/A | |
| | 12/08/10 | | 21.34 | 74.81 | N/A | N/A | N/A | |
| | 04/03/12 | | 19.40 | 76.75 | N/A | N/A | N/A | |
| | 06/29/12 | | 19.95 | 76.20 | N/A | N/A | N/A | |
| | 06/11/13 | | 18.99 | 77.16 | N/A | N/A | N/A | |
| | 09/24/13 | | 20.74 | 75.41 | N/A | N/A | N/A | |
| | 12/16/13 | 21.48 | 461.82 | N/A | N/A | N/A | | |
| | 03/19/14 | 483.30 | 18.60 | 464.70 | N/A | N/A | N/A | |
| | 07/21/14 | | 19.40 | 463.90 | N/A | N/A | N/A | |
| | 06/24/15 | | 18.87 | 464.43 | N/A | N/A | N/A | |
| | 09/27/15 | | 20.08 | 463.22 | N/A | N/A | N/A | |
| | 12/21/15 | | 18.44 | 464.86 | N/A | N/A | N/A | |
| | 03/28/16 | | 17.53 | 465.77 | N/A | N/A | N/A | |
| | 06/20/16 | | 17.78 | 465.52 | N/A | N/A | N/A | |
| | 11/09/16 | | 18.86 | 464.44 | N/A | N/A | N/A | |
| | 02/01/17 | | 18.25 | 465.05 | N/A | N/A | N/A | |
| | 05/04/17 | | 17.75 | 465.55 | N/A | N/A | N/A | |
| | 08/09/17 | | 19.59 | 463.71 | N/A | N/A | N/A | |
| | 02/26/18 | | 18.97 | 464.33 | N/A | N/A | N/A | |
| | 07/24/19 | | 19.26 | 464.04 | N/A | N/A | N/A | |
| | 10/23/19 | | 20.83 | 462.47 | N/A | N/A | N/A | |
| | 01/23/20 | | 18.96 | 464.34 | N/A | N/A | N/A | |
| | 07/22/20 | | 18.83 | 464.47 | N/A | N/A | N/A | |
| | 03/07/23 | | 18.59 | 464.71 | N/A | N/A | N/A | |
| 01/16/24 | 19.03 | | 464.27 | N/A | N/A | N/A | | |
| DW-2 | 07/24/19 | 480.26 | 17.12 | 463.14 | N/A | N/A | N/A | |
| | 10/23/19 | | 18.62 | 461.64 | N/A | N/A | N/A | |
| | 01/23/20 | | 16.65 | 463.61 | N/A | N/A | N/A | |
| | 07/22/20 | | 16.26 | 464.00 | N/A | N/A | N/A | |
| | 03/07/23 | | Not Measured/Inaccessible | | | | | |
| | 01/16/24 | | 15.63 | 464.63 | N/A | N/A | N/A | |

Table 8(1): Analytical Data for Groundwater

ADT 8(1)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|----------|--------------------------|--------------|--------------------------------|-------------|---------------------|----------|----------------------------|-------------------|----------------|-----------------|-----------------------|----------------------|---------|------------|---------------|--------------------|--------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | Benzene | cis-1,2-Dichloroethylene | Ethylbenzene | Methyl tert-butyl ether (MTBE) | Naphthalene | Tetrachloroethylene | Toluene | trans-1,2-Dichloroethylene | Trichloroethylene | Vinyl chloride | Xylenes (total) | 1,1,2-Trichloroethane | 1,1-Dichloroethylene | Acetone | Chloroform | Chloromethane | Methylene Chloride | |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 0.001 | 0.07 | 0.6 | 0.02 | 0.006 | 0.0007 | 0.6 | 0.1 | 0.003 | 0.00003 | 0.5 | 0.0006 | 0.35 | 6 | 0.07 | 0.003 | 0.005 | |
| GP-1 | 07/10/06 | <0.020 | <0.020 | <0.010 | <0.030 | <0.040 | 11.5 | <0.020 | <0.040 | <0.040 | <0.030 | ND | <0.040 | <0.040 | <0.12 | <0.04 | <0.020 | <0.04 | |
| GP2 | 07/10/06 | <0.100 | <0.100 | <0.050 | <0.150 | <0.200 | 39.8 | <0.100 | <0.100 | <0.200 | <0.150 | ND | <0.200 | <0.200 | <0.6 | <0.2 | <0.100 | <0.2 | |
| MW-1 | 08/08/06 | <0.005 | <0.005 | <0.005 | <0.005 | 0.007 | 4.2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.022 | <0.005 | NA | <0.005 | <0.005 | <0.005 | |
| | 01/25/07 | <0.0048 | <0.0056 | <0.0068 | <0.0040 | <0.010 | 3.6 | <0.006 | <0.004 | <0.0092 | <0.0060 | ND | <0.0096 | <0.0056 | <0.036 | <0.0064 | <0.0072 | <0.0035 | |
| | 08/15/08 | <0.020 | <0.020 | <0.020 | NA | NA | 1.5 | <0.020 | <0.020 | <0.020 | <0.020 | <0.040 | NA | <0.020 | NA | NA | NA | NA | |
| | 08/21/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 1.4 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/08/10 | <0.010 | <0.010 | <0.010 | <0.010 | <0.050 | 0.89 | <0.050 | <0.010 | <0.010 | <0.010 | <0.010 | <0.030 | <0.010 | <0.010 | <0.05 | <0.005 | <0.025 | <0.005 |
| | 04/03/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.45 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.39 | <0.005 | <0.005 | 0.00066J | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 09/25/13 | <0.0005 | <0.005 | <0.005 | 0.00062J | <0.005 | 0.49 | <0.005 | <0.005 | 0.00041J | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 12/17/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.41 | 0.00036J | <0.005 | 0.00054J | <0.0005 | <0.005 | <0.005 | <0.005 | 0.0082J | <0.005 | <0.005 | <0.005 | |
| | 03/20/14 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.33 | <0.005 | <0.005 | <0.005 | <0.01 | <0.005 | <0.005 | <0.005 | <0.05 | <0.01 | <0.005 | <0.025 | |
| | 07/23/14 | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.27 | <0.010 | <0.010 | <0.010 | <0.020 | <0.020 | <0.010 | <0.010 | <0.010 | <0.5 | <0.020 | <0.050 | <0.050 |
| | 06/24/15 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | 0.2 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | <0.0120 | <0.0040 | <0.0040 | <0.20 | <0.0080 | <0.0080 | <0.020 | |
| | 09/27/15 | <0.0020 | 0.0016J | <0.0020 | <0.0020 | <0.0040 | 0.11 | <0.0020 | <0.0020 | 0.0013J | <0.0040 | <0.0060 | <0.0020 | <0.0020 | <0.10 | <0.0040 | <0.0040 | <0.010 | |
| | 12/21/15 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.16 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0060 | <0.0020 | <0.0020 | <0.10 | 0.00046J | <0.0040 | <0.010 | |
| | 03/28/16 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.13 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0060 | <0.0020 | <0.0020 | <0.10 | <0.0040 | <0.0040 | <0.010 | |
| | 06/20/16 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.010 | 0.15 | <0.0050 | <0.0050 | <0.0050 | <0.010 | <0.0150 | <0.0050 | <0.0050 | <0.25 | <0.010 | <0.010 | <0.025 | |
| | 11/10/16 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | 0.2 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | <0.0080 | <0.0040 | <0.0040 | 0.025J | <0.0080 | <0.0080 | <0.020 | |
| | 02/02/17 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.26 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0060 | <0.0010 | <0.0010 | <0.020 | <0.10 | <0.0040 | <0.0040 | |
| | 05/04/17 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | 0.14 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | <0.0120 | <0.0040 | <0.0040 | <0.20 | <0.0080 | <0.0080 | <0.020 | |
| | 08/10/17 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.25 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0060 | <0.0020 | <0.0020 | <0.10 | <0.0040 | <0.0040 | <0.010 | |
| | 03/07/23 | <0.0005 | 0.00108 | <0.0005 | <0.0005 | <0.0025 | 0.161 | <0.0005 | <0.0005 | 0.00653 | <0.0005 | <0.0015 | <0.0005 | <0.0005 | <0.025 | 0.000329J | <0.00125 | <0.0025 | |
| | MW-11 | 08/19/08 | <0.100 | <0.100 | <0.100 | NA | NA | 0.38 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | NA | <0.100 | NA | NA | NA | |
| | | 08/21/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.43 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.38 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | | 04/03/12 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | 0.47 | <0.025 | <0.0050 | <0.0050 | <0.015 | <0.0050 | <0.0050 | <0.05 | <0.005 | <0.012 | <0.005 | |
| | | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.4 | <0.005 | <0.005 | 0.0004J | <0.0005 | <0.005 | <0.005 | <0.005 | 0.017J | 0.0027J | <0.005 | <0.005 |
| 09/25/13 | | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.72 | <0.005 | <0.005 | 0.0004J | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | 0.003J | <0.005 | <0.005 | |
| 12/17/13 | | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.5 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | 0.0025J | <0.005 | <0.005 | |
| 03/20/14 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.94 | <0.010 | <0.010 | <0.010 | <0.020 | <0.020 | <0.010 | <0.010 | <0.50 | <0.020 | <0.005 | <0.050 | |
| 07/23/14 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.050 | 0.43 | <0.025 | <0.025 | <0.025 | <0.050 | <0.050 | <0.025 | <0.025 | <1.2 | <0.050 | <0.12 | <0.12 | |
| 06/24/15 | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.010 | 0.66 | <0.0050 | <0.0050 | <0.0050 | <0.010 | <0.0150 | <0.0050 | <0.0050 | 0.032J | 0.0026J | <0.010 | <0.025 | |
| 09/27/15 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.39 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | 0.91 | <0.020 | <0.020 | <0.050 | |
| 12/21/15 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.62 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | 0.0058J | <0.020 | <0.050 | |
| 03/28/16 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.73 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | <0.020 | <0.020 | <0.050 | |
| 06/20/16 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.92 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | <0.020 | <0.020 | <0.050 | |
| 11/10/16 | | <0.020 | <0.020 | <0.020 | <0.020 | <0.040 | 0.72 | <0.020 | <0.020 | <0.020 | <0.040 | <0.040 | <0.020 | <0.020 | <1.0 | <0.040 | <0.040 | <0.10 | |
| 02/02/17 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.78 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.0050 | <0.010 | <0.50 | 0.0024J | <0.020 | <0.050 | |
| 05/04/17 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 | 0.75 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | 0.0026J | <0.020 | <0.050 | |
| 08/10/17 | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.010 | 0.68 | <0.0050 | <0.0050 | <0.0016J | <0.010 | <0.0150 | <0.0050 | <0.0050 | <0.25 | 0.0017J | <0.010 | <0.025 | |
| 11/28/17 | | <0.010 | 0.012 | <0.010 | <0.010 | <0.020 | 0.89 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | <0.020 | <0.020 | <0.050 | |
| 02/26/18 | | <0.010 | 0.013 | <0.010 | <0.010 | <0.020 | 0.67 | <0.010 | <0.010 | <0.010 | <0.020 | <0.030 | <0.010 | <0.010 | <0.50 | 0.0037J | <0.020 | <0.050 | |

Table 8(2): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(2)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|------------|------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------|---------------|----------------------|---------------------------|-----------------|------------------|---------------------------|----------------|--------------------|-------------------------------|---------|---------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | 1,2,3-Trimethylbenzene | 1,3,5-Trimethylbenzene | Carbon disulfide | Chlorobenzene | Bromodichloromethane | Isopropylbenzene (Cumene) | n-Propylbenzene | sec-Butylbenzene | trans-1,3-Dichloropropene | n-Butylbenzene | 1,1-Dichloroethane | p-Isopropyltoluene (p-Cymene) | Styrene | |
| | | [mg/L] | | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 4 | 0.04 | 0.1 | 2 | 0.4 | NE | 0.4 | 0.7 | 0.05 | 0.0006 | 0.07 | 0.07 | 0.07 | 0.0004 | 0.07 | 0.006 | 0.025 | 0.070 | |
| GP-1 | 07/10/06 | <0.08 | <0.05 | <0.08 | <0.020 | NA | NA | NA | <0.030 | <0.030 | <0.0020 | <0.0010 | <0.0010 | <0.0040 | <0.0020 | <0.0010 | <0.040 | <0.0010 | <0.010 | |
| GP-2 | 07/10/06 | <0.4 | <0.25 | <0.4 | <0.100 | NA | NA | NA | <0.150 | <0.150 | <0.100 | <0.0050 | <0.050 | <0.200 | <0.100 | <0.200 | <0.200 | <0.200 | <0.050 | |
| MW-1 | 08/08/06 | 0.032 | <0.01 | <0.01 | <0.010 | <0.005 | NA | <0.005 | NA | <0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.005 | <0.0050 | <0.0050 | |
| | 01/25/07 | <0.022 | <0.0096 | <0.014 | <0.0064 | <0.0038 | NA | <0.0044 | <0.0048 | <0.0044 | <0.0076 | <0.0040 | <0.0052 | <0.0033 | <0.0072 | <0.0044 | <0.0056 | <0.0030 | <0.0048 | |
| | 08/15/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.020 | NA | NA | |
| | 08/21/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/08/10 | <0.01 | NA | <0.01 | <0.050 | <0.010 | NA | <0.010 | NA | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | |
| | 04/03/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 06/04/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 09/25/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| | 12/17/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 03/20/14 | <0.1 | <0.05 | <0.05 | <0.0010 | <0.0050 | NA | <0.0050 | NA | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.005 | <0.0050 | <0.0050 | |
| | 07/23/14 | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| | 06/24/15 | <0.080 | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | |
| | 09/27/15 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | |
| | 12/21/15 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | |
| | 03/28/16 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | |
| | 06/20/16 | <0.10 | <0.050 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | |
| | 11/10/16 | <0.080 | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | |
| | 02/02/17 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | |
| | 05/04/17 | <0.080 | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | |
| | 08/10/17 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | |
| | 03/07/23 | <0.005 | <0.005 | <0.005 | <0.0025 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| | MW-11 | 08/19/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.100 | NA | NA |
| | | 08/21/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| 04/03/12 | | <0.01 | NA | <0.01 | <0.025 | <0.005 | NA | <0.005 | NA | <0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | |
| 06/04/13 | | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| 09/25/13 | | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| 12/17/13 | | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| 03/20/14 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | NA | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 07/23/14 | | <0.50 | <0.25 | <0.25 | <0.050 | <0.025 | NA | <0.025 | <0.10 | <0.025 | <0.012 | <0.025 | <0.025 | <0.025 | <0.012 | <0.025 | <0.025 | <0.025 | <0.025 | |
| 06/24/15 | | <0.10 | <0.050 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | |
| 09/27/15 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 12/21/15 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 03/28/16 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 06/20/16 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 11/10/16 | | <0.40 | <0.20 | <0.20 | <0.040 | <0.020 | NA | <0.020 | <0.080 | <0.020 | <0.010 | <0.020 | <0.020 | <0.020 | <0.010 | <0.020 | <0.020 | <0.020 | <0.020 | |
| 02/02/17 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 05/04/17 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 08/10/17 | | <0.10 | <0.050 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | |
| 11/28/17 | | <0.20 | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | |
| 02/26/18 | | 0.043J | <0.10 | <0.10 | <0.020 | <0.010 | NA | <0.020 | <0.040 | <0.010 | <0.0050 | <0.020 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.020 | <0.010 | |

Table 8(1): Analytical Data for Groundwater

ADT 8(1)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|---|--------------------------|--------------|--------------------------------|-------------|---------------------|----------|----------------------------|-------------------|----------------|-----------------|-----------------------|----------------------|---------|------------|---------------|--------------------|--------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | Benzene | cis-1,2-Dichloroethylene | Ethylbenzene | Methyl tert-butyl ether (MTBE) | Naphthalene | Tetrachloroethylene | Toluene | trans-1,2-Dichloroethylene | Trichloroethylene | Vinyl chloride | Xylenes (total) | 1,1,2-Trichloroethane | 1,1-Dichloroethylene | Acetone | Chloroform | Chloromethane | Methylene Chloride | |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 0.001 | 0.07 | 0.6 | 0.02 | 0.006 | 0.0007 | 0.6 | 0.1 | 0.003 | 0.00003 | 0.5 | 0.0006 | 0.35 | 6 | 0.07 | 0.003 | 0.005 | |
| MW-2 | 08/08/06 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 3.3 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NA | <0.005 | <0.005 | <0.005 | |
| | 01/25/07 | <0.0048 | <0.0056 | <0.0068 | <0.0040 | <0.010 | 7.4 | <0.006 | <0.004 | <0.0092 | <0.0060 | ND | <0.0096 | <0.0056 | <0.036 | <0.0064 | <0.0072 | <0.0035 | |
| | 08/15/08 | <0.500 | <0.500 | <0.500 | NA | NA | 14 | <0.500 | <0.500 | <0.500 | <0.500 | <0.1000 | NA | <0.500 | NA | NA | NA | NA | |
| | 08/19/09 | <0.0010 | 0.0037 | <0.0010 | <0.0010 | <0.0050 | 20 | <0.0050 | <0.0010 | 0.0092 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/07/10 | <0.20 | <0.20 | <0.20 | <0.20 | <1.0 | 27 | <1.0 | <0.20 | <0.20 | <0.20 | <0.60 | <0.20 | <0.20 | <0.05 | <0.005 | <0.5 | <0.005 | |
| | 04/03/12 | <0.10 | <0.10 | <0.10 | <0.10 | <0.50 | 13 | <0.50 | <0.10 | <0.10 | <0.10 | <0.30 | <0.10 | <0.10 | <0.05 | <0.005 | <0.25 | <0.005 | |
| | 06/04/13 | 0.018J | 0.073J | <0.25 | <0.25 | <0.25 | 17 | 0.023J | <0.25 | 0.03J | <0.025 | <0.25 | <0.25 | <0.25 | 0.84J | <0.25 | <0.25 | <0.25 | 0.063J |
| | 09/25/13 | Injection material was in the well, therefore a water sample was not able to be collected for VOC analysis. | | | | | | | | | | | | | | | | | |
| | 12/19/13 | <0.0025 | 0.042 | <0.025 | <0.025 | <0.025 | 0.55 | <0.025 | <0.0018 | 0.012J | <0.0025 | <0.025 | <0.025 | <0.025 | 0.058J | <0.025 | <0.025 | <0.025 | <0.025 |
| | 03/20/14 | <0.025 | 0.046 | <0.025 | <0.025 | <0.050 | 0.22 | <0.025 | <0.025 | 0.010J | <0.050 | <0.025 | <0.025 | <0.025 | <1.2 | <0.050 | <0.050 | <0.12 | |
| | 07/24/14 | <0.010 | 0.077 | <0.010 | <0.010 | <0.020 | 0.13 | <0.010 | <0.010 | 0.019 | 0.0025J | <0.020 | <0.010 | <0.010 | <0.5 | <0.020 | <0.050 | <0.050 | |
| | 06/26/15 | <0.0050 | 0.054 | <0.0050 | <0.010 | 0.086 | <0.0050 | <0.0050 | 0.02 | <0.010 | <0.0150 | <0.0050 | <0.010 | 0.41 | <0.010 | <0.010 | <0.010 | <0.025 | |
| | 09/27/15 | <0.0040 | 0.031 | <0.0040 | <0.0040 | <0.0080 | 0.15 | <0.0040 | <0.0040 | 0.016 | <0.0080 | <0.0120 | <0.0040 | 0.0014J | 0.5 | <0.0080 | <0.0080 | <0.020 | |
| | 12/22/15 | <0.0050 | 0.086 | <0.0050 | <0.0050 | <0.010 | 0.19 | 0.00095J | <0.0050 | 0.03 | 0.0036J | <0.0150 | <0.0050 | <0.0050 | 0.48 | 0.0019J | <0.010 | <0.025 | |
| | 03/28/16 | <0.0050 | 0.3 | <0.0050 | <0.0050 | <0.010 | 0.12 | <0.0050 | <0.0050 | 0.03 | <0.010 | <0.0150 | <0.0050 | 0.0082 | 0.63 | <0.010 | <0.010 | <0.025 | |
| | 06/21/16 | <0.0050 | 0.46 | <0.0050 | <0.0050 | <0.010 | 0.12 | 0.0010J | <0.0050 | 0.03 | 0.014 | <0.0150 | <0.0050 | 0.0014J | 0.27 | <0.010 | <0.010 | <0.025 | |
| | 11/10/16 | <0.10 | 1.6 | <0.10 | <0.10 | <0.20 | 1.4 | <0.10 | <0.10 | 0.075J | 0.051J | <0.20 | <0.10 | <0.10 | <5.0 | <0.20 | <0.20 | <0.50 | |
| | 02/02/17 | <0.010 | 1.1 | <0.010 | <0.010 | <0.020 | 0.14 | <0.010 | <0.010 | 0.016 | 0.029 | <0.030 | <0.0050 | <0.010 | 0.42J | <0.020 | <0.020 | <0.050 | |
| | 05/04/17 | <0.020 | 1.1 | <0.020 | <0.020 | <0.040 | 0.067 | <0.020 | <0.020 | 0.0082J | 0.028J | <0.060 | <0.020 | <0.020 | 0.56J | <0.040 | <0.040 | <0.10 | |
| | 08/10/17 | <0.010 | 0.71 | <0.010 | <0.010 | <0.020 | 0.072 | <0.010 | <0.010 | 0.0032J | 0.019J | <0.030 | <0.010 | <0.010 | 0.63 | <0.020 | <0.020 | <0.050 | |
| | 11/28/17 | <0.010 | 0.76 | <0.010 | <0.010 | <0.020 | <0.0050 | <0.010 | <0.010 | <0.010 | 0.016J | <0.030 | <0.010 | <0.010 | 2.3 | <0.020 | <0.020 | <0.050 | |
| | 02/26/18 | <0.0040 | 0.39 | <0.0040 | <0.0040 | 0.011 | <0.0020 | 0.0022J | <0.0040 | <0.0040 | 0.0074J | <0.0120 | <0.0040 | <0.0040 | 2.3 | <0.0080 | <0.0080 | <0.020 | |
| | 03/07/23 | <0.0025 | 0.0251 | <0.0025 | <0.0025 | <0.0125 | <0.0025 | 0.00161J | <0.0025 | <0.0025 | <0.0075 | <0.0075 | <0.0025 | <0.0025 | <0.125 | <0.0025 | <0.00625 | <0.0125 | |
| | 06/21/23 | <0.00500 | 0.0206 | <0.00500 | <0.00500 | 0.00178J | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.0150 | <0.00500 | <0.00500 | 1.420 | <0.00500 | <0.0125 | <0.0250 | |
| | 09/12/23 | <0.013 | 0.0259J | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.038 | <0.013 | <0.013 | 9.80 | <0.013 | <0.013 | 0.0585B | |
| | 01/16/24 | <0.00500 | 0.0248 | <0.00500 | <0.00500 | <0.0250 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.0150 | <0.00500 | <0.0150 | <0.00500 | <0.250 | <0.00500 | <0.0125 | <0.0250 | |
| | MW-21 | 08/19/08 | <1.000 | <1.000 | <1.000 | NA | NA | 25 | <1.000 | <1.000 | <1.000 | <1.000 | <2.000 | NA | <1.000 | NA | NA | NA | |
| | | 08/19/09 | <0.0010 | 0.017 | <0.0010 | <0.0010 | <0.0050 | 51 | <0.0050 | 0.001 | 0.03 | <0.0010 | 0.0031 | <0.0010 | 0.0052 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | | 12/07/10 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 57 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | <0.50 | <0.05 | <0.005 | <1.2 | <0.005 |
| | | 04/03/12 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 64 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | <0.50 | <0.05 | <0.005 | <1.2 | <0.005 |
| | | 06/04/13 | <0.025 | 0.039J | <0.25 | <0.25 | <0.25 | 43 | <0.25 | <0.25 | 0.041J | <0.025 | <0.25 | <0.25 | <2.5 | <0.25 | <0.25 | <0.11J | |
| | | 09/25/13 | <0.025 | 0.41 | <0.25 | <0.25 | <0.25 | 7.5 | 0.021J | <0.25 | 0.12J | <0.025 | <0.25 | <0.25 | 0.021J | 0.16J | <0.25 | <0.25 | <0.25 |
| | | 12/17/13 | <0.025 | 0.48 | 0.014J | <0.25 | <0.5 | 16 | 0.047J | <0.25 | 0.22 | <0.025 | 0.069J | <0.25 | 0.033J | <2.5 | <0.25 | <0.25 | <0.25 |
| | | 03/20/14 | <0.50 | 0.43J | <0.50 | <0.50 | <1.0 | 46 | <0.50 | <0.50 | 0.29J | <1.0 | <0.50 | <0.50 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 |
| 07/24/14 | | <2.0 | 0.36J | <2.0 | <2.0 | <4.0 | 41 | <2.0 | <2.0 | 0.32J | <4.0 | <4.0 | <2.0 | <2.0 | <100 | <4.0 | <10 | <10 | |
| 06/24/15 | | <0.50 | 0.28J | <0.50 | <0.50 | <1.0 | 33 | <0.50 | <0.50 | 0.30J | <1.0 | <1.5 | <0.50 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 | |
| 09/27/15 | | <0.50 | 1.7 | <0.50 | <0.50 | <1.0 | 18 | <0.50 | <0.50 | 0.9 | <1.0 | <1.5 | <0.50 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 | |
| 12/22/15 | | <0.50 | 0.93 | <0.50 | <0.50 | <1.0 | 33 | <0.50 | <0.50 | 0.62 | <1.0 | <1.50 | <0.50 | <0.50 | <2.5 | 0.22J | <1.0 | <2.5 | |
| 03/28/16 | | <0.50 | 1.6 | <0.50 | <0.50 | <1.0 | 35 | <0.50 | <0.50 | 0.75 | <1.0 | <1.5 | <0.50 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 | |
| 06/21/16 | | <0.50 | 2.5 | <0.50 | <0.50 | <1.0 | 42 | <0.50 | <0.50 | 0.82 | <1.0 | <1.5 | <0.50 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 | |
| 11/10/16 | | <0.25 | 3.7 | <0.25 | <0.25 | <0.50 | 17 | <0.25 | <0.25 | 0.42 | <0.50 | <0.50 | <0.25 | <0.25 | <12 | <0.50 | <0.50 | <1.2 | |
| 02/02/17 | | <0.50 | 3.5 | <0.50 | <0.50 | <1.0 | 13 | <0.50 | <0.50 | 0.32J | <1.0 | <1.5 | <0.25 | <0.50 | <2.5 | <1.0 | <1.0 | <2.5 | |
| 05/04/17 | | <0.20 | 4.2 | <0.20 | <0.20 | <0.40 | 17 | <0.20 | <0.20 | 0.43 | 0.044J | <0.60 | <0.20 | 0.048J | <10 | <0.40 | <0.40 | <1.0 | |
| 08/10/17 | | <0.10 | 6.4 | <0.10 | <0.10 | <0.20 | 3.9 | <0.10 | <0.10 | 0.39 | 0.065J | <0.30 | <0.10 | 0.045J | <5.0 | <0.20 | <0.20 | <0.50 | |
| 11/28/17 | | <0.10 | 7.2 | <0.10 | <0.10 | <0.20 | 8.3 | <0.10 | <0.10 | 0.4 | 0.087J | <0.30 | <0.10 | 0.043 J | <5.0 | <0.20 | <0.20 | <0.50 | |
| 02/26/18 | | <0.10 | 6.6 | <0.10 | <0.10 | <0.20 | 6.6 | <0.10 | <0.10 | 0.32 | 0.058J | <0.30 | <0.10 | 0.037J | <5.0 | <0.20 | <0.20 | <0.50 | |
| 03/07/23 | | 0.00458 | 12.4 | 0.000341J | <0.0005 | <0.0025 | 0.00256 | 0.0025 | 0.00569 | 0.00265 | 0.005 | 0.000704J | <0.0005 | 0.0304 | 0.0115J | <0.0005 | <0.00125 | <0.0025 | |
| 06/21/23 | | 0.00443 | 12.7 | 0.000516 | 0.000311J | 0.000222J | 0.0293 | 0.00236 | 0.00272 | 0.0158 | 0.0356 | 0.00103J | <0.000500 | 0.0306 | 0.0367 | <0.000500 | <0.00125 | <0.00250 | |
| 09/12/23 | | <0.050 | 4.85 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.0560 | <0.15 | <0.050 | <0.050 | 0.885J | <0.050 | <0.050 | 0.223B | |
| 01/16/24 | | <0.0500 | 8.03 | <0.0500 | <0.0500 | <0.250 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.150 | <0.0500 | <0.0500 | <2.50 | <0.0500 | <0.125 | <0.250 | |

Table 8(2): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(2)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|---|------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------|---------------|----------------------|---------------------------|-----------------|------------------|---------------------------|----------------|--------------------|-------------------------------|-----------|-----------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | 1,2,3-Trimethylbenzene | 1,3,5-Trimethylbenzene | Carbon disulfide | Chlorobenzene | Bromodichloromethane | Isopropylbenzene (Cumene) | n-Propylbenzene | sec-Butylbenzene | trans-1,3-Dichloropropene | n-Butylbenzene | 1,1-Dichloroethane | p-Isopropyltoluene (p-Cymene) | Styrene | |
| | | [mg/L] | | | | | | | | | | | | | | | | | | |
| NC 2L Standard | 4 | 0.04 | 0.1 | 2 | 0.4 | NE | 0.4 | 0.7 | 0.05 | 0.0006 | 0.07 | 0.07 | 0.07 | 0.0004 | 0.07 | 0.006 | 0.025 | 0.070 | | |
| MW-2 | 08/08/06 | 0.059 | <0.01 | <0.01 | <0.010 | <0.005 | NA | <0.005 | NA | <0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.005 | <0.0050 | <0.0050 | |
| | 01/25/07 | <0.022 | <0.0096 | <0.014 | <0.0008 | 0.0036 | NA | 0.0022 | <0.0006 | <0.0006 | <0.0076 | <0.0040 | <0.0052 | <0.0033 | <0.00072 | <0.0044 | <0.0056 | <0.0030 | <0.0048 | |
| | 08/15/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | NA | <0.500 | NA | NA | |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | 1.1 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/07/10 | <0.01 | NA | <0.01 | <1.0 | <0.2 | NA | <0.2 | NA | <0.2 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.20 | <0.0010 | <0.200 |
| | 04/03/12 | <0.01 | NA | <0.01 | <0.5 | <0.1 | NA | <0.1 | NA | <0.1 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 |
| | 06/04/13 | <0.5 | <0.5 | <0.5 | <0.025 | NA | NA | NA | <0.025 | <0.025 | <0.250 | NA | NA | NA | NA | NA | NA | <0.25 | NA | <0.250 |
| | 09/25/13 | Injection material was in the well, therefore a water sample was not able to be collected for VOC analysis. | | | | | | | | | | | | | | | | | | |
| | 12/19/13 | 0.14 | <0.05 | <0.05 | <0.025 | NA | NA | NA | <0.025 | <0.025 | <0.250 | NA | NA | NA | <0.250 | NA | <0.025 | NA | <1.4 | <0.025 |
| | 03/20/14 | <0.50 | <0.25 | <0.25 | <0.050 | <0.025 | NA | <0.025 | NA | <0.025 | <0.012 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| | 07/24/14 | 0.25 | 0.029J | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 |
| | 06/26/15 | 0.5 | 0.031J | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| | 09/27/15 | 0.83 | 0.08 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 |
| | 12/22/15 | 1.7 | 0.21 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | 0.065 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| | 03/28/16 | 1.9 | 0.16 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| | 06/21/16 | 1.2 | 0.17 | <0.050 | <0.010 | <0.0050 | NA | <0.0050 | <0.020 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| | 11/10/16 | 0.86J | <1.0 | <1.0 | <0.20 | <0.10 | NA | <0.10 | <0.40 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| | 02/02/17 | 1.2 | 0.13 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 |
| | 05/04/17 | 2.3 | 0.47 | <0.20 | <0.040 | <0.020 | NA | <0.020 | <0.080 | <0.020 | <0.010 | <0.020 | <0.020 | <0.020 | <0.020 | <0.010 | <0.020 | <0.020 | <0.020 | <0.020 |
| | 08/10/17 | 2.9 | 0.48 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 |
| | 11/28/17 | 3.5 | 0.59 | <0.10 | <0.020 | <0.010 | NA | <0.010 | <0.040 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 | <0.0050 | <0.010 | <0.010 | <0.010 | <0.010 |
| | 02/26/18 | 3.6 | 0.39 | <0.040 | <0.0080 | <0.0040 | NA | <0.0080 | <0.016 | <0.0040 | <0.0020 | <0.0080 | 0.00076J | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0080 | <0.0080 | <0.0040 |
| | 03/07/23 | <0.025 | 0.0133J | <0.025 | <0.0125 | <0.0025 | <0.0025 | <0.0025 | 0.00155J | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| | 06/21/23 | 0.0924 | 0.0475J | 0.00591J | <0.0250 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| | 09/12/23 | 0.367 | 0.104J | <0.063 | <0.013 | <0.013 | NA | <0.013 | <0.025 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 |
| | 01/16/24 | <0.0500 | 0.0413J | 0.00494J | <0.0250 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| | MW-21 | 08/19/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <1.000 | NA | NA |
| | | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | 1.1 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0052 | <0.0010 | <0.0010 |
| 12/07/10 | | <0.01 | NA | <0.01 | <2.5 | <0.5 | NA | <0.5 | NA | <0.5 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | |
| 04/03/12 | | <0.01 | NA | <0.01 | <2.5 | <0.5 | NA | <0.5 | NA | <0.5 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | |
| 06/04/13 | | <0.5 | <0.5 | <0.5 | <0.25 | NA | NA | NA | <0.25 | <0.25 | <0.25 | NA | NA | NA | <0.25 | NA | <0.25 | NA | <0.250 | |
| 09/25/13 | | <0.5 | 0.13J | <0.5 | <0.25 | NA | NA | NA | <0.25 | <0.25 | <0.005 | NA | NA | NA | <0.005 | NA | NA | NA | <1.4 | |
| 12/17/13 | | <10 | <5.0 | <5.0 | <0.25 | NA | NA | NA | <0.25 | <0.25 | <0.25 | NA | NA | NA | <0.25 | NA | NA | NA | <0.25 | |
| 03/20/14 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | NA | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 07/24/14 | | <40 | <20 | <20 | <4.0 | <2.0 | NA | <2.0 | <8.0 | <2.0 | <1.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| 06/24/15 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 09/27/15 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/22/15 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | 0.060J | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 03/28/16 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 06/21/16 | | <10 | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/10/16 | | <5.0 | <2.5 | <2.5 | <0.50 | <0.25 | NA | <0.25 | <1.0 | <0.25 | <0.12 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | |
| 02/02/17 | | 1.6J | <5.0 | <5.0 | <1.0 | <0.50 | NA | <0.50 | <2.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.25 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 05/04/17 | | <4.0 | <2.0 | <2.0 | <0.40 | <0.20 | NA | <0.20 | <0.80 | <0.20 | <0.10 | <0.20 | <0.20 | <0.20 | <0.10 | <0.20 | <0.20 | <0.20 | <0.20 | |
| 08/10/17 | | 0.40J | <1.0 | <1.0 | <0.20 | <0.10 | NA | <0.10 | <0.40 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.10 | |
| 11/28/17 | | 0.38 J | <1.0 | <1.0 | <0.20 | <0.10 | NA | <0.10 | <0.40 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | <0.10 | |
| 02/26/18 | | 0.36J | <1.0 | <1.0 | <0.20 | <0.10 | NA | <0.20 | <0.40 | <0.10 | <0.050 | <0.20 | <0.20 | <0.20 | <0.10 | <0.050 | <0.10 | <0.10 | <0.10 | |
| 03/07/23 | | 0.0518 | <0.005 | <0.005 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 06/21/23 | | 0.0601 | 0.00181J | <0.00500 | <0.00250 | <0.000500 | 0.000183J | <0.000500 | <0.000500 | 0.000555 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | 0.000117J | <0.000500 | <0.000500 |
| 09/12/23 | | 0.275 | <0.05 | <0.05 | <0.050 | <0.050 | NA | <0.050 | <0.10 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 01/16/24 | | <0.500 | <0.500 | < | | | | | | | | | | | | | | | | |

Table 8(1): Analytical Data for Groundwater

ADT 8(1)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|---------------|--------------------------|--------------|--------------------------------|--------------|---------------------|-------------|----------------------------|-------------------|----------------|-----------------|-----------------------|----------------------|---------|------------|---------------|--------------------|--|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | Benzene | cis-1,2-Dichloroethylene | Ethylbenzene | Methyl tert-butyl ether (MTBE) | Naphthalene | Tetrachloroethylene | Toluene | trans-1,2-Dichloroethylene | Trichloroethylene | Vinyl chloride | Xylenes (total) | 1,1,2-Trichloroethane | 1,1-Dichloroethylene | Acetone | Chloroform | Chloromethane | Methylene Chloride | |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 0.001 | 0.07 | 0.6 | 0.02 | 0.006 | 0.0007 | 0.6 | 0.1 | 0.003 | 0.00003 | 0.5 | 0.0006 | 0.35 | 6 | 0.07 | 0.003 | 0.005 | |
| MW-2D | 06/29/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.0055 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.11 | 0.00044J | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.059 | <0.005 | <0.005 | <0.005 | |
| | 09/24/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.15 | 0.0004J | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.096 | <0.005 | <0.005 | <0.005 | |
| | 12/17/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.16 | 0.00036J | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.06 | <0.005 | <0.005 | <0.005 | |
| | 03/20/14 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.24 | 0.00032J | <0.0020 | 0.0021 | <0.0040 | <0.0020 | <0.0020 | <0.0020 | 0.025J | <0.0040 | <0.0040 | <0.010 | |
| | 07/24/14 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | 0.08 | <0.0020 | <0.0020 | 0.0021 | <0.0040 | <0.0040 | <0.0020 | <0.0020 | 0.1 | <0.0040 | <0.010 | <0.010 | |
| | 12/22/15 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0080 | 0.18 | <0.0040 | <0.0040 | 0.008 | <0.0080 | <0.0120 | <0.0040 | <0.0040 | 0.24 | 0.0012J | <0.0080 | <0.020 | |
| | 03/28/16 | <0.0020 | 0.0012J | <0.0020 | <0.0020 | <0.0040 | 0.23 | <0.0020 | <0.0020 | 0.012 | <0.0040 | <0.0060 | <0.0020 | <0.0020 | 0.24 | <0.0040 | <0.0040 | <0.010 | |
| | 06/21/16 | <0.0010 | 0.0012 | <0.0010 | <0.0010 | <0.0020 | 0.27 | <0.0010 | <0.0010 | 0.01 | <0.0020 | <0.0030 | <0.0010 | <0.0010 | 0.12 | <0.0020 | <0.0020 | <0.0050 | |
| | 02/02/17 | <0.0040 | 0.0023J | <0.0040 | <0.0040 | <0.0080 | 0.21 | <0.0040 | <0.0040 | 0.007 | <0.0080 | <0.0120 | <0.0020 | <0.0020 | 0.11J | <0.0080 | <0.0080 | <0.020 | |
| | 08/10/17 | <0.0040 | 0.0021J | <0.0040 | <0.0040 | <0.0080 | 0.14 | <0.0040 | <0.0040 | 0.0047 | <0.0080 | <0.0120 | <0.0040 | <0.0040 | 0.14J | <0.0080 | <0.0080 | <0.020 | |
| | 03/07/23 | <0.0005 | 0.00884 | <0.0005 | <0.0005 | <0.0025 | 0.121 | <0.0005 | <0.0005 | 0.00168 | <0.0005 | <0.0015 | <0.0005 | <0.0005 | <0.025 | <0.0005 | <0.00125 | <0.0025 | |
| MW-3 | 08/08/06 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NA | <0.005 | <0.005 | <0.005 | |
| | 01/25/07 | <0.00012 | <0.00014 | <0.00017 | <0.00010 | <0.00025 | <0.00025 | <0.00015 | <0.00010 | <0.00023 | <0.00015 | <0.00021 | <0.00024 | <0.00014 | <0.036 | <0.00016 | <0.00018 | <0.000088 | |
| | 08/15/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | NA | NA | NA | NA | NA | |
| | 08/21/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/07/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/19/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 07/21/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.05 | <0.0020 | <0.0050 | <0.005 | |
| MW-3I | 08/22/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0030 | NA | <0.0010 | <0.005 | <0.005 | <0.0025 | <0.005 | |
| | 08/21/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/07/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/19/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| MW-4 | 07/21/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.05 | <0.0020 | <0.0050 | <0.0050 | |
| | 08/08/06 | <0.005 | <0.005 | 0.042 | <0.005 | 0.021 | <0.005 | 0.08 | <0.005 | <0.005 | 0.24 | <0.005 | <0.005 | NA | <0.005 | <0.005 | <0.005 | | |
| | 01/25/07 | 0.055 | <0.0014 | 0.27 | <0.0010 | 0.044 | <0.0025 | 0.89 | <0.0010 | <0.0023 | <0.0015 | 1.6 | <0.0024 | <0.0014 | <0.036 | <0.00016 | NA | <0.000088 | |
| | 08/15/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | NA | NA | NA | | |
| | 08/19/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | 0.012 | <0.0010 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/20/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.1 | <0.005 | <0.005 | <0.005 | |
| | 07/21/14 | <0.0010 | <0.0010 | 0.00012J | <0.0010 | 0.00032J | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | 0.00032J | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 | |
| | 12/21/15 | 0.00019J | <0.0010 | 0.0038 | <0.0010 | 0.0039 | <0.00050 | 0.00025J | <0.0010 | <0.0010 | <0.0020 | 0.00967 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 | |
| | 06/20/16 | 0.0076 | <0.0010 | 0.48 | <0.0010 | 0.22 | <0.00050 | 0.028 | <0.0010 | <0.0010 | <0.0020 | 0.93 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 | |
| | 02/01/17 | 0.0041 | <0.0020 | 0.26 | <0.0020 | 0.058 | 0.0013 | 0.008 | <0.0020 | <0.0020 | <0.0040 | 0.36 | <0.0010 | <0.0020 | <0.10 | <0.0040 | <0.0040 | <0.010 | |
| 08/09/17 | 0.00091J | <0.0010 | 0.019 | <0.0010 | 0.11 | <0.00050 | 0.00048J | <0.0010 | <0.0010 | <0.0020 | 0.0284 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 | | |

Table 8(2): Analytical Data for Groundwater (User Specified Chemicals) ADT 8(2)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|------------|------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------|---------------|----------------------|---------------------------|-----------------|------------------|---------------------------|----------------|--------------------|-------------------------------|---------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | 1,2,3-Trimethylbenzene | 1,3,5-Trimethylbenzene | Carbon disulfide | Chlorobenzene | Bromodichloromethane | Isopropylbenzene (Cumene) | n-Propylbenzene | sec-Butylbenzene | trans-1,3-Dichloropropene | n-Butylbenzene | 1,1-Dichloroethane | p-Isopropyltoluene (p-Cymene) | Styrene |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 4 | 0.04 | 0.1 | 2 | 0.4 | NE | 0.4 | 0.7 | 0.05 | 0.0006 | 0.07 | 0.07 | 0.07 | 0.0004 | 0.07 | 0.006 | 0.025 | 0.070 |
| MW-2D | 06/29/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 06/04/13 | 0.012 | 0.0024J | 0.0049J | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 |
| | 09/24/13 | 0.006J | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 |
| | 12/17/13 | <0.01 | <0.01 | 0.0039J | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 |
| | 03/20/14 | <0.040 | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | NA | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| | 07/24/14 | 0.037J | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| | 12/22/15 | 0.014J | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 |
| | 03/28/16 | 0.012J | <0.020 | <0.020 | <0.0040 | <0.0020 | NA | <0.0020 | <0.0080 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0010 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| | 06/21/16 | 0.0043J | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 02/02/17 | <0.080 | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 |
| | 08/10/17 | 0.011J | <0.040 | <0.040 | <0.0080 | <0.0040 | NA | <0.0040 | <0.016 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0020 | <0.0040 | <0.0040 | <0.0040 | <0.0040 |
| | 03/07/23 | <0.005 | <0.005 | <0.005 | <0.0025 | <0.0005 | <0.0005 | <0.0005 | 0.000385J | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | MW-3 | 08/08/06 | <0.01 | <0.01 | <0.01 | <0.010 | <0.005 | NA | <0.005 | NA | <0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| 01/25/07 | | <0.00056 | <0.00024 | <0.00036 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.00014 | NA | NA |
| 08/15/08 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | NA |
| 08/21/09 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| 12/07/10 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| 04/02/12 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| 12/19/13 | | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.00018 | NA | NA | NA | NA | NA | <0.005 | NA | <0.005 |
| 07/21/14 | | <0.020 | <0.010 | <0.010 | 0.00076J | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | |
| MW-31 | 08/22/08 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 08/21/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/07/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/19/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | |
| MW-4 | 07/21/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | |
| | 08/08/06 | <0.01 | <0.01 | <0.01 | <0.010 | 0.11 | NA | 0.032 | NA | <0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.005 | <0.0050 | |
| | 01/25/07 | <0.00056 | <0.00024 | <0.00036 | <0.0064 | <0.0038 | NA | <0.0044 | <0.0048 | <0.0044 | NA | NA | NA | NA | NA | NA | <0.0014 | NA | |
| | 08/15/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | NA |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | 0.021 | NA | 0.01 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/20/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | |
| | 07/21/14 | <0.020 | <0.010 | <0.010 | <0.0020 | 0.00057J | NA | 0.00020J | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/21/15 | <0.020 | <0.010 | <0.010 | <0.0020 | 0.015 | NA | 0.0041 | <0.0040 | <0.0010 | <0.00050 | 0.00079J | 0.0011 | 0.00014J | <0.00050 | <0.0010 | <0.0010 | <0.0010 | |
| | 06/20/16 | <0.020 | <0.010 | <0.0081J | <0.0020 | 1 | NA | 0.29 | <0.0040 | <0.0010 | <0.00050 | 0.056 | 0.11 | 0.0011 | <0.00050 | 0.027 | <0.0010 | 0.0034 | |
| | 02/01/17 | <0.040 | <0.020 | 0.0033J | <0.0040 | 0.53 | NA | 0.2 | <0.0080 | <0.0020 | <0.0020 | 0.035 | 0.077 | 0.0037 | <0.0010 | 0.019 | <0.0020 | 0.0023 | |
| 08/10/17 | <0.020 | <0.010 | <0.010 | <0.0020 | 0.072 | NA | 0.041 | <0.0040 | <0.0010 | <0.00050 | 0.0048 | 0.003 | 0.00073J | <0.00050 | 0.0041 | <0.0010 | 0.00031J | | |

Table 8(1): Analytical Data for Groundwater

ADT 8(1)

DSCA ID No.: DC920037

| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | Benzene | cis-1,2-Dichloroethylene | Ethylbenzene | Methyl tert-butyl ether (MTBE) | Naphthalene | Tetrachloroethylene | Toluene | trans-1,2-Dichloroethylene | Trichloroethylene | Vinyl chloride | Xylenes (total) | 1,1,2-Trichloroethane | 1,1-Dichloroethylene | Acetone | Chloroform | Chloromethane | Methylene Chloride |
|----------------------------|--------------------------|----------|--------------------------|--------------|--------------------------------|-------------|---------------------|----------|----------------------------|-------------------|----------------|-----------------|-----------------------|----------------------|----------|------------|---------------|--------------------|
| | | [mg/L] | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 0.001 | 0.07 | 0.6 | 0.02 | 0.006 | 0.0007 | 0.6 | 0.1 | 0.003 | 0.00003 | 0.5 | 0.0006 | 0.35 | 6 | 0.07 | 0.003 | 0.005 |
| MW-4I | 08/20/08 | 0.00076J | <0.0010 | 0.00924 | NA | NA | <0.0070 | 0.024 | <0.0010 | <0.0010 | <0.0010 | 0.0476 | NA | <0.0010 | NA | NA | NA | NA |
| | 08/19/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 12/20/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 07/21/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 |
| | 12/21/15 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0030 | <0.0010 | <0.010 | <0.050 | <0.0020 | <0.0020 |
| | 06/20/16 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0030 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 |
| | 02/01/17 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0030 | <0.00050 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 |
| | 08/09/17 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0030 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0020 | <0.0050 |
| MW-5 | 01/25/07 | <0.00012 | <0.00014 | <0.00017 | <0.00010 | <0.00025 | <0.00025 | <0.00015 | <0.00010 | <0.00023 | <0.00015 | <0.00021 | <0.00024 | <0.00014 | 0.18 | <0.00016 | <0.00018 | <0.000088 |
| | 08/15/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | NA | NA | NA | NA |
| | 08/18/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 12/07/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.00068J | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 09/25/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.0029J | <0.005 | <0.005 | <0.005 |
| | 12/17/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 03/19/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | 0.00025J | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0010 | <0.0010 | <0.0010 | <0.050 | <0.0020 | 0.00063J | <0.0050 |
| | 07/23/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 |
| MW-5I | 08/20/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | NA | NA | NA |
| | 08/18/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 12/07/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.002 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 09/25/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.00046J | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 12/17/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 |
| | 03/19/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0010 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.005 | <0.0050 |
| | 07/23/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | 0.011J | <0.0020 | <0.0050 | <0.0050 |
| | MW-6 | 01/25/07 | <0.00012 | <0.00014 | <0.00017 | <0.00010 | <0.00025 | <0.00025 | 0.00046J | <0.00010 | <0.00023 | <0.00015 | 0.00053J | <0.00024 | <0.00014 | 0.26 | <0.00016 | NA |
| 08/15/08 | | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | NA | NA | NA |
| 08/18/09 | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| 12/09/10 | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| 04/02/12 | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 |
| 12/19/13 | | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.25 | <0.005 | <0.005 | <0.005 |
| 07/24/14 | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | 0.048J | <0.0020 | <0.0050 | <0.0050 |

Table 8(2): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(2)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|------------|------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------|---------------|----------------------|---------------------------|-----------------|------------------|---------------------------|----------------|--------------------|-------------------------------|----------|---------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | 1,2,3-Trimethylbenzene | 1,3,5-Trimethylbenzene | Carbon disulfide | Chlorobenzene | Bromodichloromethane | Isopropylbenzene (Cumene) | n-Propylbenzene | sec-Butylbenzene | trans-1,3-Dichloropropene | n-Butylbenzene | 1,1-Dichloroethane | p-Isopropyltoluene (p-Cymene) | Styrene | |
| | | [mg/L] | | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 4 | 0.04 | 0.1 | 2 | 0.4 | NE | 0.4 | 0.7 | 0.05 | 0.0006 | 0.07 | 0.07 | 0.07 | 0.0004 | 0.07 | 0.006 | 0.025 | 0.070 | |
| MW-4I | 08/20/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | NA | |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/20/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| | 07/21/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/21/15 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 06/20/16 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 02/01/17 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 08/09/17 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-5 | 01/25/07 | <0.00056 | <0.00024 | <0.00036 | <0.00016 | <0.000096 | NA | <0.00011 | <0.00012 | <0.00011 | <0.00019 | <0.00010 | <0.00013 | <0.000082 | <0.00018 | <0.11 | <0.00014 | <0.000074 | <0.00012 | |
| | 08/15/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 08/18/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/07/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 06/04/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 09/25/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| | 12/17/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 03/19/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | NA | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 07/23/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-5I | 08/20/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | NA | |
| | 08/18/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 12/07/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| | 06/04/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 09/25/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| | 12/17/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 | |
| | 03/19/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | NA | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 07/23/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | MW-6 | 01/25/07 | <0.00056 | <0.00024 | <0.00036 | <0.0064 | <0.0038 | NA | <0.0044 | <0.0048 | <0.0044 | NA | NA | NA | NA | NA | NA | <0.00014 | NA | NA |
| 08/15/08 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | NA | |
| 08/18/09 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| 12/09/10 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| 04/02/12 | | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| 12/19/13 | | <0.01 | 0.0057J | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 | |
| 07/24/14 | | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | |

Table 8(1): Analytical Data for Groundwater

ADT 8(1)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|---------------|--------------------------|--------------|--------------------------------|-------------|---------------------|-----------|----------------------------|-------------------|------------------|-----------------|-----------------------|----------------------|----------|------------|---------------|--------------------|--------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | Benzene | cis-1,2-Dichloroethylene | Ethylbenzene | Methyl tert-butyl ether (MTBE) | Naphthalene | Tetrachloroethylene | Toluene | trans-1,2-Dichloroethylene | Trichloroethylene | Vinyl chloride | Xylenes (total) | 1,1,2-Trichloroethane | 1,1-Dichloroethylene | Acetone | Chloroform | Chloromethane | Methylene Chloride | |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 0.001 | 0.07 | 0.6 | 0.02 | 0.006 | 0.0007 | 0.6 | 0.1 | 0.003 | 0.00003 | 0.5 | 0.0006 | 0.35 | 6 | 0.07 | 0.003 | 0.005 | |
| MW-10 | 08/22/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 08/19/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.0013 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/03/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/18/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | 0.15 | <0.005 | <0.005 | <0.005 |
| MW-10D | 07/22/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | 0.32 | <0.0020 | <0.0050 | <0.0050 | |
| | 06/29/12 | 0.0045 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | | |
| | 12/18/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.018J | <0.005 | <0.005 | <0.005 | |
| | 07/22/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 | |
| MW-11S | 08/21/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | <0.005 | NA | NA | |
| | 08/19/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| MW-11I | 12/18/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 07/22/14 | <0.0010 | <0.0010 | <0.0010 | 0.00017J | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 | |
| | 08/21/08 | <0.0010 | <0.0010 | <0.0010 | NA | NA | <0.0070 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | NA | <0.0010 | NA | NA | NA | NA | |
| | 08/19/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| MW-11D | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/02/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/18/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 07/22/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 | |
| DW-1 | 06/29/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/18/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 07/22/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.0050 | <0.0050 | |
| | 08/21/09 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | <0.0010 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 12/08/10 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.0016 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 04/03/12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 0.0014 | <0.0050 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.05 | <0.005 | <0.0025 | <0.005 | |
| | 06/04/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0007 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.017J | <0.005 | <0.005 | <0.005 | |
| | 09/25/13 | <0.0005 | <0.005 | <0.005 | <0.005 | 0.00073J | 0.0018 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 12/17/13 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.00079 | <0.005 | <0.005 | <0.0028 | <0.0005 | <0.005 | <0.005 | <0.005 | <0.05 | <0.005 | <0.005 | <0.005 | |
| | 03/20/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | 0.0009 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.005 | <0.0050 | |
| | 07/23/14 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | 0.00046J | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 | <0.0010 | <0.050 | <0.0020 | <0.005 | <0.0050 | |
| | 07/24/19 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00150 | <0.000500 | <0.000500 | 0.00128J | 0.000147J | <0.00125 | <0.00250 | |
| DW-2 | 10/23/19 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | 0.000243J | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00150 | <0.000500 | <0.000500 | 0.0101J | <0.000500 | <0.00125 | <0.00250 | |
| | 01/23/20 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00150 | <0.000500 | <0.000500 | <0.0250 | <0.000500 | <0.00125 | <0.00250 | |
| | 07/22/20 | <0.0000941 | <0.000126 | <0.000337 | <0.000101 | <0.00100 | <0.000300 | <0.000278 | <0.000149 | <0.000190 | <0.000234 | <0.000174 | <0.000158 | <0.000188 | <0.0113 | <0.000111 | <0.000960 | <0.000430 | |
| | 07/24/19 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | 0.00136 | <0.000500 | <0.000500 | <0.000500 | <0.00150 | <0.000500 | <0.000500 | 0.0155J | 0.000260J | <0.00125 | <0.00250 | |
| | 10/23/19 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | 0.000988 | <0.000500 | <0.000500 | <0.000500 | <0.00150 | <0.000500 | <0.000500 | 1.84 | <0.000500 | <0.00125 | <0.00250 | |
| | 01/23/20 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | 0.000990 | <0.000500 | <0.000500 | 0.000229J | <0.00150 | <0.000500 | <0.000500 | 0.0161J | <0.000500 | <0.00125 | <0.00250 | |
| | 07/22/20 | <0.0000941 | <0.000126 | <0.000137 | <0.000101 | <0.00100 | <0.000300 | 0.000838J | <0.000149 | <0.000190 | <0.000234 | <0.000174 | <0.000158 | <0.000188 | <0.0113 | <0.000111 | <0.000960 | <0.000430 | |

Table 8(2): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(2)

| DSCA ID No.: DC920037 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------|------------|------------|----------------------|-----------------|------------------------|------------------------|------------------------|------------------|---------------|----------------------|---------------------------|-----------------|------------------|---------------------------|----------------|--------------------|-------------------------------|-----------|
| Groundwater Sampling Point | Sampling Date (mm/dd/yy) | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Trichloroethene | 1,2,4-Trimethylbenzene | 1,2,3-Trimethylbenzene | 1,3,5-Trimethylbenzene | Carbon disulfide | Chlorobenzene | Bromodichloromethane | Isopropylbenzene (Cumene) | n-Propylbenzene | sec-Butylbenzene | trans-1,3-Dichloropropene | n-Butylbenzene | 1,1-Dichloroethane | p-Isopropyltoluene (p-Cymene) | Styrene |
| | | [mg/L] | | | | | | | | | | | | | | | | | |
| NC 2L Standard | | 4 | 0.04 | 0.1 | 2 | 0.4 | NE | 0.4 | 0.7 | 0.05 | 0.0006 | 0.07 | 0.07 | 0.07 | 0.0004 | 0.07 | 0.006 | 0.025 | 0.070 |
| MW-10 | 08/22/08 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 04/03/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/18/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| MW-10D | 07/22/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 06/29/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/18/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| | 07/22/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-11S | 08/21/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | <0.0010 |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-11I | 12/18/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| | 07/22/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 08/21/08 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.0010 | NA | <0.0010 |
| | 08/19/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-11D | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 04/02/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/18/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| | 07/22/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | 0.0012J | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| DW-1 | 06/29/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/18/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| | 07/22/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 08/21/09 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 12/08/10 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 04/03/12 | <0.01 | NA | <0.01 | <0.005 | <0.001 | NA | <0.001 | NA | <0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 06/04/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 |
| | 09/25/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.28 |
| | 12/17/13 | <0.01 | <0.01 | <0.01 | <0.005 | NA | NA | NA | <0.005 | <0.005 | <0.005 | NA | NA | NA | <0.005 | NA | <0.005 | NA | <0.005 |
| | 03/20/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | NA | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 07/23/14 | <0.020 | <0.010 | <0.010 | <0.0020 | <0.0010 | NA | <0.0010 | <0.0040 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.00050 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | 07/24/19 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | 0.000215J | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| DW-2 | 10/23/19 | <0.00500 | <0.00500 | <0.00500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| | 01/23/20 | <0.00500 | <0.00500 | <0.00500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| | 07/22/20 | <0.00119 | NA | <0.000478 | <0.000160 | <0.000322 | <0.000500 | <0.000104 | NA | <0.000116 | <0.000136 | <0.000105 | <0.0000993 | <0.000125 | <0.000118 | <0.000157 | <0.000188 | <0.000120 | <0.000118 |
| | 07/24/19 | <0.000500 | <0.000500 | <0.000500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | 0.000173J | 0.000162J | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| | 10/23/19 | <0.00500 | <0.00500 | <0.00500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | 0.00163 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| | 01/23/20 | <0.00500 | <0.00500 | <0.00500 | <0.00250 | <0.000500 | <0.000500 | <0.000500 | 0.000639 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 | <0.000500 |
| 07/22/20 | <0.00119 | NA | <0.000478 | <0.000160 | <0.000322 | <0.000500 | <0.000104 | NA | <0.000116 | <0.000136 | <0.000105 | <0.0000993 | <0.000125 | <0.000118 | <0.000157 | <0.000188 | <0.000120 | <0.000118 | |

APPENDIX B

LEVEL 1 ECOLOGICAL RISK ASSESSMENT CHECKLISTS

Appendix B
Ecological Risk Assessment – Level 1
Avalon Cleaners
686 Cary Towne Boulevard
Cary, Wake County, NC
DSCA Site ID DC920037

Checklist A

1. Are there navigable water bodies or tributaries to a navigable water body on or within the one-half mile of the site?

Based on the United State Geological Survey (USGS) Cary Quadrangle Topographic Map and the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI), an unnamed tributary of Walnut Creek begins approximately 320 feet to the west of the former dry-cleaning facility and flows east. However, based on ATC's site reconnaissance the tributary begins approximately 980 feet northeast of the former Avalon Cleaners. The surface water identified on *Figure 1* and *Figure 2* on the adjacent property to the north is culverted through a storm sewer that discharges into the tributary. Walnut Creek is located outside of the one half-mile radius and has a classification of C; Nutrient Sensitive Water (NSW). Lynn Branch (class WS-III; NSW) is approximately 2,615 feet southwest of the former Avalon Cleaners and flows south towards Lochmere Lake and Swift Creek. Finally, the source of Walnut Creek (an unnamed freshwater pond) is located approximately 2,475 feet to the northwest of the former dry-cleaner.

2. Are there any water bodies anywhere on or within one-half mile of the site?

The water bodies located within one-half mile radius of the site are identified in Question 1. There are no additional surface water bodies within one half-mile radius of the site.

3. Are there any wetland areas such as marshes or swamps on or within one-half mile of the site?

Based on the USFWS Wetland Map, there are no wetlands such as marshes or swamps within one-half mile of the site.

4. Are there any sensitive environmental areas on or within one-half mile of the site?

According to the North Carolina Natural Heritage Database, Lions Park is located approximately 650 feet southwest and RS Dunham Park is approximately 1,240 feet northwest of the former Avalon Cleaners, both of which are owned by the local government. Protections from the local government are also noted for a wooded lot approximately 830 feet to the north of the source property containing the tributary to Walnut Creek and two adjacent wooded lots

approximately 2,600 feet to the south of the south property that contain stormwater retention ponds. No archaeological sites were found within one-half mile.

5. Are there any areas on or within one-half mile of the site owned or used by local tribes?

Based on site observations and the North Carolina Department of Cultural Resources, no tribal artifacts or lands have been identified on or within one-half mile of the site. The Native American Consultation Database maintained by the National Park Service did not indicate any tribal areas located within a one-half mile radius of the site.

6. Are there any habitat, foraging area or refuge by rare, threatened, endangered, candidate and/or proposed species (plants or animals), or any otherwise protected species on or within one-half mile of the site?

According to the North Carolina Natural Heritage Database, there is no habitat, foraging area, or refuge utilized by rare, threatened, endangered, candidate and/or proposed species (plants and animals), or any otherwise protected species on or within one-half mile of the site. This is a developed area with commercial and residential properties. Based on the USFWS online databases, there are no wilderness areas or wildlife refuges within one-half mile of the site.

7. Are there any breeding, roosting or feeding areas by migratory bird species on or within one-half mile of the site?

ATC obtained a list of bird species that have been identified in Wake County from eBird.org (see *Attachment 1*). This list includes several migratory bird species. The National Audubon Society has identified 96 Important Bird Areas (IBAs) in North Carolina, comprising 4.9 million acres (<http://nc.audubon.org/conservation/important-bird-areas>). IBAs are defined as “places that provide essential habitat for one or more species of birds at some time during their annual cycle of breeding, migrating or wintering”. There are two IBA areas located in Wake County, but none are located with one-half mile radius of the source property.

8. Are there any ecologically, recreationally, or commercially important species on or within one-half mile of the site?

This site is located in an urban and suburban environment with mostly commercial and residential properties surrounding the site. It is unlikely that recreational or commercially important species are within the developed areas within one-half mile of the site. However, a tributary of Walnut Creek and Lynn Branch are located within one-half mile of the site. Walnut Creek and Lynn Branch are areas where possible ecologically important species may exist.

9. Are there any threatened and/or endangered species (plant or animal) on or within one-half mile of the site?

ATC reviewed the Center for Biological Diversity and the U.S. Endangered Species Act online species list. Several endangered and threatened species were identified within Wake County. Examples of endangered and threatened species identified within Wake County include the Cape Fear shiner (*Notropis mekistocholas*), multiple species of mussels and clams, Michaux’s

sumac, Tricolored bat and the Atlantic pigtoe. The Center for Biological Diversity list of endangered species, threatened species, federal species of concern and candidate species in Wake County is included in *Attachment 2*.

ATC also reviewed the North Carolina Heritage Program species list for Wake County for a list of rare plants and animals, natural communities, and important animal assemblages and their Federal and North Carolina status. Refer to *Attachment 3* for the complete list of species.

Most of the area within one-half mile of the site consists of developed commercial properties. It is unlikely that the above referenced species are located on these properties.

Checklist B

1A. Can chemicals associated with the site leach, dissolve, or otherwise migrate to groundwater?

Yes. The primary constituent of concern at the site, tetrachloroethylene (PCE), is leachable to groundwater. Furthermore, impacted groundwater has been confirmed at the site.

1B. Are chemicals associated with the site mobile in groundwater?

Yes. Chemical mobility is primarily influenced by the chemical solubility and soil-water partition coefficient. Based on these values, PCE is classified as moderately mobile (Fetter, 1988).

1C. Does groundwater from the site discharge to an ecological receptor habitat?

A tributary of Walnut Creek located is approximately 980 feet northeast of the former Avalon Cleaners. Lynn Branch is approximately 2,615 feet southwest of the former Avalon Cleaners. In addition, the source of Walnut Creek (an unnamed freshwater pond) is located approximately 2,475 feet to the northwest of the former dry-cleaner. Groundwater flows north across the site. As a result, the primary ecological receptor habitat identified in the site vicinity is the tributary of Walnut Creek. Modeling results for the protection of surface water evaluation indicated exceedances of site-specific target levels (SSTLs) for source groundwater for the tributary; however, plume stability monitoring indicates the groundwater plume is stable and does not extend beyond the most downgradient well located on the source property. Furthermore, five surface water samples and three pore water samples collected from the tributary did not identify any compounds above laboratory reporting limits. Based on this data, the ecological receptor habitat is not a significant concern.

1. Could chemicals associated with the site reach ecological receptors through groundwater?

No. The primary ecological receptor habitat identified in the site vicinity is the tributary of Walnut Creek located approximately 980 feet to the northwest of the former dry-cleaning facility. Modeling results for the protection of surface water evaluation indicated exceedances of SSTLs for source groundwater for the tributary; however, plume stability monitoring indicates the groundwater plume is stable and does not extend beyond the most downgradient well located on the source property. Furthermore, five surface water samples and three pore water samples collected from the tributary did not identify any compounds above laboratory reporting limits. Based on this data, the ecological receptor habitat is not a significant concern.

2A. Are chemicals present in surface soils on the site?

During historical assessment activities, only four samples have been collected from 0-1 feet below ground surface (bgs), all of which did not identify compounds above the Inactive

Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs). However, it is assumed chemicals are present in surface soils on the site.

2B. Can chemicals be leached from or be transported by erosion of surface soils on the site?

No. The area of soil impacts is overlain by impervious surfaces or landscaped areas. As a result, erosion and runoff are not concerns

2. Could chemicals associated with the site reach ecological receptors through runoff or erosion?

No. Although impacted surficial soils are present at the site, they are overlain by impervious surfaces and landscaped areas.

3A. Are chemicals present in the surface soil or on the surface of the ground?

During historical assessment activities, only four samples have been collected from 0-1 feet bgs, all of which did not identify compounds above the IHSB PSRGs. However, it is assumed chemicals are present in surface soils on the site.

3B. Are potential ecological receptors on the site?

No. There is no evidence of ecological receptors at the site.

3. Could chemicals associated with the site reach ecological receptors through direct contact?

As discussed above, ecological receptors are unlikely to be present in the area of surficial soil impact. Furthermore, soil impacts are overlain by impervious surfaces and landscaped areas, inhibiting direct contact.

4A. Are chemicals on the site volatile?

Yes. Chlorinated solvent constituents are considered volatile organic compounds.

4B. Could chemicals on the site be transported in air as dust or particulate matter?

No. The identified impacted surficial soil is located under impervious surfaces or landscaped areas.

4. Could chemicals associated with the site reach ecological receptors through inhalation of volatilized chemicals or adhered chemicals to dust in ambient air or in subsurface burrows?

As discussed above, significant erosion of impacted soils or significant volatilization from impacted soils is not possible as the soil impacts are located beneath impervious surfaces or landscaped areas.

5A. Is Non-Aqueous Phase Liquid (NAPL) present at the site?

Initial groundwater sampling at the site in July 2006 identified PCE concentrations as high as 39.8 milligrams per liter (mg/L), exceeding 10% of the solubility limit in water (150 mg/L), which could indicate the presence of NAPL. However, NAPL has not been identified at the site.

5B. Is NAPL migrating?

No. NAPL has not been encountered at the site.

5C. Could NAPL discharge occur where ecological receptors are found?

No. NAPL has not been encountered at the site.

5. Could chemicals associated with the site reach ecological receptors through migration of NAPL?

No. NAPL has not been encountered at the site.

6A. Are chemicals present in the surface and shallow subsurface soils or on the surface of the ground?

Yes. Impacted shallow subsurface soils are present at the site.

6B. Are chemicals found in soil on the site taken up by plants growing on the site?

Potentially. Surface soil impacts are potentially under landscaped surfaces at the site.

6C. Do potential ecological receptors on or near the site feed on plants (e.g., grasses, shrubs, forbs, trees, etc.) found on the site?

Potentially, however, none have been specifically identified.

6D. Do chemicals found on the site bioaccumulate?

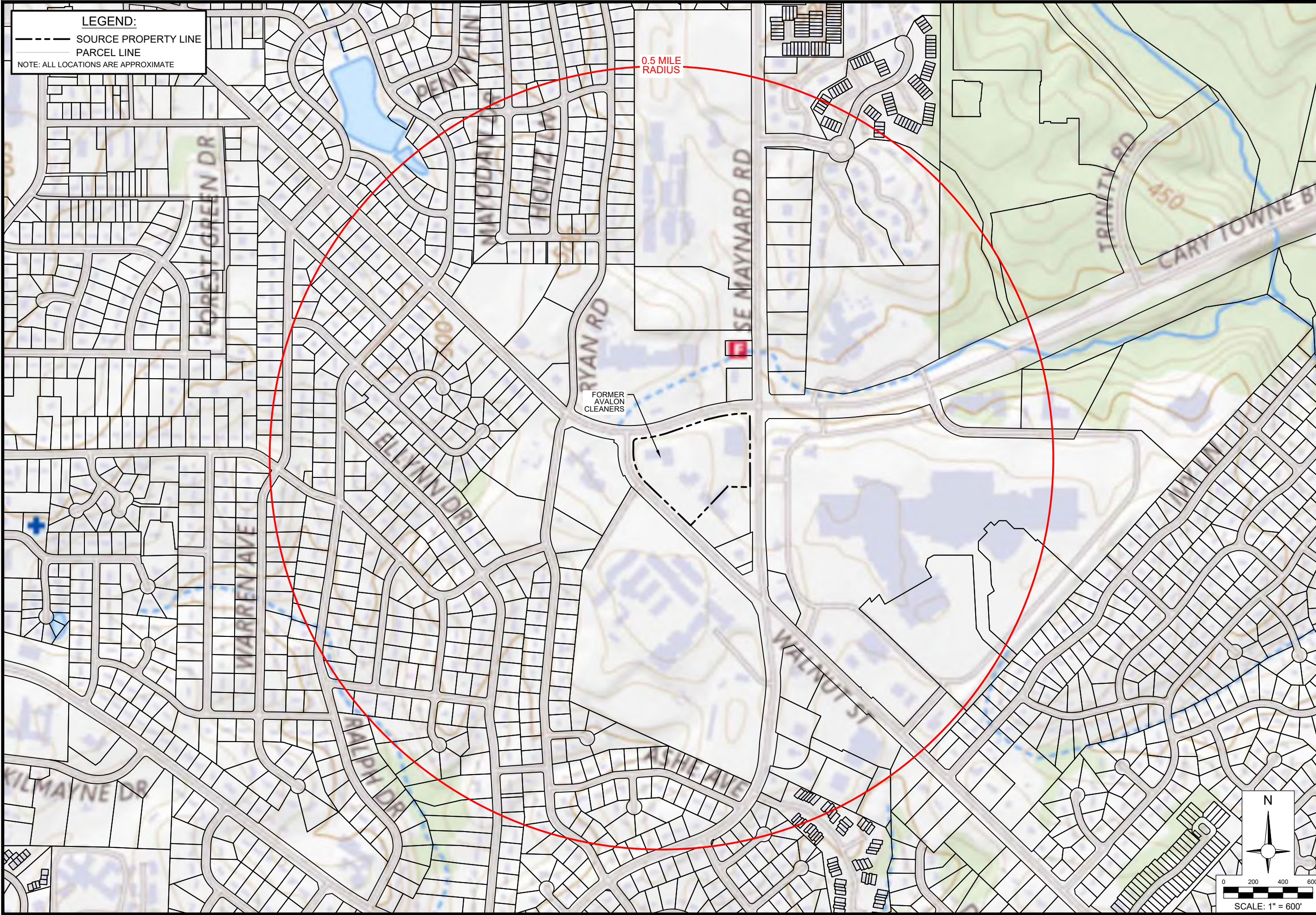
Based on published references (U.S. Agency for Toxic Substances and Disease Registry), chlorinated solvent constituents do not typically bioaccumulate.

6. Could chemicals associated with the site reach ecological receptors through direct ingestion of soil, plants, animals, or contaminants?

7. Based on the commercial site environment, the absence of bioaccumulation for the chemicals of concern, and the soil impacts being overlain by impervious surfaces and landscaped areas, it is not anticipated that chemicals associated with the site would reach ecological receptors through direct ingestion of soil, plants, animals, or contaminants.

FIGURES

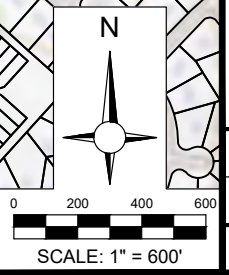
C:\USERS\DAVID.HUGHES\ONE DRIVE\ASSETS\SERVER\2024\CAD DEPARTMENT\DC9237SL22-TOPO.DWG, FIG 1



LEGEND:
 - - - SOURCE PROPERTY LINE
 _____ PARCEL LINE
 NOTE: ALL LOCATIONS ARE APPROXIMATE

0.5 MILE RADIUS

FORMER AVALON CLEANERS



NOTES:
 1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
 2. Utility locations area based on May 4, 2010 Assessment Report.

| | |
|-----------------|----------------|
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| DSCA Site ID: | DC920037 |
| Dim. By: | DH |
| Appd. By: | AO |
| Chk. Date: | |

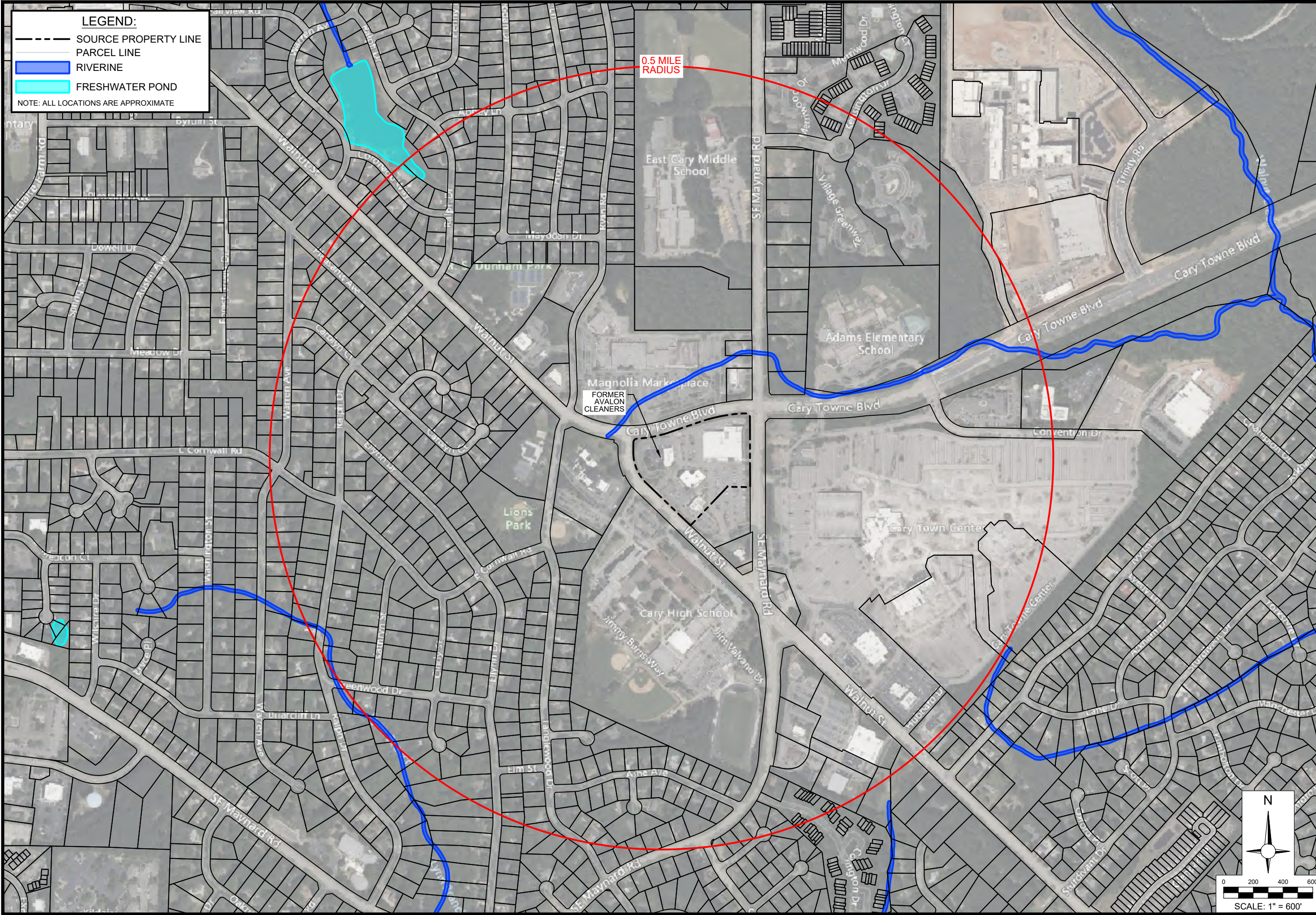


TOPOGRAPHIC MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 12/24
 Scale: AS SHOWN
 Figure: 1

COORDINATE SYSTEM:
 NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

C:\USERS\DAVID.HUGHES\ONEATLAS\FILE SERVER\2024\CAD DEPARTMENT\DC9237SL22-WETLANDS.DWG, FIG 2



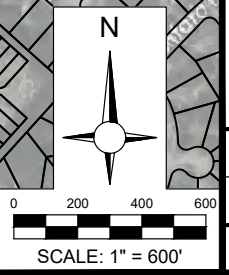
LEGEND:

- SOURCE PROPERTY LINE
- PARCEL LINE
- RIVERINE
- FRESHWATER POND

NOTE: ALL LOCATIONS ARE APPROXIMATE

0.5 MILE RADIUS

FORMER AVALON CLEANERS



| | |
|-----------------|----------------|
| Dim. By: | DH |
| DSCA Site ID: | DC920037 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| Chk. By: | AO |
| App'd By: | |
| Chk. Date: | |



NOTES:

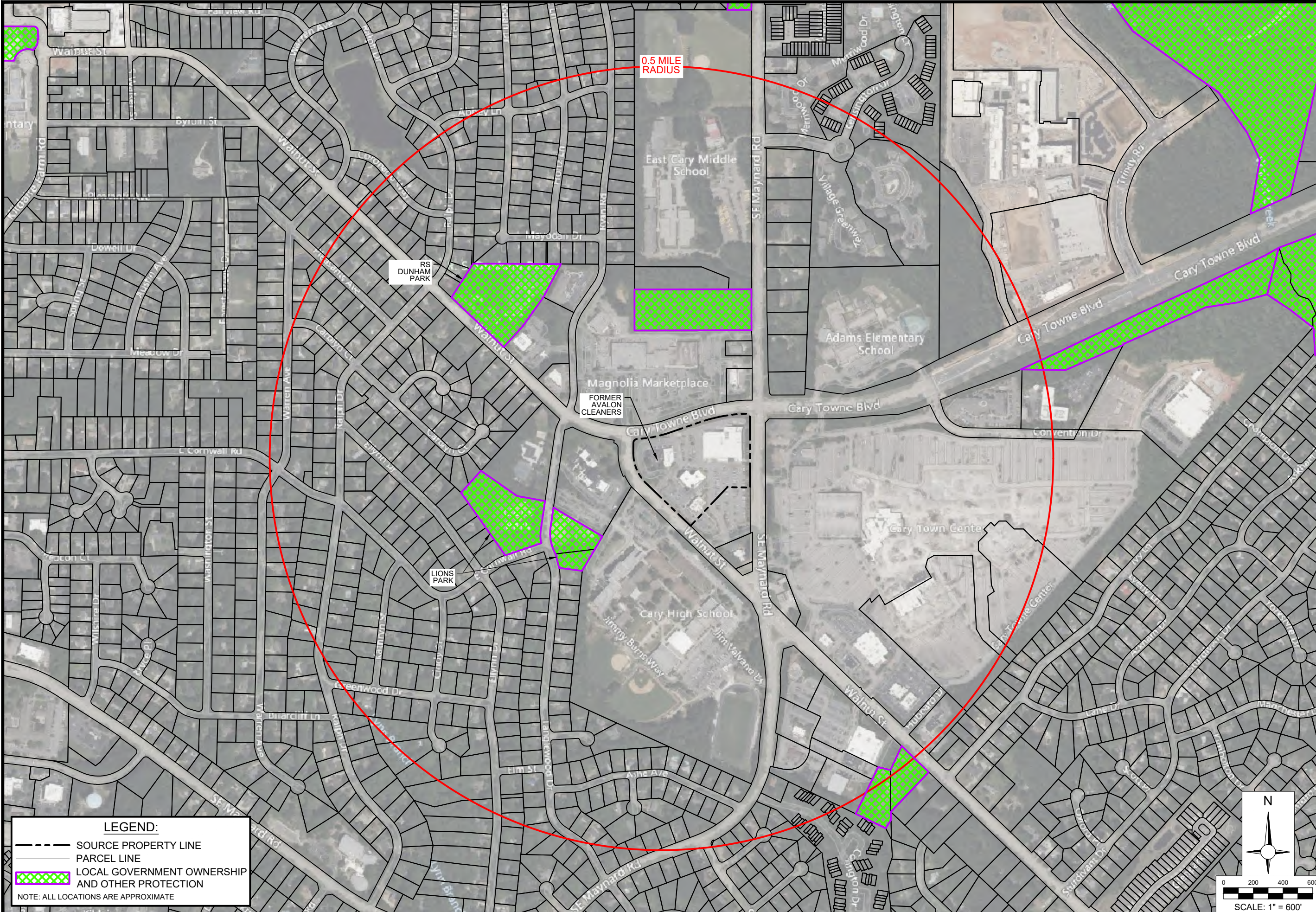
- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
- Utility locations area based on May 4, 2010 Assessment Report.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

USFWS WETLANDS INVENTORY MAP
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

| | |
|---------|----------|
| Date: | 12/24 |
| Scale: | AS SHOWN |
| Figure: | 2 |

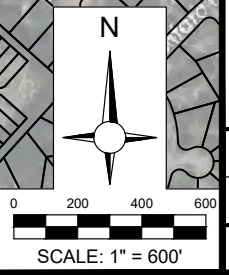
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LEGEND:

- SOURCE PROPERTY LINE
- PARCEL LINE
- ▨ LOCAL GOVERNMENT OWNERSHIP AND OTHER PROTECTION

NOTE: ALL LOCATIONS ARE APPROXIMATE



| | |
|-----------------|----------------|
| Dim. By: | DH |
| DSCA Site ID: | DC9237SL22 |
| Project Number: | DC9237SL22 |
| Drawing File: | SEE LOWER LEFT |
| Chk. By: | AO |
| App'd By: | |
| Chk. Date: | |



NOTES:

- Features shown are not an authoritative location, nor are they presented to a stated accuracy.
- Utility locations area based on May 4, 2010 Assessment Report.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

HISTORIC PRESERVATION SITES
 AVALON CLEANERS
 686 CARY TOWNE BOULEVARD
 CARY, NORTH CAROLINA

Date: 12/24
 Scale: AS SHOWN
 Figure: **3**

ATTACHMENT 1

MIGRATORY BIRD SPECIES LIST

Change Region ▾

Wake

North Carolina, United States



▶ REGION NAVIGATION

Bird List

Updated ~28 hours ago

 **332**

All Years

 **226**

This Year

 **151**

This Month

Last Observed

First Observed

High Count

Custom Time Period ▾

| SPECIES NAME | COUNT | DATE ▾ | OBSERVER | LOCATION |
|---|-------|-------------|------------|---|
| 1. Canada Goose <i>Branta canadensis</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 2. Mallard <i>Anas platyrhynchos</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 3. Mourning Dove <i>Zenaida macroura</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 4. Great Blue Heron <i>Ardea herodias</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 5. Eastern Phoebe <i>Sayornis phoebe</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 6. Blue Jay <i>Cyanocitta cristata</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 7. Fish Crow <i>Corvus ossifragus</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 8. Carolina Chickadee <i>Poecile carolinensis</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |

| | | | | | | |
|-----|--|---|---|-------------|------------|---|
| 9. | Tufted Titmouse <i>Baeolophus bicolor</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 10. | Ruby-crowned Kinglet <i>Corthylio calendula</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 11. | Brown-headed Nuthatch <i>Sitta pusilla</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 12. | Carolina Wren <i>Thryothorus ludovicianus</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 13. | European Starling <i>Sturnus vulgaris</i> | * | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 14. | Northern Mockingbird <i>Mimus polyglottos</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 15. | Eastern Bluebird <i>Sialia sialis</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 16. | American Robin <i>Turdus migratorius</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 17. | Cedar Waxwing <i>Bombycilla cedrorum</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 18. | House Sparrow <i>Passer domesticus</i> | * | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 19. | House Finch <i>Haemorhous mexicanus</i> | * | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 20. | American Goldfinch <i>Spinus tristis</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 21. | White-throated Sparrow <i>Zonotrichia albicollis</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 22. | Eastern Towhee <i>Pipilo erythrophthalmus</i> | | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |

| | | | | | |
|-----|--|---|-------------|--------------|---|
| 23. | Red-winged Blackbird <i>Agelaius phoeniceus</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 24. | Common Grackle <i>Quiscalus quiscula</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 25. | Pine Warbler <i>Setophaga pinus</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 26. | Yellow-rumped Warbler <i>Setophaga coronata</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 27. | Northern Cardinal <i>Cardinalis cardinalis</i> | 1 | 24 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| 28. | Red-bellied Woodpecker <i>Melanerpes carolinus</i> | 1 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 29. | Downy Woodpecker <i>Dryobates pubescens</i> | 1 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 30. | Northern Flicker <i>Colaptes auratus</i> | 1 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 31. | American Crow <i>Corvus brachyrhynchos</i> | 7 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 32. | Golden-crowned Kinglet <i>Regulus satrapa</i> | 1 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 33. | Dark-eyed Junco <i>Junco hyemalis</i> | 1 | 24 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay- Varina US-NC 35.59040, -78.77243 |
| 34. | Red-breasted Nuthatch <i>Sitta canadensis</i> | 1 | 24 Oct 2024 | Brian O'Shea | 1605 Pineview |
| 35. | Song Sparrow <i>Melospiza melodia</i> | 1 | 24 Oct 2024 | Brian O'Shea | 1605 Pineview |
| 36. | Brown-headed Cowbird <i>Molothrus ater</i> | 1 | 24 Oct 2024 | Brian O'Shea | 1605 Pineview |
| 37. | Chipping Sparrow | 1 | 24 Oct 2024 | WS Barbour | Baird Drive* |



Spizella passerina






| | | | | | | |
|-----|---|---|-------------|---------------|---|---|
| 38. | Ruddy Duck <i>Oxyura jamaicensis</i> | 4 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 39. | Bald Eagle <i>Haliaeetus leucocephalus</i> | 1 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | ■ |
| 40. | Red-shouldered Hawk <i>Buteo lineatus</i> | 2 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 41. | Belted Kingfisher <i>Megaceryle alcyon</i> | 1 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 42. | Yellow-bellied Sapsucker <i>Sphyrapicus varius</i> | 2 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 43. | White-breasted Nuthatch <i>Sitta carolinensis</i> | 4 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 44. | Brown Thrasher <i>Toxostoma rufum</i> | 1 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 45. | Northern Parula <i>Setophaga americana</i> | 3 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 46. | Bay-breasted Warbler <i>Setophaga castanea</i> | 4 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 47. | Blackpoll Warbler <i>Setophaga striata</i> | 2 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 48. | Black-throated Blue Warbler <i>Setophaga caerulescens</i> | 2 | 24 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 49. | Brown Creeper <i>Certhia americana</i> | 1 | 24 Oct 2024 | Steven Vozzo | Merwin Rd, Raleigh US-NC 35.77338, -78.69981 | |
| 50. | Pine Siskin <i>Spinus pinus</i> | 1 | 24 Oct 2024 | Steven Vozzo | Merwin Rd, Raleigh US-NC 35.77338, -78.69981 | |
| 51. | Killdeer <i>Charadrius vociferus</i> | 1 | 24 Oct 2024 | John Polo | Near_the_house_Raleigh | ■ |
| 52. | Barred Owl <i>Strix varia</i> | 1 | 23 Oct 2024 | Olivia Gordon | Home | ■ |
| 53. | Cape May Warbler | 3 | 23 Oct 2024 | Jeff Beane | Prairie Ridge Ecostation for Wildlife Learning | |






Setophaga tigrina

| | | | | | |
|-----|---|----|-------------|-------------------|---|
| 54. | Turkey Vulture <i>Cathartes aura</i> | 1 | 23 Oct 2024 | T D Vuke | Lake Betz |
| 55. | Gray Catbird <i>Dumetella carolinensis</i> | 1 | 23 Oct 2024 | T D Vuke | Lake Betz |
| 56. | Swamp Sparrow <i>Melospiza georgiana</i> | 3 | 23 Oct 2024 | T D Vuke | Lake Betz |
| 57. | Hairy Woodpecker <i>Dryobates villosus</i> | 1 | 23 Oct 2024 | Brian Pendergraft | Brian P's Yard (Private) |
| 58. | Hermit Thrush <i>Catharus guttatus</i> | 1 | 23 Oct 2024 | Brian Pendergraft | Brian P's Yard (Private) |
| 59. | Cooper's Hawk <i>Astur cooperii</i> | 1 | 23 Oct 2024 | Gary Herritz | 8500 East Lake Court, Raleigh, North Carolina, US (35.898, -78.709) |
| 60. | Double-crested Cormorant <i>Nannopterum auritum</i> | 70 | 23 Oct 2024 | LEN OToole | Lake Crabtree Dam |
| 61. | Black Vulture <i>Coragyps atratus</i> | 2 | 23 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary |
| 62. | Pileated Woodpecker <i>Dryocopus pileatus</i> | 1 | 23 Oct 2024 | Jared Hollick | Backyard- Fuquay |
| 63. | Great Egret <i>Ardea alba</i> | 1 | 23 Oct 2024 | William Sheppard | Bond Park |
| 64. | Field Sparrow <i>Spizella pusilla</i> | 1 | 23 Oct 2024 | William Sheppard | Bond Park |
| 65. | Wilson's Snipe <i>Gallinago delicata</i> | 1 | 23 Oct 2024 | Kimberly Parsons | Lake Lynn |
| 66. | Blue-gray Gnatcatcher <i>Polioptila caerulea</i> | 1 | 23 Oct 2024 | Kimberly Parsons | Lake Lynn |
| 67. | Winter Wren <i>Troglodytes hiemalis</i> | 1 | 23 Oct 2024 | Kimberly Parsons | Lake Lynn |
| 68. | Magnolia Warbler <i>Setophaga magnolia</i> | 1 | 23 Oct 2024 | Kimberly Parsons | Lake Lynn |
| 69. | Palm Warbler | 1 | 23 Oct 2024 | Kimberly Parsons | Lake Lynn |







Setophaga palmarum

| | | | | | | |
|-----|---|------|-------------|-----------------|---|---|
| 70. | Rock Pigeon <i>Columba livia</i> | * 46 | 23 Oct 2024 | Phil Doerr | Yates Mill County Park |  |
| 71. | Northern House Wren <i>Troglodytes aedon</i> | 1 | 23 Oct 2024 | Phil Doerr | Yates Mill County Park | |
| 72. | Osprey <i>Pandion haliaetus</i> | 1 | 23 Oct 2024 | Niki Robertson | Lake Johnson Park | |
| 73. | Eastern Meadowlark <i>Sturnella magna</i> | 2 | 23 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 74. | Common Yellowthroat <i>Geothlypis trichas</i> | 1 | 23 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 75. | American Redstart <i>Setophaga ruticilla</i> | 1 | 23 Oct 2024 | Ann Stinely | Bond Park | |
| 76. | Northern Rough-winged Swallow <i>Stelgidopteryx serripennis</i> | 1 | 23 Oct 2024 | Anne Miller | 7601 Purfoy Rd, Fuquay-Varina US-NC 35.59034, -78.77243 | |
| 77. | Baltimore Oriole <i>Icterus galbula</i> | 1 | 22 Oct 2024 | B Steele | backyard | |
| 78. | Ovenbird <i>Seiurus aurocapilla</i> | 1 | 22 Oct 2024 | Scott Mullens | Walnut Ridge S/D |  |
| 79. | Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> | 2 | 22 Oct 2024 | Thomas Walencik | Neuse River Trail--Abbotts Creek | |
| 80. | White-crowned Sparrow <i>Zonotrichia leucophrys</i> | 1 | 22 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 81. | Orange-crowned Warbler <i>Leiothlypis celata</i> | 1 | 22 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 82. | Common Raven <i>Corvus corax</i> | 1 | 22 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 83. | American Coot <i>Fulica americana</i> | 2 | 22 Oct 2024 | WS Barbour | Bass Lake Park & Trail | |
| 84. | Pied-billed Grebe <i>Podilymbus podiceps</i> | 1 | 22 Oct 2024 | WS Barbour | Bass Lake Park & Trail | |







| | | | | | | |
|-----|---|----|-------------|------------------|--|---|
| 85. | Tennessee Warbler <i>Leiothlypis peregrina</i> | 1 | 22 Oct 2024 | Debbie Kosater | Prairie Ridge Ecostation for Wildlife Learning | |
| 86. | Red-tailed Hawk <i>Buteo jamaicensis</i> | X | 22 Oct 2024 | Joette Steger | 104 Bishop Ct Cary NC USA |  |
| 87. | Savannah Sparrow <i>Passerculus sandwichensis</i> | 6 | 22 Oct 2024 | Phil Doerr | Yates Mill County Park | |
| 88. | Horned Lark <i>Eremophila alpestris</i> | 10 | 22 Oct 2024 | Quentin Read | Mid Pines Rd. | |
| 89. | American Pipit <i>Anthus rubescens</i> | 5 | 22 Oct 2024 | Quentin Read | Mid Pines Rd. | |
| 90. | American Kestrel <i>Falco sparverius</i> | 1 | 22 Oct 2024 | Nicole Stewart | Barksdale Drive Greenway | |
| 91. | Wood Duck <i>Aix sponsa</i> | 3 | 21 Oct 2024 | anthony ammirati | home | |
| 92. | Ruby-throated Hummingbird <i>Archilochus colubris</i> | 1 | 21 Oct 2024 | Eddie Owens | Eddie's Backyard |  |
| 93. | Yellow Warbler <i>Setophaga petechia</i> | 1 | 21 Oct 2024 | LEN OToole | Lake Crabtree Dam |  |
| 94. | Sharp-shinned Hawk <i>Accipiter striatus</i> | 1 | 21 Oct 2024 | Wesley Riffle | Apex Community Park, Apex US-NC (35.7480,-78.8199) | |
| 95. | Black-and-white Warbler <i>Mniotilta varia</i> | 1 | 21 Oct 2024 | Stuart Robertson | Lake Johnson Park | |
| 96. | Nashville Warbler <i>Leiothlypis ruficapilla</i> | 1 | 21 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary | |
| 97. | Yellow-billed Cuckoo <i>Coccyzus americanus</i> | 1 | 21 Oct 2024 | Jean Ells | Lake Lynn | |
| 98. | Broad-winged Hawk <i>Buteo platypterus</i> | 1 | 21 Oct 2024 | Jean Ells | Lake Lynn | |
| 99. | Green-winged Teal <i>Anas crecca</i> | 1 | 21 Oct 2024 | Deborah Woody | Lake Betz |   |











| | | | | | | |
|------|--|---|-------------|-------------------|---|---|
| 100. | Purple Finch <i>Haemorhous purpureus</i> | 2 | 21 Oct 2024 | Patty McQuillan | Mid Pines Rd. | |
| 101. | Swainson's Thrush <i>Catharus ustulatus</i> | 1 | 20 Oct 2024 | Matt Estes | Jaycee Park | |
| 102. | Chimney Swift <i>Chaetura pelagica</i> | 1 | 20 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 103. | Tree Swallow <i>Tachycineta bicolor</i> | 1 | 20 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 104. | Eastern Wood-Pewee <i>Contopus virens</i> | 1 | 20 Oct 2024 | LEN OToole | Lake Crabtree Dam | |
| 105. | Yellow-throated Vireo <i>Vireo flavifrons</i> | 1 | 20 Oct 2024 | Jeremy Wrenn | Old Bayleaf Rd (foot access only) |  |
| 106. | Rusty Blackbird <i>Euphagus carolinus</i> | 1 | 20 Oct 2024 | Eddie Owens | Bond Park |   |
| 107. | Blue-headed Vireo <i>Vireo solitarius</i> | 1 | 20 Oct 2024 | Julian Monsalve | Crabtree Creek Wetland-- West of Raleigh Blvd. | |
| 108. | Red-eyed Vireo <i>Vireo olivaceus</i> | 1 | 20 Oct 2024 | Julian Monsalve | Crabtree Creek Wetland-- West of Raleigh Blvd. | |
| 109. | Blue Grosbeak <i>Passerina caerulea</i> | 1 | 20 Oct 2024 | Julian Monsalve | Crabtree Creek Wetland-- West of Raleigh Blvd. | |
| 110. | White-eyed Vireo <i>Vireo griseus</i> | 1 | 20 Oct 2024 | Nicole Stewart | Crabtree Creek Wetland-- West of Raleigh Blvd. | |
| 111. | Northern Shoveler <i>Spatula clypeata</i> | 1 | 20 Oct 2024 | Davon Bruno | Sunset Lake (private) |  |
| 112. | Least Sandpiper <i>Calidris minutilla</i> | 1 | 20 Oct 2024 | Davon Bruno | Sunset Lake (private) | |
| 113. | Black-throated Green Warbler <i>Setophaga virens</i> | 1 | 20 Oct 2024 | Eddie Owens | Nelson Road, Brier Creek pulloff (35.884, -78.807) | |
| 114. | Blackburnian Warbler <i>Setophaga fusca</i> | 1 | 20 Oct 2024 | LynnErla Beegle | Lake Lynn |  |
| 115. | Wood Thrush | 1 | 20 Oct 2024 | Brian Pendergraft | Brian P's Yard (Private) | |

Hylocichla mustelina

| | | | | | | |
|------|---|---|-------------|---------------------|---|---|
| 116. | Rose-breasted Grosbeak <i>Pheucticus ludovicianus</i> | 1 | 19 Oct 2024 | Niki Robertson | Lake Johnson Park | |
| 117. | Northern Waterthrush <i>Parkesia noveboracensis</i> | 1 | 19 Oct 2024 | Hannah Tuson | Cisco parking lot and lakeside |  |
| 118. | Peregrine Falcon <i>Falco peregrinus</i> | 1 | 19 Oct 2024 | Dale Lambert | Loch Lomond, Lochmere, Cary |  |
| 119. | Scarlet Tanager <i>Piranga olivacea</i> | 1 | 19 Oct 2024 | Harry LeGrand | Mid Pines Rd. |  |
| 120. | Gray-cheeked Thrush <i>Catharus minimus</i> | 1 | 19 Oct 2024 | Mark Hammond | Carpenter Village |  |
| 121. | Indigo Bunting <i>Passerina cyanea</i> | 1 | 19 Oct 2024 | Mary Abrams | Mid Pines Rd. | |
| 122. | Wild Turkey <i>Meleagris gallopavo</i> | 1 | 19 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 123. | Vesper Sparrow <i>Pooecetes gramineus</i> | 1 | 18 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 124. | Great Horned Owl <i>Bubo virginianus</i> | 1 | 18 Oct 2024 | Christopher Moorman | New Hill, North Carolina, US (35.688, -78.966) | |
| 125. | American Woodcock <i>Scolopax minor</i> | 1 | 17 Oct 2024 | Harry LeGrand | Mid Pines Rd. |  |
| 126. | Merlin <i>Falco columbarius</i> | 1 | 16 Oct 2024 | Bill Sharkey | Prestonwood Country Club, Cary US-NC 35.79683, -78.83797 | |
| 127. | Chestnut-sided Warbler <i>Setophaga pensylvanica</i> | 1 | 16 Oct 2024 | Michael Fogleman | Bond Park | |
| 128. | Hooded Warbler <i>Setophaga citrina</i> | 1 | 16 Oct 2024 | Sheri Thompson | Lake Lynn |   |
| 129. | Philadelphia Vireo <i>Vireo philadelphicus</i> | 1 | 14 Oct 2024 | Kyle Smith | Lake Lynn |  |
| 130. | Yellow-throated Warbler <i>Setophaga dominica</i> | 1 | 13 Oct 2024 | Ram K | Lake Lynn | |

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|------|---|---|-------------|--------------------|---|---|
| 131. | Blue-winged Teal <i>Spatula discors</i> | 2 | 13 Oct 2024 | Michelle Forte | Schenck Forest |   |
| 132. | Northern Harrier <i>Circus hudsonius</i> | 1 | 12 Oct 2024 | Anonymous eBirder | North Carolina State University Campus | |
| 133. | Marsh Wren <i>Cistothorus palustris</i> | 1 | 12 Oct 2024 | Garrett Holt | Prairie Ridge Ecostation for Wildlife Learning | |
| 134. | Barn Swallow <i>Hirundo rustica</i> | 2 | 12 Oct 2024 | LEN OToole | Lake Crabtree Dam | |
| 135. | Summer Tanager <i>Piranga rubra</i> | 1 | 11 Oct 2024 | Marilyn Diaz | Yates Mill County Park | |
| 136. | Green Heron <i>Butorides virescens</i> | 1 | 10 Oct 2024 | Caleb Bronsink | Mid Pines Rd. | |
| 137. | Common Nighthawk <i>Chordeiles minor</i> | 2 | 8 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 138. | Worm-eating Warbler <i>Helmitheros vermivorum</i> | 1 | 8 Oct 2024 | Steven Vozzo | Lake Lynn | |
| 139. | Dickcissel <i>Spiza americana</i> | 1 | 8 Oct 2024 | Marc Ribaudou | Neuse River Trail--Anderson Point Park |  |
| 140. | Prairie Warbler <i>Setophaga discolor</i> | 1 | 7 Oct 2024 | Adam Prince | Yates Mill County Park | |
| 141. | Bobolink <i>Dolichonyx oryzivorus</i> | 2 | 7 Oct 2024 | Harry LeGrand | North Carolina Museum of Art--Sculpture Garden | |
| 142. | Eastern Screech-Owl <i>Megascops asio</i> | 1 | 7 Oct 2024 | Ron Martin | Bass Lake Park & Trail | |
| 143. | Acadian Flycatcher <i>Empidonax virescens</i> | 2 | 7 Oct 2024 | Madeline Wainscott | Lake Lynn | |
| 144. | Grasshopper Sparrow <i>Ammodramus savannarum</i> | 1 | 7 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 145. | Blue-winged Warbler <i>Vermivora cyanoptera</i> | 1 | 6 Oct 2024 | Madeline Wainscott | William B. Umstead SP--Graylyn Trail | |
| 146. | Virginia Rail <i>Rallus limicola</i> | 1 | 5 Oct 2024 | Ed Corey | Lake Lynn |   |
















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|------|--|---|-------------|-----------------|---|---|
| 147. | Great Crested Flycatcher <i>Myiarchus crinitus</i> | 1 | 5 Oct 2024 | Clyde Wilson | All Saints Orthodox Church, 520 Buck Jones Road, Raleigh NC |  |
| 148. | Solitary Sandpiper <i>Tringa solitaria</i> | 1 | 5 Oct 2024 | John Polo | Lake Lynn | |
| 149. | Veery <i>Catharus fuscescens</i> | 1 | 5 Oct 2024 | Michelle Forte | Schenck Forest | |
| 150. | Greater Yellowlegs <i>Tringa melanoleuca</i> | 1 | 2 Oct 2024 | Mitchell Dart | William B. Umstead SP--Big Lake |  |
| 151. | Snowy Egret <i>Egretta thula</i> | 1 | 30 Sep 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 152. | Anhinga <i>Anhinga anhinga</i> | 1 | 30 Sep 2024 | Corie Latta | Lake Lynn | |
| 153. | Loggerhead Shrike <i>Lanius ludovicianus</i> | 1 | 30 Sep 2024 | Marc Ribaud | 1835 Bud Lipscomb Rd, Willow Spring US-NC 35.55639, -78.71672 | |
| 154. | Spotted Sandpiper <i>Actitis macularius</i> | 1 | 29 Sep 2024 | Neon Moody | Falls Lake SRA--Woodpecker Ridge | |
| 155. | Purple Martin <i>Progne subis</i> | 1 | 29 Sep 2024 | Tony Hewitt | stakeout Varied Thrush, Cary (2020) |   |
| 156. | Rufous Hummingbird <i>Selasphorus rufus</i> | 1 | 28 Sep 2024 | Kevin Markham | Yates Mill County Park |  |
| 157. | Least Flycatcher <i>Empidonax minimus</i> | 1 | 27 Sep 2024 | Mark Hammond | Lake Lynn |  |
| 158. | White Ibis <i>Eudocimus albus</i> | 1 | 27 Sep 2024 | Rebekah Wofford | Green Hills County Park (Formerly North Wake Landfill/Park) |  |
| 159. | Golden-winged Warbler <i>Vermivora chrysoptera</i> | 1 | 26 Sep 2024 | WS Barbour | Lake Lynn |  |
| 160. | Prothonotary Warbler <i>Protonotaria citrea</i> | 1 | 25 Sep 2024 | Diane van Dijk | Lake Lynn |  |
| 161. | Sedge Wren <i>Cistothorus stellaris</i> | 1 | 24 Sep 2024 | Adam Prince | Yates Mill County Park |   |
| 162. | Eastern Kingbird <i>Tyrannus tyrannus</i> | 2 | 23 Sep 2024 | Mark Hammond | Fujifilm site, Holly Springs |  |

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|------|---|---|-------------|------------------|--|---|
| 163. | Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> | 1 | 23 Sep 2024 | Michael Bowen | Shelley Lake |   |
| 164. | Yellow-bellied Flycatcher <i>Empidonax flaviventris</i> | 1 | 23 Sep 2024 | Sally Siko | Lake Lynn |   |
| 165. | Yellow-breasted Chat <i>Icteria virens</i> | 1 | 22 Sep 2024 | anthony ammirati | home | |
| 166. | Caspian Tern <i>Hydroprogne caspia</i> | 2 | 22 Sep 2024 | Ron Martin | Harris Game Land--Upper Boat Ramp | |
| 167. | Little Blue Heron <i>Egretta caerulea</i> | 1 | 21 Sep 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 168. | Sora <i>Porzana carolina</i> | 1 | 19 Sep 2024 | Ron Martin | American Tobacco Trail--Olive Chapel Road Access | |
| 169. | Forster's Tern <i>Sterna forsteri</i> | 3 | 17 Sep 2024 | LEN OToole | Lake Crabtree Dam | |
| 170. | Pectoral Sandpiper <i>Calidris melanotos</i> | 1 | 17 Sep 2024 | Kevin Markham | Lake Crabtree County Park | |
| 171. | Black Tern <i>Chlidonias niger</i> | 2 | 17 Sep 2024 | Kevin Markham | Lake Crabtree County Park | |
| 172. | Common Tern <i>Sterna hirundo</i> | 5 | 17 Sep 2024 | Kevin Markham | Lake Crabtree County Park | |
| 173. | Semipalmated Plover <i>Charadrius semipalmatus</i> | 1 | 13 Sep 2024 | LEN OToole | Lake Crabtree Dam | |
| 174. | Orchard Oriole <i>Icterus spurius</i> | 1 | 11 Sep 2024 | Marilyn Diaz | 229 Purple Leaf Road, Fuquay-Varina, North Carolina, US (35.585, -78.76) |   |
| 175. | Warbling Vireo <i>Vireo gilvus</i> | 1 | 5 Sep 2024 | Marc Ribaud | Neuse River Trail--Anderson Point Park |  |
| 176. | Tricolored Heron <i>Egretta tricolor</i> | 2 | 2 Sep 2024 | Emily Denker | Lake Crabtree County Park |   |
| 177. | Northern Bobwhite <i>Colinus virginianus</i> | 8 | 1 Sep 2024 | Mike Lowe | 8025 Fowler Road, Zebulon, North Carolina, US (35.884, -78.386) | |
| 178. | Sanderling <i>Calidris alba</i> | 1 | 31 Aug 2024 | Karen Szafrajda | Lake Crabtree Dam |  |


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|------|---|---|-------------|----------------------|---|
| 179. | Lesser Yellowlegs <i>Tringa flavipes</i> | 1 | 30 Aug 2024 | Michelle Forte | Lake Crabtree Nature Trail-- Southport Entrance |
| 180. | Semipalmated Sandpiper <i>Calidris pusilla</i> | 1 | 30 Aug 2024 | Michelle Forte | Lake Crabtree Nature Trail-- Southport Entrance |
| 181. | Bank Swallow <i>Riparia riparia</i> | 4 | 30 Aug 2024 | Tony Hewitt | stakeout Varied Thrush, Cary (2020)   |
| 182. | Louisiana Waterthrush <i>Parkesia motacilla</i> | 1 | 30 Aug 2024 | WS Barbour | Lake Crabtree Nature Trail-- Southport Entrance |
| 183. | Kentucky Warbler <i>Geothlypis formosa</i> | 1 | 28 Aug 2024 | Scott Mullens | Company Mill Trail, William B. Umstead State Park  |
| 184. | Cerulean Warbler <i>Setophaga cerulea</i> | 1 | 22 Aug 2024 | Tony Hewitt | stakeout Varied Thrush, Cary (2020)   |
| 185. | Mississippi Kite <i>Ictinia mississippiensis</i> | 1 | 20 Aug 2024 | Kevin Durso | 3904 Arrow Dr, Raleigh US-NC 35.83477, -78.67324 |
| 186. | Cliff Swallow <i>Petrochelidon pyrrhonota</i> | 1 | 14 Aug 2024 | LynnErla Beegle | Horseshoe Farm Nature Preserve |
| 187. | Western Cattle-Egret <i>Ardea ibis</i> | 1 | 12 Aug 2024 | Mark Kamprath | Yates Mill County Park   |
| 188. | Laughing Gull <i>Leucophaeus atricilla</i> | 1 | 10 Aug 2024 | Mitchell Dart | Falls Lake--Sandling Beach  |
| 189. | Chuck-will's-widow <i>Antrastomus carolinensis</i> | 1 | 27 Jul 2024 | Andrew Thornton | 1721 Berwickshire Circle, Raleigh, North Carolina, US (35.897, -78.609)  |
| 190. | Painted Bunting <i>Passerina ciris</i> | 1 | 24 Jul 2024 | Sara Gravatt-Wimsatt | Dorothea Dix Park   |
| 191. | American Black Duck <i>Anas rubripes</i> | 1 | 17 Jul 2024 | Ron Martin | Lake Wheeler marshes  |
| 192. | Short-billed Dowitcher <i>Limnodromus griseus</i> | 1 | 13 Jul 2024 | Race Bannon | Centennial Park   |
| 193. | Eastern Whip-poor-will <i>Antrastomus vociferus</i> | 2 | 29 Jun 2024 | Kevin Markham | Bartley-Holleman Road at Transmission Line |
| 194. | Black-crowned Night Heron | 1 | 17 Jun 2024 | Christopher Moxley | 27603, Raleigh US-NC (35.7321,-78.6848)  |

Nycticorax nycticorax

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|------|---|---|-------------|--|---|---|
| 195. | Swainson's Warbler <i>Limnothlypis swainsonii</i> | 1 | 15 Jun 2024 | Eric DeFonso  | Neuse River Trail--Mial Plantation Road |   |
| 196. | Willow Flycatcher <i>Empidonax traillii</i> | 1 | 13 Jun 2024 | Christopher Moxley | Fred Fletcher Park |   |
| 197. | Hooded Merganser <i>Lophodytes cucullatus</i> | 3 | 12 Jun 2024 | Mark Hammond | 921 Village View Ln, Cary US-NC 35.82837, -78.85799 |  |
| 198. | Common Loon <i>Gavia immer</i> | 1 | 26 May 2024 | Heather Mayer | Harris Lake County Park | |
| 199. | Canada Warbler <i>Cardellina canadensis</i> | 1 | 16 May 2024 | Steven Vozzo | Macedonia Lake/Speight Branch Greenway |  |
| 200. | Horned Grebe <i>Podiceps auritus</i> | 1 | 15 May 2024 | Davon Bruno | Sunset Lake (private) |  |
| 201. | Gadwall <i>Mareca strepera</i> | 1 | 13 May 2024 | Peggy Livingston | Crabtree Creek Wetland-- West of Raleigh Blvd. |  |
| 202. | Wilson's Warbler <i>Cardellina pusilla</i> | 1 | 13 May 2024 | Mary Abrams | Macedonia Lake/Speight Branch Greenway |  |
| 203. | Lesser Scaup <i>Aythya affinis</i> | 1 | 13 May 2024 | Isaac Smith | Yates Mill County Park |   |
| 204. | Ring-billed Gull <i>Larus delawarensis</i> | 1 | 11 May 2024 | Mike Turner | Harris Game Land--Upper Boat Ramp | |
| 205. | Red-breasted Merganser <i>Mergus serrator</i> | 1 | 6 May 2024 | Davon Bruno | Sunset Lake (private) |  |
| 206. | Black-bellied Plover <i>Pluvialis squatarola</i> | 1 | 5 May 2024 | Ron Martin | Lake Crabtree Nature Trail-- Southport Entrance |  |
| 207. | American Herring Gull <i>Larus smithsonianus</i> | 3 | 5 May 2024 | Quentin Read | Lake Crabtree Nature Trail-- Southport Entrance |  |
| 208. | Glossy Ibis <i>Plegadis falcinellus</i> | 2 | 4 May 2024 | Nicole Stewart | Crabtree Creek Wetland-- West of Raleigh Blvd. |  |
| 209. | Lincoln's Sparrow <i>Melospiza lincolni</i> | 1 | 27 Apr 2024 | Ron Martin | Mid Pines Rd. |  |
| 210. | Clay-colored Sparrow <i>Spizella pallida</i> | 1 | 26 Apr 2024 | Quentin Read | Dorothea Dix Park |  |






















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|------|---|---|-------------|-----------------|---|---|
| 211. | Lesser Black-backed Gull <i>Larus fuscus</i> | 2 | 19 Apr 2024 | Quentin Read | South Wake County Landfill (Restricted Access) |  |
| 212. | Bonaparte's Gull <i>Chroicocephalus philadelphia</i> | 1 | 18 Apr 2024 | Debbie Kosater | Harris Game Land--Upper Boat Ramp | |
| 213. | American Bittern <i>Botaurus lentiginosus</i> | 1 | 16 Apr 2024 | Ryan Justice | Crabtree Creek Wetland--West of Raleigh Blvd. | |
| 214. | Ring-necked Duck <i>Aythya collaris</i> | 1 | 16 Apr 2024 | Chip Davis | Bond Park |   |
| 215. | Fox Sparrow <i>Passerella iliaca</i> | 1 | 16 Apr 2024 | Phil Doerr | Yates Mill County Park |  |
| 216. | Bufflehead <i>Bucephala albeola</i> | 2 | 8 Apr 2024 | Phil Doerr | Yates Mill County Park | |
| 217. | American Wigeon <i>Mareca americana</i> | 4 | 28 Mar 2024 | Kevin Markham | Lake Crabtree County Park | |
| 218. | Bullock's Oriole <i>Icterus bullockii</i> | 1 | 27 Mar 2024 | Patricia Kitto | 1628 Old Honeycutt Road, Fuquay Varina, NC |   |
| 219. | Greater Scaup <i>Aythya marila</i> | 1 | 23 Mar 2024 | Marc Ribaudo | Lake Benson |  |
| 220. | Northern Pintail <i>Anas acuta</i> | 1 | 4 Mar 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| 221. | Redhead <i>Aythya americana</i> | 3 | 1 Mar 2024 | Eddie Owens | Lake Crabtree Nature Trail--Southport Entrance |  |
| 222. | American White Pelican <i>Pelecanus erythrorhynchos</i> | 3 | 23 Feb 2024 | Susan Jones | Lake Crabtree County Park |  |
| 223. | Canvasback <i>Aythya valisineria</i> | 2 | 20 Feb 2024 | Verl Dennis | Lake MORTENSEN | |
| 224. | Ross's Goose <i>Anser rossii</i> | 2 | 14 Feb 2024 | Ram K | Mid Pines Rd. |  |
| 225. | Great Black-backed Gull <i>Larus marinus</i> | 1 | 4 Feb 2024 | Tony Hewitt | stakeout Varied Thrush, Cary (2020) |   |
| 226. | Western Tanager <i>Piranga ludoviciana</i> | 1 | 31 Jan 2024 | Chelsea Wilberg | Home |   |
| 227. | Sandhill Crane | 2 | 3 Jan 2024 | Steven Vozzo | Mid Pines Rd. |   |






















Antigone canadensis

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| 228. | Lapland Longspur <i>Calcarius lapponicus</i> | 1 | 16 Dec 2023 | Steven Vozzo | Mid Pines Rd. |  |
| 229. | Black-legged Kittiwake <i>Rissa tridactyla</i> | 1 | 26 Nov 2023 | LynnErla Beegle | Falls Lake--Beaverdam Reservoir |  |
| 230. | Surf Scoter <i>Melanitta perspicillata</i> | 4 | 21 Nov 2023 | John Lynch | Falls Lake--Sandling Beach |  |
| 231. | Red-throated Loon <i>Gavia stellata</i> | 1 | 19 Nov 2023 | Ron Martin | Falls Lake--Sandling Beach |  |
| 232. | Black Scoter <i>Melanitta americana</i> | 1 | 19 Nov 2023 | Ron Martin | Falls Lake, Rolling View, Wake waters. |  |
| 233. | Ash-throated Flycatcher <i>Myiarchus cinerascens</i> | 1 | 12 Nov 2023 | Jeremy Wrenn | Mid Pines Rd. |   |
| 234. | Dunlin <i>Calidris alpina</i> | 5 | 12 Nov 2023 | Eddie Owens | 3425-3337 Old Weaver Trail, Creedmoor, North Carolina, US (36.075, -78.71) |  |
| 235. | Nelson's Sparrow <i>Ammospiza nelsoni</i> | 1 | 4 Nov 2023 | Kathy Julian | Lake Crabtree County Park |   |
| 236. | Arctic Tern <i>Sterna paradisaea</i> | 1 | 31 Oct 2023 | Ed Corey | Lake Crabtree County Park |  |
| 237. | Alder Flycatcher <i>Empidonax alnorum</i> | 1 | 11 Oct 2023 | Caleb Bronsink | Rocky Branch Greenway |  |
| 238. | Western Kingbird <i>Tyrannus verticalis</i> | 1 | 29 Sep 2023 | Corie Latta | Mid Pines Rd. |  |
| 239. | Wood Stork <i>Mycteria americana</i> | 1 | 6 Sep 2023 | Hal Marcus | Shelley Lake | |
| 240. | Stilt Sandpiper <i>Calidris himantopus</i> | 1 | 2 Sep 2023 | Fleeta Chauvigne | Lake Wheeler marshes | |
| 241. | Baird's Sandpiper <i>Calidris bairdii</i> | 1 | 2 Sep 2023 | Dana Miller | Lake Crabtree Nature Trail--Southport Entrance |  |
| 242. | Roseate Spoonbill <i>Platalea ajaja</i> | 1 | 31 Aug 2023 | Sheri Thompson | Lake Lynn |   |

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|------|---|---|-------------|-----------------|--|---|
| 243. | White-rumped Sandpiper <i>Calidris fuscicollis</i> | 1 | 31 Aug 2023 | robert lethco | Lake Crabtree Nature Trail-- Southport Entrance |  |
| 244. | Western Sandpiper <i>Calidris mauri</i> | 1 | 31 Aug 2023 | Marc Ribaudou | Lake Crabtree Nature Trail--Southport Entrance |   |
| 245. | Lark Sparrow <i>Chondestes grammacus</i> | 1 | 15 Aug 2023 | robert lethco | Dorothea Dix Park |  |
| 246. | Upland Sandpiper <i>Bartramia longicauda</i> | 1 | 9 Aug 2023 | Ron Martin | Mid Pines Rd. |  |
| 247. | Swallow-tailed Kite <i>Elanoides forficatus</i> | 1 | 6 Aug 2023 | Scott Mullens | Mid Pines Rd. |  |
| 248. | Yellow-crowned Night Heron <i>Nyctanassa violacea</i> | 1 | 30 Jul 2023 | Sujata roy | lake betz |   |
| 249. | American Avocet <i>Recurvirostra americana</i> | 1 | 21 Jul 2023 | John Lynch | Falls Lake--Sandling Beach |  |
| 250. | Scissor-tailed Flycatcher <i>Tyrannus forficatus</i> | 1 | 2 Apr 2023 | Susan Pratt | Falls Lake--Olive Grove Church Rd. Ramp |  |
| 251. | Red-footed Booby <i>Sula sula</i> | 1 | 3 Mar 2023 | Mia Burroughs | Yates Mill County Park |  |
| 252. | White-winged Scoter <i>Melanitta deglandi</i> | 1 | 15 Feb 2023 | Ann Stinely | Lake Raleigh |  |
| 253. | Long-tailed Duck <i>Clangula hyemalis</i> | 3 | 4 Feb 2023 | LEN OToole | Lake Crabtree County Park |  |
| 254. | Evening Grosbeak <i>Coccothraustes vespertinus</i> | 1 | 4 Jan 2023 | Brian Bockhahn | Boyce Bridge Rd |  |
| 255. | Common Merganser <i>Mergus merganser</i> | 1 | 4 Jan 2023 | Brian Bockhahn | Falls Lake--Sandling Beach |   |
| 256. | Snow Goose <i>Anser caerulescens</i> | 1 | 25 Nov 2022 | Dale Lambert | Loch Lomond, Lochmere, Cary |   |
| 257. | American Golden-Plover <i>Pluvialis dominica</i> | 1 | 6 Nov 2022 | Eddie Owens | Falls Lake--Olive Grove Church Rd. |   |
| 258. | Red-necked Grebe | 2 | 5 Nov 2022 | Natalie Barbour | Harris Game Land-- Upper Boat Ramp |   |

Podiceps grisegena

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|------|--|---|-------------|-----------------------|---|---|
| 259. | King Rail <i>Rallus elegans</i> | 1 | 1 Nov 2022 | Trenton Voytko | American Tobacco Trail-- New Hill-Olive Chapel Road Access |  |
| 260. | Black Skimmer <i>Rynchops niger</i> | 1 | 1 Oct 2022 | Sujata roy | Lake Crabtree County Park |   |
| 261. | Fork-tailed Flycatcher <i>Tyrannus savana</i> | 1 | 1 Oct 2022 | LEN OToole | Lake Crabtree Dam |   |
| 262. | Common Gallinule <i>Gallinula galeata</i> | 1 | 15 Sep 2022 | Mark DiGiovanni | Lake Betz |  |
| 263. | Long-billed Dowitcher <i>Limnodromus scolopaceus</i> | 1 | 11 Sep 2022 | Eddie Owens | Lake Crabtree Nature Trail--Southport Entrance |   |
| 264. | Brown Pelican <i>Pelecanus occidentalis</i> | 1 | 7 Sep 2022 | Geneva Pigott | Lake Wheeler marshes |  |
| 265. | Least Bittern <i>Botaurus exilis</i> | 1 | 1 Sep 2022 | Adam Prince | American Tobacco Trail-- New Hill-Olive Chapel Road Access |  |
| 266. | Marbled Godwit <i>Limosa fedoa</i> | 1 | 20 Aug 2022 | Mel Green | Lake Crabtree Nature Trail--Southport Entrance |   |
| 267. | Tundra Swan <i>Cygnus columbianus</i> | 1 | 6 Mar 2022 | Rachel Serrano | Lake Crabtree Nature Trail--Southport Entrance |   |
| 268. | Yellow-headed Blackbird <i>Xanthocephalus xanthocephalus</i> | 1 | 21 Feb 2022 | Kyra Bartow | Howling Cow Creamery |  |
| 269. | Black-chinned Hummingbird <i>Archilochus alexandri</i> | 1 | 21 Feb 2022 | Matt Spangler | Ten Ten/ Lake Wheeler Road area (approx location) |   |
| 270. | Common Goldeneye <i>Bucephala clangula</i> | 2 | 31 Jan 2022 | Martina Nordstrand | Brier Creek Reservoir |  |
| 271. | Greater White-fronted Goose <i>Anser albifrons</i> | 1 | 21 Dec 2021 | Geneva Pigott | 101 Plantation Center Drive, Raleigh, North Carolina, US (35.873, -78.583) |  |
| 272. | Clapper Rail <i>Rallus crepitans</i> | 1 | 20 Sep 2021 | Duncan Fraser | Apex Costco |   |











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| 273. | Red-necked Phalarope <i>Phalaropus lobatus</i> | 1 | 17 Aug 2021 | Anne Miller | Lake Benson Park, Garner US-NC 35.67360, -78.62832 |  |
| 274. | Black-bellied Whistling-Duck <i>Dendrocygna autumnalis</i> | 5 | 4 Jun 2021 | Isaac Ennis | 1095 Ambergate Station Pond (35.742132, -78.845350) |   |
| 275. | Olive-sided Flycatcher <i>Contopus cooperi</i> | 1 | 15 May 2021 | Scott Mullens | Beaver Creek Greenway |  |
| 276. | Varied Thrush <i>Ixoreus naevius</i> | 1 | 27 Mar 2021 | Deborah Kidd | stakeout Varied Thrush, Cary (2020) |  |
| 277. | Red Crossbill <i>Loxia curvirostra</i> | 1 | 24 Mar 2021 | Thomas Walencik | Neuse River Trail--Abbotts Creek |  |
| 278. | Black-headed Gull <i>Chroicocephalus ridibundus</i> | 1 | 20 Mar 2021 | Ted Meyer | Harris Game Land--Upper Boat Ramp |  |
| 279. | White-winged Crossbill <i>Loxia leucoptera</i> | 1 | 29 Nov 2020 | Ed Corey | Falls Lake |  |
| 280. | Willet <i>Tringa semipalmata</i> | 1 | 16 Aug 2020 | Mel Green | Lake Crabtree Dam |   |
| 281. | Royal Tern <i>Thalasseus maximus</i> | 1 | 4 Aug 2020 | David Fischer | Harris Game Land--Upper Boat Ramp |  |
| 282. | Whimbrel <i>Numenius phaeopus</i> | 1 | 22 May 2020 | Edde Burgess | Lake Crabtree County Park, Cary US-NC 35.84222, -78.79613 |   |
| 283. | Iceland Gull <i>Larus glaucooides</i> | 1 | 24 Jan 2020 | Sam Flake | South Wake County Landfill (Restricted Access) |   |
| 284. | Red Phalarope <i>Phalaropus fulicarius</i> | 1 | 3 Jan 2020 | Eddie Owens | Harris Game Land-- Upper Boat Ramp |   |
| 285. | Brant <i>Branta bernicla</i> | 1 | 8 Dec 2019 | Harry LeGrand | Lake Lynn |  |
| 286. | Sandwich Tern <i>Thalasseus sandvicensis</i> | 1 | 8 Sep 2019 | Dale Lambert | Lake Crabtree Nature Trail-- Southport Entrance |  |
| 287. | Sooty Tern <i>Onychoprion fuscatus</i> | 1 | 6 Sep 2019 | Brian Bockhahn | Falls Lake--Sandling Beach |  |
| 288. | | * 1 | 16 Jun 2019 | Dale Lambert | Sunset Lake Rd (35.625565, -78.776945) |  |

Eurasian Collared-Dove

Streptopelia decaocto

| | | | | | | |
|------|---|----|-------------|-------------------|--|---|
| 289. | Sabine's Gull <i>Xema sabini</i> | 1 | 18 Sep 2018 | Bruce Young | Falls lake wake county |  |
| 290. | Least Tern <i>Sternula antillarum</i> | 1 | 17 Sep 2018 | Jean Ells | Harris Game Land--Upper Boat Ramp |  |
| 291. | Wilson's Phalarope <i>Phalaropus tricolor</i> | 1 | 15 Sep 2018 | Edward Landi | Lake Wheeler marshes |  |
| 292. | Connecticut Warbler <i>Oporornis agilis</i> | 1 | 9 Sep 2018 | Sam Jolly | Prairie Ridge Ecostation for Wildlife Learning |  |
| 293. | Trumpeter Swan <i>Cygnus buccinator</i> | 2 | 19 Apr 2018 | Sahas Panda | Lake Betz |   |
| 294. | Mourning Warbler <i>Geothlypis philadelphia</i> | 1 | 23 Sep 2017 | Geneva Pigott | William B. Umstead SP--Big Lake |  |
| 295. | Hudsonian Godwit <i>Limosa haemastica</i> | 11 | 12 Sep 2017 | WS Barbour | Lake Wheeler marshes |  |
| 296. | Black-necked Stilt <i>Himantopus mexicanus</i> | 1 | 13 May 2017 | WS Barbour | Lake Wheeler marshes |   |
| 297. | Glaucous Gull <i>Larus hyperboreus</i> | 1 | 6 Feb 2016 | Lucas Bobay | South Wake County Landfill (Restricted Access) |   |
| 298. | Gray Kingbird <i>Tyrannus dominicensis</i> | 1 | 3 Oct 2015 | Lucas Bobay | NCSU Agroecology Farm |   |
| 299. | Piping Plover <i>Charadrius melodus</i> | 1 | 14 May 2015 | Thierry Besancon | Lake Crabtree County Park |  |
| 300. | Ruddy Turnstone <i>Arenaria interpres</i> | 1 | 11 May 2015 | Eddie Owens | Lake Crabtree County Park |  |
| 301. | Snowy Owl <i>Bubo scandiacus</i> | 1 | 2 Dec 2013 | CBC Historic Data | Raleigh WTP |   |
| 302. | California Gull <i>Larus californicus</i> | 1 | 27 Apr 2013 | Thierry Besancon | Lake Crabtree County Park |  |
| 303. | Redpoll <i>Acanthis flammea</i> | 1 | 16 Mar 2013 | Becky Bateman | Falls Lake - Residence |  |
| 304. | Parasitic Jaeger | 1 | 11 Sep 2011 | Thierry Besancon | Falls Lake--Sandling Beach |  |

Stercorarius parasiticus

| | | | | | | |
|------|---|---|-------------|-------------------|--|---|
| 305. | Bell's Vireo <i>Vireo bellii</i> | 1 | 12 Oct 2010 | CBC Historic Data | Falls Lake--Sandling Beach |  |
| 306. | Eared Grebe <i>Podiceps nigricollis</i> | 1 | 28 Feb 2010 | CBC Historic Data | Falls Lake--Hwy. 50 Boat Ramp |  |
| 307. | Buff-breasted Sandpiper <i>Calidris subruficollis</i> | 1 | 6 Sep 2009 | Leslie Todd | Falls Lake | |
| 308. | American Goshawk <i>Astur atricapillus</i> | 1 | 1 Dec 2008 | CBC Historic Data | Six Forks Road--Beltline |  |
| 309. | Great Cormorant <i>Phalacrocorax carbo</i> | 1 | 26 Nov 2008 | CBC Historic Data | Falls Lake |  |
| 310. | Little Gull <i>Hydrocoloeus minutus</i> | 1 | 16 Nov 2006 | CBC Historic Data | Falls Lake--Sandling Beach |  |
| 311. | Red Knot <i>Calidris canutus</i> | 1 | 25 Aug 2005 | CBC Historic Data | Falls Lake |  |
| 312. | Magnificent Frigatebird <i>Fregata magnificens</i> | 1 | 17 Jul 2004 | CBC Historic Data | Falls Lake |   |
| 313. | White Wagtail <i>Motacilla alba</i> | 1 | 22 Oct 2002 | sharon funderburk | Falls Lake--Sandling Beach |  |
| 314. | Western Grebe <i>Aechmophorus occidentalis</i> | 1 | 11 Nov 2001 | CBC Historic Data | Falls Lake |  |
| 315. | Rough-legged Hawk <i>Buteo lagopus</i> | 1 | 17 Mar 1999 | CBC Historic Data | Raleigh |  |
| 316. | LeConte's Sparrow <i>Ammospiza leconteii</i> | 1 | 19 Dec 1998 | Will Cook | Lake Wheeler marshes |  |
| 317. | Pomarine Jaeger <i>Stercorarius pomarinus</i> | 1 | 16 Nov 1997 | Ricky Davis | Falls Lake--Olive Grove Church Rd. Peninsula |  |
| 318. | Eurasian Wigeon <i>Mareca penelope</i> | 1 | 21 Dec 1996 | CBC Historic Data | Lake Wheeler | |
| 319. | Bridled Tern <i>Onychoprion anaethetus</i> | 1 | 6 Sep 1996 | CBC Historic Data | Falls Lake | |
| 320. | Sooty Shearwater <i>Ardenna grisea</i> | 1 | 6 Sep 1996 | CBC Historic Data | Falls Lake | |

| | | | | | | |
|------|---|---|-------------|---------------------|---------------------------------------|--|
| 321. | Snow Bunting <i>Plectrophenax nivalis</i> | 1 | 9 Jan 1988 | Ricky Davis | Falls Lake--Sandling Beach | |
| 322. | Fulvous Whistling-Duck <i>Dendrocygna bicolor</i> | 1 | 7 Nov 1985 | CBC Historic Data | Falls Lake | |
| 323. | Bewick's Wren <i>Thryomanes bewickii</i> | 1 | 24 Apr 1982 | Ricky Davis | Falls Lake--Upper Beaverdam Reservoir | |
| 324. | Swainson's Hawk <i>Buteo swainsoni</i> | 1 | 21 Mar 1982 | CBC Historic Data | Lake Benson | |
| 325. | Red-cockaded Woodpecker <i>Dryobates borealis</i> | 1 | 27 Sep 1981 | Marbry Hopkins | Falls Lake--Dam | |
| 326. | Lark Bunting <i>Calamospiza melanocorys</i> | 1 | 2 May 1978 | CBC Historic Data | Dorthea Dix Hospital | |
| 327. | Harris's Sparrow <i>Zonotrichia querula</i> | 1 | 21 Nov 1976 | CBC Historic Data | Falls Lake--Beaverdam Reservoir | |
| 328. | Western Meadowlark <i>Sturnella neglecta</i> | 1 | 20 Jan 1968 | Lee Jones | Greenview | |
| 329. | Gull-billed Tern <i>Gelochelidon nilotica</i> | 1 | 7 Oct 1967 | CBC Historic Data | Raleigh | |
| 330. | Bachman's Warbler <i>Vermivora bachmanii</i> | 1 | 22 May 1891 | CBC Historic Data | Raleigh | |
| 331. | Purple Gallinule <i>Porphyrio martinica</i> | 1 | 3 Jun 1887 | Arthur C. Bent Data | Raleigh | |
| 332. | Black Rail <i>Laterallus jamaicensis</i> | 1 | Sensitive | | | |










EXOTIC: ESCAPEE (10)

| | | | | | | |
|--|--|---|-------------|-----------------|-----------|--|
| | Graylag Goose <i>Anser anser</i> | 1 | 23 Oct 2024 | LynnErla Beegle | Lake Lynn | |
| | Muscovy Duck <i>Cairina moschata</i> | 2 | 19 Oct 2024 | Robbie Wyatt | Lake Lynn | |

| | | | | | |
|--|----|-------------|-------------------|--|-----|
| Mute Swan <i>Cygnus olor</i> * | 5 | 13 Oct 2024 | Marc Ribaudó | Lake Benson | |
| Helmeted Guineafowl <i>Numida meleagris</i> * | 40 | 1 Mar 2024 | Charles Tysinger | Harris Game Land--Upper Boat Ramp | 📄 |
| Swan Goose <i>Anser cygnoides</i> * | 2 | 16 Dec 2023 | Lauren Marmor | Lake Benson | |
| Indian Peafowl <i>Pavo cristatus</i> * | 1 | 18 Oct 2023 | Michelle robinson | White Oak Creek Greenway--Wetland | 📄 |
| Northern Red Bishop <i>Euplectes franciscanus</i> * | 1 | 22 Jun 2023 | Anonymous eBirder | Backyard | 📄 📷 |
| Budgerigar <i>Melopsittacus undulatus</i> * | 1 | 8 May 2023 | Matt Kosater | Creekside yard | 📄 📷 |
| Mandarin Duck <i>Aix galericulata</i> * | 1 | 26 Dec 2021 | Lawrence Zoller | Bass Lake Park & Trail | 📄 📷 |
| Rosy-faced Lovebird <i>Agapornis roseicollis</i> * | 1 | 28 Aug 2019 | CathySue Harvey | 308 Hinton Street, Knightdale US 35.792, -78.523 | 📄 |





HYBRIDS (10)

| | | | | | |
|--|---|-------------|-------------------|-------------------|--|
| Domestic goose sp. x Canada Goose (hybrid) <i>Anser sp. (Domestic type) x Branta canadensis</i> * | 1 | 1 Oct 2024 | Steven Vozzo | Lake Johnson Park | |
| Muscovy Duck x Mallard (hybrid) <i>Cairina moschata x Anas platyrhynchos</i> * | 2 | 20 Sep 2024 | Sujata roy | Lake Lynn | |
| Graylag x Swan Goose (hybrid) <i>Anser anser x cygnoides</i> * | 1 | 9 Sep 2024 | Anonymous eBirder | Bass Lake Park | |
| Swan Goose x Canada Goose (hybrid) <i>Anser cygnoides x Branta canadensis</i> * | 1 | 9 Sep 2024 | Anonymous eBirder | Bass Lake Park | |










| | | | | | |
|---|---|-------------|---------------|---|---|
| Graylag x Canada Goose (hybrid) <i>Anser anser x Branta canadensis</i> |  1 | 20 Feb 2024 | Corie Latta | Schenck Forest | |
| Mallard x American Black Duck (hybrid) <i>Anas platyrhynchos x rubripes</i> | 1 | 15 Jan 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| Chipping x Field Sparrow (hybrid) <i>Spizella passerina x pusilla</i> | 1 | 7 Jan 2020 | Sujata roy | 1121 Checkerberry Drive |   |
| Dark-eyed Junco x White-throated Sparrow (hybrid) <i>Junco hyemalis x Zonotrichia albicollis</i> | 1 | 9 Jan 2017 | Tuey Amos | Tuey's Yard |   |
| Lawrence's Warbler (hybrid) <i>Vermivora chrysoptera x cyanoptera (F2 backcross)</i> | 1 | 29 Apr 2016 | Josh Southern | Bass Lake Park & Trail |   |
| American Herring x Glaucous Gull (hybrid) <i>Larus smithsonianus x hyperboreus</i> | 2 | 13 Feb 2013 | Nick Bonomo | South Wake Landfill |   |


















ADDITIONAL TAXA (72)







| | | | | | |
|---|---|-------------|---|---|---|
| passerine sp. <i>Passeriformes sp.</i> | 1 | 22 Oct 2024 | Jay Sliwinski  | Lookout Loop, Raleigh, NC | |
| Ruby-crowned/Golden-crowned Kinglet <i>Corthylio calendula/Regulus satrapa</i> | 1 | 22 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| House/Purple Finch <i>Haemorhous mexicanus/purpureus</i> | 1 | 22 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) | |
| blackbird sp. <i>Icteridae sp.</i> | X | 21 Oct 2024 | Jeff Beane | Prairie Ridge Ecostation for Wildlife Learning |  |










| | | | | |
|---|---|-------------|-------------------|---|
| Downy/Hairy Woodpecker <i>Dryobates pubescens/villosus</i> | X | 20 Oct 2024 | Gregory Skupien | William B. Umstead SP--Big Lake |
| shorebird sp. <i>Charadriiformes sp. (shorebird sp.)</i> | 1 | 19 Oct 2024 | Mark DiGiovanni | Lake Betz  |
| Buteo sp. <i>Buteo sp.</i> | 1 | 19 Oct 2024 | Margaret Brewster | Mid Pines Rd. |
| American/Fish Crow <i>Corvus brachyrhynchos/ossifragus</i> | 1 | 18 Oct 2024 | Royce Marcus | Magnolia South Apartments Complex |
| vireo sp. <i>Vireo sp.</i> | 1 | 18 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
| new world sparrow sp. <i>Passerellidae sp.</i> | 1 | 18 Oct 2024 | Caleb Bronsink | Lake Lynn  |
| duck sp. <i>Anatidae (duck sp.)</i> | 1 | 18 Oct 2024 | Chip Davis | Lake Crabtree County Park  |
| gull sp. <i>Larinae sp.</i> | 1 | 18 Oct 2024 | Chip Davis | Lake Crabtree County Park |
| new world warbler sp. <i>Parulidae sp.</i> | 2 | 17 Oct 2024 | Caleb Bronsink | North Carolina State University Campus |
| Summer/Scarlet Tanager <i>Piranga rubra/olivacea</i> | 2 | 16 Oct 2024 | Jan Heard | Lake Lynn |
| Sharp-shinned/Cooper's Hawk <i>Accipiter striatus/Astur cooperii</i> | 1 | 16 Oct 2024 | Eddie Owens | Bond Park |
| hawk sp. <i>Accipitridae sp. (hawk sp.)</i> | 1 | 15 Oct 2024 | Steven Vozzo | Yates Mill County Park |
| Catharus sp. <i>Catharus sp.</i> | 1 | 12 Oct 2024 | WS Barbour | Swift Creek Bluffs |
| swallow sp. <i>Hirundinidae sp.</i> | 1 | 11 Oct 2024 | Gabrielle P | Edna Metz Wells Park |
| finch sp. <i>Fringillidae sp.</i> | 1 | 7 Oct 2024 | Nancy Blob | 8817 Buffalo Gourd Lane, Angier, North Carolina, US (35.541, -78.753) |
|  | 1 | 5 Oct 2024 | Mitchell Dart | Lake Lynn |

Domestic goose sp.
(Domestic type)
Anser sp. (Domestic type)

| | | | | |
|--|----|-------------|----------------------|--|
| woodpecker sp. <i>Picidae sp.</i> | 1 | 5 Oct 2024 | Daniel Gassaway | Morrisville Community Park  |
| Empidonax sp. <i>Empidonax sp.</i> | 1 | 30 Sep 2024 | Liling Warren | Lake Lynn |
| Accipitrine hawk sp. (former Accipiter sp.) <i>Aerospiza/Tachyspiza/Accipiter/Astur</i> sp. | 1 | 26 Sep 2024 | Eddie Owens | Lake Lynn |
| Yellow-billed/Black-billed Cuckoo <i>Coccyzus</i> <i>americanus/erythrophthalmus</i> | 1 | 22 Sep 2024 | Larry Carpenter | Yates Mill County Park  |
| Sterna sp. <i>Sterna sp.</i> | 5 | 17 Sep 2024 | Kevin Markham | Lake Crabtree County Park |
| peep sp. <i>Calidris sp. (peep sp.)</i> | 6 | 31 Aug 2024 | Eddie Owens | Lake Crabtree Nature Trail-- Southport Entrance |
| Alder/Willow Flycatcher (Traill's Flycatcher) <i>Empidonax alnorum/traillii</i> | 1 | 30 Aug 2024 | Robert Oberfelder | Yates Mill County Park   |
| crow sp. <i>Corvus sp. (crow sp.)</i> | 25 | 21 Aug 2024 | Bridget B. | sms outside smedes  |
| heron sp. <i>Ardeidae sp.</i> | 17 | 28 Jul 2024 | Mark DiGiovanni | Lake Betz  |
| new world vulture sp. <i>Cathartidae sp.</i> | 12 | 21 Jun 2024 | Grant D | 314 S Salem St, Apex US-NC 35.72759, -78.85400 |
| Yellow-crowned/Black- crowned Night Heron <i>Nycticorax</i> <i>nycticorax/Nyctanassa violacea</i> | 1 | 1 Jun 2024 | Kevin Markham | Yates Mill County Park  |
| crow/raven sp. <i>Corvus sp.</i> | 2 | 18 May 2024 | Madelyn Perry | North Carolina State University Campus  |
| chickadee sp. <i>Poecile sp.</i> | 1 | 17 May 2024 | Madelyn Perry | North Carolina State University Campus  |
| owl sp. <i>Strigiformes sp.</i> | 1 | 12 May 2024 | Amanda Essien | 4804 Crestmore Rd, Raleigh US-NC 35.84817, -78.67804 |

| | | | | | |
|---|---|-------------|----------------------|--|---|
| Lesser/Greater Yellowlegs <i>Tringa flavipes/melanoleuca</i> | 1 | 5 May 2024 | Royce Marcus | Lake Crabtree Nature Trail-- Southport Entrance |  |
| merganser sp. <i>Mergellus/Lophodytes/Mergus</i> sp. | 8 | 4 May 2024 | Anonymous eBirder | Lake Wheeler marshes |   |
| Antrostomus sp. <i>Antrostomus sp.</i> | 7 | 20 Apr 2024 | Jason hs | Harris Game Land--Upper Boat Ramp |  |
| Greater/Lesser Scaup <i>Aythya marila/affinis</i> | 8 | 15 Apr 2024 | Mark DiGiovanni | Lake Crabtree Nature Trail-- Southport Entrance | |
| Rufous/Allen's Hummingbird <i>Selasphorus rufus/sasin</i> | 1 | 28 Jan 2024 | Jennifer Bethke | Willoughby Place |   |
| diurnal raptor sp. <i>Accipitriformes/Falconiformes</i> sp. | 1 | 20 Jan 2024 | Mitchell Dart | Harris Game Land--Upper Boat Ramp |  |
| goose sp. <i>Anatidae (goose sp.)</i> | 1 | 11 Dec 2023 | Caleb Bronsink | Lake Raleigh |   |
| Selasphorus sp. <i>Selasphorus sp.</i> | 1 | 6 Oct 2023 | Diane Allen | Backyard |  |
| corvid sp. <i>Corvidae sp.</i> | 1 | 15 Sep 2023 | Caleb Bronsink | Lake Lynn |  |
| King/Virginia Rail <i>Rallus elegans/limicola</i> | 1 | 17 May 2023 | Sandy Cash | Lake Crabtree Nature Trail-- Southport Entrance |  |
| Short-billed/Long-billed Dowitcher <i>Limnodromus</i> <i>griseus/scolopaceus</i> | 5 | 14 May 2023 | Eddie Owens | Lake Crabtree Nature Trail--Southport Entrance |   |
| thrush sp. <i>Turdidae sp.</i> | 1 | 26 Mar 2023 | Maxwell Ramey | Hemlock Bluffs Nature Preserve |  |
| large rail sp. <i>Rallus sp. (large Rallus sp.)</i> | 1 | 20 Mar 2023 | Trenton Voytko | American Tobacco Trail-- New Hill-Olive Chapel Road Access |  |
| bird sp. <i>Aves sp.</i> | 1 | 14 Oct 2022 | Kevin Durso | Fred Fletcher Park |  |

| | | | | | |
|---|---|-------------|---------------------|---|---|
| new world flycatcher sp. <i>Tyrannidae sp.</i> | 1 | 23 Sep 2022 | Lisa Falk | Bond Park |  |
| Western/Semipalmated Sandpiper <i>Calidris mauri/pusilla</i> | 5 | 9 Sep 2022 | Trenton Voytko | Lake Wheeler marshes |  |
| ibis sp. <i>Threskiornithidae sp. (ibis sp.)</i> | 3 | 20 Aug 2022 | Trenton Voytko | American Tobacco Trail-- New Hill-Olive Chapel Road Access |  |
| nuthatch sp. <i>Sitta sp.</i> | 1 | 29 Apr 2022 | Kyle Gardiner | Crabtree Creek Wetland-- West of Raleigh Blvd. |  |
| loon sp. <i>Gavia sp.</i> | 3 | 8 Dec 2021 | Colleen Bockhahn | Lake Crabtree County Park |  |
| small falcon sp. <i>Falco sp. (small falcon sp.)</i> | 1 | 14 Nov 2021 | Matthew Withrow | Mid Pines Rd. |  |
| Calidris sp. <i>Calidris sp.</i> | 2 | 10 Nov 2021 | WS Barbour | Lake Wheeler marshes |  |
| Gray-cheeked/Bicknell's Thrush <i>Catharus minimus/bicknelli</i> | 1 | 27 Sep 2021 | Marjorie Palmer | umstead park | |
| Louisiana/Northern Waterthrush <i>Parkesia motacilla/noveboracensis</i> | 1 | 13 May 2021 | Seema Sheth | 1115 Contessa Dr, Cary US- NC 35.79089, -78.80298 |  |
| falcon sp. <i>Falco sp.</i> | 1 | 17 Apr 2021 | Seema Sheth | Neuse River Trail--Mial Plantation Road |  |
| grebe sp. <i>Podicipedidae sp.</i> | 4 | 30 Jan 2021 | Jeremy Wrenn | 1648 Old Weaver Trail, Wake Forest, North Carolina, US (36.041, -78.672) |  |
| new world martin sp. (Progne sp.) <i>Progne sp.</i> | 1 | 6 Nov 2020 | John Lynch | Durant Nature Preserve |  |
| cuckoo sp. (Cuculidae sp.) <i>Cuculidae sp.</i> | 1 | 24 May 2020 | Sam B | Yates Mill County Park |  |
| hummingbird sp. <i>Trochilidae sp.</i> | 1 | 25 Apr 2020 | Kasey Yulfo | 302 Walbury Drive, Knightdale, North Carolina, US (35.789, -78.493) |  |

| | | | | | |
|--|----|-------------|-------------------------|--|---|
| tern sp. <i>Sterninae sp.</i> | 3 | 6 Sep 2019 | Brian Bockhahn | Falls Lake--Sandling Beach |  |
| Bullock's/Baltimore Oriole <i>Icterus bullockii/galbula</i> | 1 | 22 Mar 2018 | LynnErla Beegle | Foxwood Drive (Beegle's yard) (35.8893402, -78.6553067) |  |
| Snow/Ross's Goose <i>Anser caerulescens/rossii</i> | 2 | 23 Jan 2018 | Lucas Bobay | Holly Springs- Avent Acres |  |
| Aythya sp. <i>Aythya sp.</i> | 32 | 13 Jan 2018 | Sebass Pennisi | Lake Crabtree County Park |  |
| swan sp. <i>Cygnus sp.</i> | 1 | 29 Nov 2017 | Brian O'Shea | Prairie Ridge Ecostation for Wildlife Learning |  |
| large falcon sp. <i>Falco sp. (large falcon sp.)</i> | 1 | 17 Oct 2016 | Elizabeth Farley-Dawson | US-North Carolina-Raleigh-421 Fayetteville Street - 35.774x-78.639 |  |
| Forster's/Common Tern <i>Sterna forsteri/hirundo</i> | 1 | 24 Sep 2015 | Allen Boynton | Lake Johnson Park | |
| Horned/Eared Grebe <i>Podiceps auritus/nigricollis</i> | 1 | 17 Mar 2013 | Nate Swick | Lake Crabtree County Park |  |
| Sooty/Bridled Tern <i>Onychoprion fuscatus/anaethetus</i> | 5 | 1 Sep 2006 | CBC Historic Data | Falls Lake |  |
| phalarope sp. <i>Phalaropus sp.</i> | 30 | 6 Sep 1999 | CBC Historic Data | Falls Lake |  |

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ATTACHMENT 2

**USFWS ENDANGERED SPECIES, THREATENED SPECIES, FEDERAL SPECIES OF
CONCERN AND CANDIDATE SPECIES LIST**

| County | Common Name | Scientific Name | State |
|--------|--------------------------|---------------------------|----------------|
| Wake | Atlantic Pigtoe | Fusconaia masoni | North Carolina |
| Wake | Cape Fear Shiner | Notropis mekistocholas | North Carolina |
| Wake | Carolina madtom | Noturus furiosus | North Carolina |
| Wake | Dwarf Wedgemussel | Alasmidonta heterodon | North Carolina |
| Wake | Harperella | Ptilimnium nodosum | North Carolina |
| Wake | Michaux's sumac | Rhus michauxii | North Carolina |
| Wake | Monarch Butterfly | Danaus plexippus | North Carolina |
| Wake | Neuse River waterdog | Necturus lewisi | North Carolina |
| Wake | Red-cockaded woodpecker | Picoides borealis | North Carolina |
| Wake | Rough-leaved loosestrife | Lysimachia asperulaefolia | North Carolina |
| Wake | Smooth coneflower | Echinacea laevigata | North Carolina |
| Wake | Tar River spinkymussel | Parvaspina steinstansana | North Carolina |
| Wake | Tricolored Bat | Perimyotis subflavus | North Carolina |
| Wake | Yellow Lance | Elliptio lanceolata | North Carolina |

Source: https://www.biologicaldiversity.org/programs/population_and_sustainability/T_and_E_map/

ATTACHMENT 3

NORTH CAROLINA NATURE HERITAGE PROGRAM SPECIES LIST

| Taxonomic Group | Scientific Name | Common Name | NC Status | Federal Status | State Rank | Global Rank | County | County Status | Habitat Comment |
|---------------------------|---|----------------------------|-----------|----------------|------------|-------------|--------|---------------|---|
| Vascular Plant | <i>Acnella repens</i> | Creeping Spotflower | SR-D | none | S1 | G5T5 | Wake | Current | low wet areas and floating mats in alluvial forests and swamps |
| Vascular Plant | <i>Acnison helleri</i> | Carolina Birdfoot-trefoil | T | none | S3 | G5T3 | Wake | Current | woodlands and openings, generally on clayey soils, roadsides |
| Moth | <i>Acrapex relictata</i> | Relict Cane Moth | W3 | none | S3 | G4 | Wake | Current | canebrakes |
| Moth | <i>Acronicta albarufa</i> | Barrens Dagger Moth | SR | none | S1S2 | G3G4 | Wake | Historical | oak glades and barrens |
| Vascular Plant | <i>Agalinis decemloba</i> (syn. <i>Agalinis acuta</i>) | Piedmont Gerardia | W1 | none | S3 | G3G4 | Wake | Current | dry, open sites |
| Vascular Plant | <i>Agastache nepetoides</i> | Yellow Giant-hyssop | SR-P | none | S1 | G5 | Wake | Historical | oak--hickory forests, especially over mafic rocks |
| Freshwater Bivalve | <i>Alasmidonta heterodon</i> | Dwarf Wedgemussel | E | E | S1 | G2? | Wake | Current | Tar and Neuse drainages, mainly near Fall Line |
| Freshwater Bivalve | <i>Alasmidonta undulata</i> | Triangle Floater | T | none | S3 | G4 | Wake | Current | Roanoke, Chowan, Tar, Neuse, Cape Fear drainages |
| Freshwater Fish | <i>Alburnops chalybaeus</i> | Ironcolor Shiner | T | none | S2S3 | G4 | Wake | Current | coastal plain rivers and creeks |
| Butterfly | <i>Amblyscirtes carolina</i> | Carolina Roadside-Skipper | W2 | none | S3S4 | G3G4 | Wake | Current | moist woods (mainly hardwoods) near cane; host plant -- cane (<i>Arundinaria</i>) |
| Amphibian | <i>Ambystoma talpoideum</i> | Mole Salamander | SC | none | S2S3 | G5 | Wake | Historical | breeds in fish-free semipermanent woodland ponds; forages in adjacent woodlands |
| Amphibian | <i>Ambystoma tigrinum</i> | Eastern Tiger Salamander | T | none | S2 | G5 | Wake | Current | breeds in fish-free semipermanent ponds; forages in adjacent woods, usually sandy |
| Bird | <i>Ammodramus henslowii</i> | Henslow's Sparrow | E | none | S1B,S1N | G4 | Wake | Historical | clearcut pocosins and other damp weedy fields [breeding season only] |
| Bird | <i>Ammodramus savannarum</i> | Grasshopper Sparrow | W1,W5 | none | S3B,S1N | G5 | Wake | Current | pastures and other grasslands [breeding season only] |
| Vascular Plant | <i>Ampelopsis cordata</i> | Heartleaf Peppervine | W7 | none | S2 | G5 | Wake | Current | floodplain forests |
| Sawfly, Wasp, Bee, or Ant | <i>Andrena arabis</i> | Mustard Miner Bee | W3 | none | SH | GNR | Wake | Historical | Arabis and Cardamine specialist |
| Sawfly, Wasp, Bee, or Ant | <i>Andrena carolinensis</i> | an andrenid bee | W3 | none | SH | GNR | Wake | Historical | collected on <i>Vicia caroliniana</i> , a pea species found throughout Piedmont and Mountains |
| Sawfly, Wasp, Bee, or Ant | <i>Andrena rudbeckiae</i> | an andrenid bee | W3 | none | SH | GNR | Wake | Historical | coneflower specialist, including <i>Rudbeckia</i> |
| Moth | <i>Anicla lubricans</i> | Slippery Dart | W3 | none | S3? | G4G5 | Wake | Current | savannas and flatwoods |
| Moss | <i>Archidium donnellii</i> | Donnell's Archidium | SR-O | none | S1 | G3G5 | Wake | Current | sandy or gravelly soil along roadsides, in fields, near granitic outcrops |
| Moth | <i>Arugisa latiorella</i> | Watson's Arugisa Moth | W3 | none | S3? | G4 | Wake | Current | sedgy glades |
| Vascular Plant | <i>Bartonia paniculata</i> ssp. <i>paniculata</i> | Twining Screwstem | W1 | none | S2S3 | G5T5 | Wake | Historical | bogs, wet savannas, sandhill seeps, other open wet areas |
| Natural Community | Basic Mesic Forest (Piedmont Subtype) | | | none | S3S4 | G3G4 | Wake | Current | null |
| Sawfly, Wasp, Bee, or Ant | <i>Bombus affinis</i> | Rusty-patched Bumble Bee | SR | E | S1 | G2 | Wake | Historical | nests in abandoned mammal burrows, gathers nectar and pollen from a variety of flowering |
| Sawfly, Wasp, Bee, or Ant | <i>Bombus fraternus</i> | Southern Plains Bumble Bee | W3 | none | S2S3 | G3G4 | Wake | Current | prairie remnants and urban gardens |

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|---------------------------|--|---------------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Sawfly, Wasp, Bee, or Ant | <i>Bombus pensylvanicus</i> | American Bumble Bee | W3 | none | S3S4 | G3G4 | Wake | Current | open habitats, fields |
| Sawfly, Wasp, Bee, or Ant | <i>Bombus variabilis</i> | Variable Cuckoo Bumble Bee | SR | none | SH | G1G2 | Wake | Historical | open habitats, fields |
| Moss | <i>Bruchia ravenelii</i> | A Pygmy Moss | W7 | none | SH | G3? | Wake | Historical | sandy soil of old fields and open woods |
| Vascular Plant | <i>Buchnera americana</i> | American Bluehearts | E | none | S1 | GNR | Wake | Historical | glades, open forests, streambanks, probably primarily over mafic or calcareous rocks |
| Crustacean | <i>Cambarus davidi</i> | Carolina Ladle Crayfish | SR | none | S3 | G3 | Wake | Current | Neuse and Cape Fear drainages (endemic to North Carolina) |
| Moss | <i>Campylopus oerstedianus</i> | Oersted's Campylopus | SR-D | none | S1 | G2G3 | Wake | Historical | granite flatrocks |
| Vascular Plant | <i>Cardamine douglassii</i> | Douglass's Bittercress | SR-P | none | S2 | G5 | Wake | Current | bottomlands, rich lower slopes |
| Vascular Plant | <i>Carex jamesii</i> | James's Sedge | SC-V | none | S2 | G5 | Wake | Current | rich woods, especially over mafic rocks |
| Vascular Plant | <i>Carex meadii</i> | Mead's Sedge | E | none | S1 | G5 | Wake | Historical | low wet places over diabase |
| Vascular Plant | <i>Carex reniformis</i> | Kidney Sedge | T | none | S1 | G4? | Wake | Historical | swamps, open wet areas |
| Moth | <i>Catocala marmorata</i> | Marbled Underwing | SR | none | S1S3 | G3? | Wake | Current | forests with cottonwoods or willows, especially with swamp cottonwood |
| Vascular Plant | <i>Celtis occidentalis</i> | Mountain Hackberry | W7 | none | S2 | G5 | Wake | Current | rocky woodlands and mafic cliffs |
| Reptile | <i>Cemophora coccinea</i> | Scarlet Snake | W1,W5 | none | S3 | G5 | Wake | Current | sandhills, sandy woods, and other dry woods |
| Vascular Plant | <i>Cirsium carolinianum</i> | Carolina Thistle | E | none | S1 | G5 | Wake | Historical | forests and disturbed areas, mostly on basic soils |
| Moth | <i>Cisthene kentuckiensis</i> | Kentucky Lichen Moth | W3 | none | SU | GU | Wake | Current | wet to mesic forests |
| Moss | <i>Cleistocarpidium palustre</i> | Phascum moss | SR-D | none | S1 | G5? | Wake | Current | wet soil, sandy swamps |
| Vascular Plant | <i>Clematis catesbyana</i> | Coastal Virgin's-bower | SR-P | none | S2 | G5 | Wake | Historical | dunes, edges of maritime forests, or over dolomite |
| Reptile | <i>Clemmys guttata</i> | Spotted Turtle | W1 | none | S4 | G5 | Wake | Current | shallow water of pools, marshes, wet pastures and other smaller wetlands |
| Natural Community | Coastal Plain Semipermanent Impoundment (Cypress-Gum | | | none | S4 | G4G5 | Wake | Current | null |
| Natural Community | Coastal Plain Semipermanent Impoundment (Open Water | | | none | S4 | G5 | Wake | Current | null |
| Natural Community | Coastal Plain Semipermanent Impoundment (Typic Marsh | | | none | S4 | G4? | Wake | Current | null |
| Natural Community | Coastal Plain Small Stream Swamp | | | none | S4 | G4? | Wake | Current | null |
| Vascular Plant | <i>Comptonia peregrina</i> | Sweet Fern | W1 | none | S3 | G5 | Wake | Historical | open dry sites, often fire-maintained |
| Mammal | <i>Condylura cristata</i> pop. 1 | Star-nosed Mole - Coastal Plain | SC | none | S2 | G5T2Q | Wake | Historical | moist meadows, bogs, swamps, bottomlands |
| Dragonfly or Damselfly | <i>Coryphaeschna ingens</i> | Regal Darner | SR | none | S2? | G5 | Wake | Historical | lakes and ponds |

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|--------------------|---|----------------------------|-----------|----------------|------------|-------------|--------|---------------|---|
| Vascular Plant | <i>Crataegus munda</i> var. <i>munda</i> | Batesburg Hawthorn | SR-T | none | S2? | G4G5TNR | Wake | Current | xeric or subxeric forests, scrublands, disturbed woodlands |
| Reptile | <i>Crotalus horridus</i> | Timber Rattlesnake | SC | none | S3 | G4 | Wake | Historical | wetland forests in the Coastal Plain; rocky, upland forests elsewhere |
| Vascular Plant | <i>Cyperus granitophilus</i> | Granite Flatsedge | T | none | S2 | G3G4 | Wake | Current | granite flatrocks, other rock outcrops |
| Vascular Plant | <i>Cyperus virens</i> | Green Flatsedge | SC-V | none | S1 | G5 | Wake | Historical | and ditches |
| Vascular Plant | <i>Diamorpha smallii</i> | Elf Orpine | W1 | none | S3 | G4 | Wake | Current | granite flatrocks |
| Caddisfly | <i>Dibusa angata</i> | Angulated Microcaddisfly | SR | none | S2 | G4G5 | Wake | Historical | larger streams and rivers in Tar, Neuse, and Yadkin-Pee Dee drainages |
| Vascular Plant | <i>Dichanthelium annulum</i> | Ringed Witch Grass | E | none | S1 | G4 | Wake | Historical | dry sandy or rocky open woods and borders of thickets |
| Vascular Plant | <i>Dichanthelium cryptanthum</i> | Hidden-flowered Witchgrass | SR-T | none | S2 | G3Q | Wake | Historical | wet streamhead pocosin openings, including utility clearings |
| Vascular Plant | <i>Didiplis diandra</i> | Water Purslane | SR-P | none | S1 | G3G4 | Wake | Current | sluggish streams and ponds |
| Vascular Plant | <i>Dirca palustris</i> | Leatherwood | W1 | none | S3 | G5 | Wake | Current | rich woods, either alluvial or over mafic or calcareous rocks |
| Natural Community | Dry Basic Oak--Hickory Forest | | | none | S2S3 | G2G3 | Wake | Current | null |
| Natural Community | Dry Oak--Hickory Forest (Piedmont Subtype) | | | none | S4 | G4G5 | Wake | Current | null |
| Natural Community | Dry Piedmont Longleaf Pine Forest | | | none | S2 | G2 | Wake | Current | null |
| Natural Community | Dry-Mesic Oak--Hickory Forest (Piedmont Subtype) | | | none | S4 | G4G5 | Wake | Current | null |
| Bird | <i>Dryobates borealis</i> | Red-cockaded Woodpecker | E | E | S2 | G3 | Wake | Historical | mature open pine forests, mainly in longleaf pine [breeding evidence only] |
| Vascular Plant | <i>Dryopteris cristata</i> | Crested Woodfern | W1 | none | S3 | G5 | Wake | Current | bogs, wet woods |
| Vascular Plant | <i>Eleocharis equisetoides</i> | Horsetail Spikerush | W1 | none | S3 | G4 | Wake | Current | limesink ponds, lakes, borrow pits, ditches |
| Freshwater Bivalve | <i>Elliptio cistellaeformis</i> | Box Spike | W3,W5 | none | SU | G4 | Wake | Current | Neuse, Lumber, Pee Dee drainages; Lake Waccamaw |
| Freshwater Bivalve | <i>Elliptio congaraea</i> (syn. <i>Elliptio waccamawensis</i>) | Carolina Slabshell | W2,W5 | none | S3 | G3 | Wake | Current | drainages north to the White Oak drainage |
| Freshwater Bivalve | <i>Elliptio fisheriana</i> | Northern Lance | SR | none | S3 | G4 | Wake | Current | Atlantic Slope drainages |
| Freshwater Bivalve | <i>Elliptio lanceolata</i> | Yellow Lance | T | T | S2 | G2 | Wake | Current | Tar and Neuse drainages |
| Freshwater Bivalve | <i>Elliptio producta</i> | Atlantic Spike | W3,W5 | none | SU | G3 | Wake | Current | many Atlantic drainages; very difficult to identify |
| Freshwater Bivalve | <i>Elliptio roanokensis</i> | Roanoke Slabshell | SC | none | S3 | G3 | Wake | Current | Roanoke, Tar, Neuse, White Oak, Cape Fear, Lumber, and Yadkin-Pee Dee drainages |
| Vascular Plant | <i>Elodea canadensis</i> | Canada Waterweed | W7 | none | S1? | G5 | Wake | Historical | lakes, ponds, and stagnant waters of streams |
| Vascular Plant | <i>Elodea nuttallii</i> | Nuttall's Elodea | W7 | none | S2? | G5 | Wake | Historical | lakes, ponds, and streams |

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|------------------------|--|-------------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Bird | <i>Empidonax traillii</i> | Willow Flycatcher | W2 | none | S3B | G5 | Wake | Historical | wet thickets in open country, often along streams in broad valleys [breeding season only] |
| Freshwater Fish | <i>Enneacanthus obesus</i> | Banded Sunfish | SR | none | S3 | G5 | Wake | Historical | most Atlantic drainages |
| Butterfly | <i>Erynnis martialis</i> | Mottled Duskywing | SR | none | S2 | G3 | Wake | Historical | upland woods and wooded edges; host plant -- New Jersey tea (<i>Ceanothus americanus</i>) |
| Freshwater Fish | <i>Etheostoma collis</i> | Carolina Darter | SC | none | S3 | G3 | Wake | Current | Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee, and Catawba drainages |
| Freshwater Fish | <i>Etheostoma flabellare</i> | Fantail Darter | W5 | none | S3 | G5 | Wake | Current | Cape Fear, Neuse, and Tar drainage populations have limited distribution; Pee Dee, Roanoke, |
| Freshwater Fish | <i>Etheostoma vitreum</i> | Glassy Darter | W5 | none | S3 | G4G5 | Wake | Current | Chowan, Roanoke, Tar, and Neuse drainages |
| Vascular Plant | <i>Eupatorium altissimum</i> | Tall Boneset | W1 | none | S2 | GNR | Wake | Historical | woodlands, openings, and old fields over mafic rocks |
| Vascular Plant | <i>Eupatorium godfreyanum</i> | Godfrey's Thoroughwort | W1 | none | S3 | G4 | Wake | Historical | woodlands, especially over mafic rocks |
| Amphibian | <i>Eurycea quadridigitata</i> | Dwarf Salamander | SC | none | S1 | G5 | Wake | Historical | pocosins, Carolina bays, pine flatwoods, savannas, and other wetland habitats |
| Bird | <i>Falco peregrinus anatum</i> | American Peregrine Falcon | E | none | S1B,S2N | G4T4 | Wake | Current | cliffs (nesting); coastal ponds and mudflats (foraging in winter) [breeding evidence;Â regular |
| Vascular Plant | <i>Fallopia cristata</i> | Crested Climbing Buckwheat | W7 | none | S2? | G5T5 | Wake | Historical | moist forests, especially alluvial forests |
| Crustacean | <i>Faxonius carolinensis</i> | North Carolina Spiny Crayfish | SC | none | S3 | G3 | Wake | Current | rivers and streams in the Chowan, Roanoke, Neuse, and Tar drainages |
| Lichen | <i>Fellhanera hybrida</i> | Piedmont Crustose Lichen | W7 | none | S2? | G2? | Wake | Current | shaded siliceous rock and bases of trees |
| Natural Community | Floodplain Pool | | | none | S2 | G3 | Wake | Current | null |
| Moss | <i>Fontinalis flaccida</i> | A Water Moss | W7 | none | S1S2 | G4G5 | Wake | Historical | bases of trees in brooks or swamps, submerged |
| Vascular Plant | <i>Fothergilla major</i> | Large Witch-alder | SR-T | none | S3 | G3 | Wake | Current | dry ridgetop or bluff forests, seepage wetlands, and Piedmont longleaf pine forests |
| Freshwater Fish | <i>Fundulus sp. cf. diaphanus</i> | Lake Phelps Killifish | SR | none | S1 | G1Q | Wake | Current | Lake Phelps (endemic to this lake) |
| Freshwater Bivalve | <i>Fusconaia masoni</i> | Atlantic Pigtoe | T | T | S3 | G1 | Wake | Current | Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee drainages |
| Vascular Plant | <i>Gillenia stipulata</i> | Indian Physic | T | none | S2 | G5 | Wake | Historical | forests and open woods, mainly over mafic rocks |
| Dragonfly or Damselfly | <i>Gomphurus septima</i> | Septima's Clubtail | SR | none | S3 | G3 | Wake | Current | rocky rivers |
| Dragonfly or Damselfly | <i>Gomphurus ventricosus</i> | Skillet Clubtail | SR | none | S1 | G3 | Wake | Current | rivers |
| Moth | <i>Grammia doris</i> | Doris Tiger Moth | SR | none | S1S3 | G4? | Wake | Current | rich forests? |
| Moth | <i>Grammia phyllira</i> | Phyllira Tiger Moth | W2 | none | S3 | G3G5 | Wake | Current | sandhills |
| Natural Community | Granitic Flatrock (Annual Herb Subtype) | | | none | S2 | G3 | Wake | Current | null |
| Natural Community | Granitic Flatrock (Perennial Herb Subtype) | | | none | S2 | G3 | Wake | Current | null |

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|------------------------|--|------------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Natural Community | Granitic Flatrock Border Woodland | | | none | S2 | G3? | Wake | Current | null |
| Bird | <i>Haliaeetus leucocephalus</i> | Bald Eagle | T | BGPA | S3B,S3N | G5 | Wake | Current | mature forests near large bodies of water (nesting); rivers, lakes, and sounds (foraging) |
| Vascular Plant | <i>Helenium brevifolium</i> | Littleleaf Sneezeweed | E | none | S1 | G4 | Wake | Historical | bogs, seeps, riverbanks, other wet sites |
| Moth | <i>Heliomata infulata</i> | Rare Spring Moth | W3 | none | S2S3 | G3G4 | Wake | Current | forests or woodlands with shrubby locusts |
| Amphibian | <i>Hemidactylum scutatum</i> | Four-toed Salamander | SC | none | S3 | G5 | Wake | Current | pools, bogs, and other wetlands in hardwood forests |
| Butterfly | <i>Heracleides crespontes</i> | Eastern Giant Swallowtail | SR | none | S2 | G5 | Wake | Historical | primarily coastal in maritime forests or thickets; also in foothills and mountains near hoptree; |
| Butterfly | <i>Hesperia leonardus</i> | Leonard's Skipper | W2 | none | S2S3 | G4 | Wake | Historical | wooded borders and openings, brushy fields; host plants -- grasses |
| Butterfly | <i>Hesperia metea</i> | Cobweb Skipper | SR | none | S2 | G4 | Wake | Historical | dry barren sites, such as powerline clearings and pine/oak sandhills; host plants -- mainly |
| Vascular Plant | <i>Heteranthera pauciflora</i> | Atlantic Mud-plantain | SR-P | none | S1 | G3 | Wake | Current | open pools in brownwater or blackwater river floodplains |
| Vascular Plant | <i>Heteranthera reniformis</i> | Kidneyleaf Mud-plantain | W7 | none | S2? | G5 | Wake | Current | muddy shores, bars, pools |
| Reptile | <i>Heterodon simus</i> | Southern Hognose Snake | T | none | S1S2 | G2 | Wake | Historical | sandy woods, particularly pine-oak sandhills |
| Vascular Plant | <i>Hexastylis lewisii</i> | Lewis's Heartleaf | W1 | none | S3 | G3 | Wake | Current | mesic mixed hardwood forests, streamhead pocosin ecotones |
| Grasshopper or Katydid | <i>Hubbellia marginifera</i> | Pine Katydid | W3 | none | S3? | GNR | Wake | Current | pinewoods |
| Vascular Plant | <i>Humulus lupulus</i> var. <i>lupuloides</i> | Hops | W7 | none | S1? | G5T5 | Wake | Historical | alluvial forests and bottomlands |
| Moth | <i>Hydriomena divisaria</i> | Black-dashed Hydriomena Moth | W3 | none | S2S3 | G5 | Wake | Current | no habitat information |
| Moss | <i>Hygroamblystegium fluviatile</i> (syn. <i>Amblystegium fluviatile</i>) | Brookside Feather Moss | W7 | none | S2? | G5 | Wake | Current | wet, calcareous rocks |
| Dragonfly or Damselfly | <i>Hylogomphus abbreviatus</i> (syn. <i>Gomphus abbreviatus</i>) | Spine-crowned Clubtail | W2 | none | S3S4 | G4 | Wake | Current | rivers (Caswell, Chatham, Cumberland, Durham, Lee, Mecklenburg, Montgomery, |
| Dragonfly or Damselfly | <i>Hylogomphus apomyius</i> (syn. <i>Gomphus apomyius</i>) | Banner Clubtail | W3 | none | S3 | G3G4 | Wake | Current | spring-fed streams |
| Dragonfly or Damselfly | <i>Hylogomphus parvidens</i> (syn. <i>Gomphus parvidens</i>) | Piedmont Clubtail | W2 | none | S3 | G4 | Wake | Current | small woodland streams with sandy bottoms |
| Moth | <i>Idea scintillularia</i> | Diminutive Wave | W3 | none | SU | GNR | Wake | Current | unknown habitats |
| Vascular Plant | <i>Isoetes melanopoda</i> ssp. <i>silvatica</i> | Eastern Blackfoot Quillwort | W7 | none | S1S3 | G5TNR | Wake | Historical | Clay soils in low woods, seeps on sandstone or granitic rocks. |
| Vascular Plant | <i>Isoetes piedmontana</i> | Piedmont Quillwort | T | none | S2 | G4 | Wake | Current | granite flatrocks and diabase glades |
| Bird | <i>Ixobrychus exilis</i> | Least Bittern | SC | none | S3B | G4 | Wake | Current | fresh or brackish marshes [breeding evidence only] |
| Vascular Plant | <i>Juncus brachycarpus</i> | Whiteroot Rush | W7 | none | S2? | G4G5 | Wake | Historical | wet sandy soil |
| Vascular Plant | <i>Juncus secundus</i> | Nodding Rush | W7 | none | S1S2 | G5? | Wake | Historical | rock outcrops and glades |

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|---------------------------|---|----------------------------------|-----------|----------------|------------|-------------|--------|---------------|---|
| Reptile | <i>Kinosternon baurii</i> | Striped Mud Turtle | W3 | none | S3S4 | G4G5 | Wake | Current | various shallow wet places; ponds, pools, ditches |
| Freshwater Fish | <i>Lampetra aepyptera</i> | Least Brook Lamprey | T | none | S2 | G5 | Wake | Current | Tar and Neuse drainages |
| Reptile | <i>Lampropeltis elapsoides</i> | Scarlet Kingsnake | W1,W5 | none | S3 | G5 | Wake | Current | pine flatwoods, mesic pine-hardwood forests (Alamance, Beaufort, Bertie, Bladen, Chowan, Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee drainages |
| Freshwater Bivalve | <i>Lampsilis radiata</i> | Eastern Lampmussel | T | none | S3 | G5 | Wake | Current | |
| Bird | <i>Lanius ludovicianus</i> | Loggerhead Shrike | SC, W2 | none | S2S3B,S3N | G4 | Wake | Current | fields and pastures [breeding season only] |
| Mammal | <i>Lasiurus seminolus</i> | Seminole Bat | W2 | none | S3 | G5 | Wake | Current | forages over open areas, often over water (summer); mainly in southern half of the state |
| Freshwater Bivalve | <i>Lasmigona subviridis</i> | Green Floater | E | PT | S2 | G2G3 | Wake | Current | New, Watauga, Roanoke, Tar, Neuse and Yadkin-Pee Dee drainages |
| Vascular Plant | <i>Lathyrus venosus</i> | Smooth Peavine | W1 | none | S3 | G5 | Wake | Historical | rich bottomlands and rocky slopes, generally over mafic rocks |
| Vascular Plant | <i>Liatris secunda</i> | Sandhill Blazing-star | W7 | none | S2 | G4 | Wake | Current | sandhills |
| Vascular Plant | <i>Liatris squarrosa</i> | Earle's Blazing-star | SR-P | none | S2 | G4G5 | Wake | Current | diabase glades, open woods especially over mafic rocks; also loamy-sand soils in longleaf |
| Vascular Plant | <i>Lindera subcoriacea</i> | Bog Spicebush | SC-V | none | S2 | G3 | Wake | Current | streamhead pocosins, white cedar swamps, seepage slopes |
| Vascular Plant | <i>Lindernia monticola</i> | Flatrock Pimpernel | W1 | none | S2 | GNR | Wake | Current | seepages on granitic flatrocks and other rock outcrops |
| Moth | <i>Lithophane lemmeri</i> | Lemmer's Pinion | W3 | none | S1S3 | G3G4 | Wake | Current | cedar glades and Atlantic white cedar forests |
| Vascular Plant | <i>Lithospermum virginianum</i> | Virginia Marbleseed | W1 | none | S3 | G4 | Wake | Historical | sandhill woodlands, shell middens, barrens, glades or woodlands over mafic and calcareous |
| Bird | <i>Lophodytes cucullatus</i> | Hooded Merganser | W3 | none | S1B,S4N | G5 | Wake | Current | lakes and ponds, with dead trees for nesting [breeding evidence only] |
| Natural Community | Low Elevation Seep (Floodplain Subtype) | | | none | S2 | G4 | Wake | Current | null |
| Natural Community | Low Elevation Seep (Typic Subtype) | | | none | S3 | G3? | Wake | Current | null |
| Bird | <i>Loxia curvirostra</i> | Red Crossbill | SC | none | S2 | G5 | Wake | Historical | coniferous forests, preferably spruce-fir |
| Freshwater Fish | <i>Lythrurus matutinus</i> | Pinewoods Shiner | W5 | none | S3 | G3G4 | Wake | Current | Tar and Neuse drainages (endemic to North Carolina) |
| Vascular Plant | <i>Magnolia macrophylla</i> | Bigleaf Magnolia | SC-V | none | S2 | G5 | Wake | Current | rich deciduous forests |
| Sawfly, Wasp, Bee, or Ant | <i>Megachile ingenua</i> | a leafcutter bee | SR | none | SH | G2? | Wake | Historical | xeric sand habitats |
| Sawfly, Wasp, Bee, or Ant | <i>Megachile integra</i> | a leafcutter bee | SR | none | SH | G2G3 | Wake | Historical | no habitat preferences currently known (Bladen, Dare, Harnett, Moore, New Hanover, |
| Sawfly, Wasp, Bee, or Ant | <i>Megachile oenotherae</i> | a leafcutter bee | SR | none | SH | G1G3 | Wake | Historical | dunes, xeric pine savannas, disturbed areas (Craven, Moore, Wake) |
| Sawfly, Wasp, Bee, or Ant | <i>Megachile rubi</i> | a leafcutter bee | W3 | none | S2S3 | G3 | Wake | Historical | documented on Crataegus, Rubus, and Senecio |
| Grasshopper or Katydid | <i>Melanoplus impudicus</i> | Immodest Spur-throat Grasshopper | W3 | none | SH | G4G5 | Wake | Current | barrens and glades (Cherokee*, Richmond*, Wake*) |

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|---------------------------|--|--------------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Natural Community | Mesic Mixed Hardwood Forest (Piedmont Subtype) | | | none | S4 | G3G4 | Wake | Current | null |
| Vascular Plant | Micranthes pensylvanica | Swamp Saxifrage | E | none | S1 | G5 | Wake | Historical | bogs, seeps |
| Vascular Plant | Monotropa uniflora | Indian-pipe | W7 | none | S2S4 | GNR | Wake | Current | moist to dry forests |
| Vascular Plant | Monotropis odorata | Sweet Pinesap | SR-O | none | S3 | G3 | Wake | Current | dry forests and bluffs |
| Grasshopper or Katydid | Montezumina modesta | Modest Katydid | W3 | none | SU | GU | Wake | Historical | pinewoods and other habitats |
| Mammal | Myotis austroriparius | Southeastern Bat | SC | none | S2 | G4 | Wake | Current | roosts in buildings, hollow trees; forages near water; mainly in the Coastal Plain |
| Mammal | Myotis lucifugus | Little Brown Bat | E | none | S2 | G3G4 | Wake | Historical | roosts in buildings (summer), in caves and mines (winter) |
| Vascular Plant | Najas gracillima | Slender Waternymph | W7 | none | S2 | G4G5 | Wake | Historical | pools and lakes |
| Vascular Plant | Nanopanax trifolius | Dwarf Ginseng | W1 | none | S3 | G5 | Wake | Current | cove forests, northern hardwoods, other rich forests |
| Amphibian | Necturus lewisi | Neuse River Waterdog | T | T | S2 | G2 | Wake | Current | rivers and large streams in Neuse and Tar drainages (endemic to North Carolina) |
| Vascular Plant | Nelumbo lutea | American Lotus | W7 | none | S2 | G4 | Wake | Current | ponds, slow streams, natural lakes, estuarine rivers |
| Grasshopper or Katydid | Neoconocephalus velox | Swift-flying Cone Head Katydid | W3 | none | SU | GNR | Wake | Current | shrubby undergrowth in pinewoods; no locality information |
| Mammal | Neogale frenata (syn. Mustela frenata) | Long-tailed Weasel | W3 | none | S3 | G5 | Wake | Current | forests, brushy areas |
| Vascular Plant | Neottia bifolia | Southern Twayblade | W1 | none | S3 | G5 | Wake | Current | moist hardwood forest, swamps, wet woods with acidic soils |
| Dragonfly or Damselfly | Neurocordulia alabamensis | Alabama Shadowdragon | W3 | none | S3? | G5 | Wake | Current | small creeks in forested regions, often where sandy and with low flow |
| Dragonfly or Damselfly | Neurocordulia molesta | Smoky Shadowdragon | W3 | none | S3? | G4 | Wake | Current | rivers |
| Dragonfly or Damselfly | Neurocordulia virginienis | Cinnamon Shadowdragon | W3 | none | S2? | G4 | Wake | Current | large rivers |
| Sawfly, Wasp, Bee, or Ant | Nomada indusata | a cuckoo bee | W3 | none | SH | GNR | Wake | Historical | no habitat preferences available |
| Sawfly, Wasp, Bee, or Ant | Nomada minima | a cuckoo bee | W3 | none | SH | GNR | Wake | Historical | no habitat preferences available |
| Sawfly, Wasp, Bee, or Ant | Nomada tyrrellensis | a cuckoo bee | SR | none | SH | GNR | Wake | Historical | no habitat preferences currently known |
| Freshwater Fish | Noturus furiosus | Carolina Madtom | E | E | S2 | G2 | Wake | Historical | Tar and Neuse drainages (endemic to North Carolina) |
| Reptile | Ophisaurus attenuatus longicaudus | Eastern Slender Glass Lizard | SC | none | S1 | G5T5 | Wake | Current | old fields, wooded edges, open woods |
| Vascular Plant | Panax quinquefolius | Ginseng | SR-O | none | S3 | G3G4 | Wake | Current | cove forests, other rich forests |
| Freshwater Fish | Paranotropis volucellus | Mimic Shiner | T | none | S2 | G5 | Wake | Historical | New, French Broad, Little Tennessee, Tar, and Neuse drainages |
| Vascular Plant | Parthenium integrifolium var. mabryanum | Mabry's Wild Quinine | W1 | none | S3 | G5T3 | Wake | Historical | savannas, pocosin edges, upland pine-oak woods |

| Taxonomic Group | Scientific Name | Common Name | NC Status | Federal Status | State Rank | Global Rank | County | County Status | Habitat Comment |
|-------------------|---|----------------------------|-----------|----------------|------------|-------------|--------|---------------|---|
| Vascular Plant | <i>Paspalum fluitans</i> | Horsetail Crown Grass | SR-P | none | S1 | G5 | Wake | Current | drawdown riverbanks and seepage areas in swamp forests |
| Vascular Plant | <i>Pellaea atropurpurea</i> | Purple-stem Cliff-brake | W1 | none | S3 | G5 | Wake | Historical | limestone outcrops |
| Liverwort | <i>Pellia appalachiana</i> | A Liverwort | W7 | none | S1 | G4 | Wake | Historical | on moist rock outcrops, usually near waterfalls, streams, or pools |
| Mammal | <i>Perimyotis subflavus</i> | Tricolored Bat | E | PE | S3 | G3G4 | Wake | Current | roosts in clumps of leaves (mainly in summer), caves, rock crevices, and other dark and |
| Vascular Plant | <i>Persicaria densiflora</i> (syn. <i>Persicaria glabra</i>) | Dense-flower Smartweed | W1 | none | S3 | G5 | Wake | Current | Swamp forests |
| Bird | <i>Peucaea aestivalis</i> | Bachman's Sparrow | SC | none | S3B,S2N | G3 | Wake | Historical | open longleaf pine forests, old fields [breeding evidence only] |
| Natural Community | Piedmont Alluvial Forest | | | none | S4 | G4 | Wake | Current | null |
| Natural Community | Piedmont Boggy Streamhead | | | none | S2 | G2G3 | Wake | Current | null |
| Natural Community | Piedmont Bottomland Forest (High Subtype) | | | none | S2 | G3G4 | Wake | Current | null |
| Natural Community | Piedmont Bottomland Forest (Typic Low Subtype) | | | none | S2 | G2? | Wake | Current | null |
| Natural Community | Piedmont Cliff (Acidic Subtype) | | | none | S2 | G2? | Wake | Current | null |
| Natural Community | Piedmont Levee Forest (Typic Subtype) | | | none | S3S4 | G3G4 | Wake | Current | null |
| Natural Community | Piedmont Monadnock Forest (Typic Subtype) | | | none | S3 | G3G4 | Wake | Current | null |
| Natural Community | Piedmont/Coastal Plain Heath Bluff | | | none | S3 | G3 | Wake | Current | null |
| Natural Community | Piedmont/Mountain Semipermanent Impoundment | | | none | S4 | G4G5 | Wake | Current | null |
| Natural Community | Piedmont/Mountain Semipermanent Impoundment | | | none | S4 | G4? | Wake | Current | null |
| Natural Community | Piedmont/Mountain Semipermanent Impoundment | | | none | S4 | G4 | Wake | Current | null |
| Vascular Plant | <i>Platanthera blephariglottis</i> | Small White-fringed Orchid | W7 | none | S2 | G5T4T5 | Wake | Historical | bogs or depressions |
| Vascular Plant | <i>Polygala senega</i> | Seneca Snakeroot | SC-V | none | S2 | G4G5 | Wake | Current | woodlands and in thin soil around outcrops, usually over mafic or calcareous rocks |
| Vascular Plant | <i>Polygonum erectum</i> | Erect Knotweed | W7 | none | S1S2 | G5 | Wake | Historical | open places |
| Butterfly | <i>Pontia protodice</i> | Checkered White | SR | none | S1S2 | G4 | Wake | Current | fields, pastures; host plants -- mustard species (Family Brassicaceae) |
| Lichen | <i>Porpidia macrocarpa</i> | Big-fruited Boulder Lichen | W7 | none | S3 | G4 | Wake | Current | rocky summits, granitic flatrocks |
| Vascular Plant | <i>Portulaca smallii</i> | Small's Portulaca | T | none | S2 | G3 | Wake | Current | granite flatrocks and diabase glades |
| Amphibian | <i>Pseudacris nigrita</i> | Southern Chorus Frog | SC | none | S2 | G5 | Wake | Historical | ditches, Carolina bays, and other temporary shallow pools and ponds |
| Vascular Plant | <i>Pseudognaphalium helleri</i> | Heller's Rabbit-Tobacco | E | none | S2S3 | G4G5T3T4 | Wake | Current | dry woodlands and openings (especially over mafic rocks), longleaf pine sandhills |

| Taxonomic Group | Scientific Name | Common Name | NC Status | Federal Status | State Rank | Global Rank | County | County Status | Habitat Comment |
|------------------------|---|-------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Vascular Plant | <i>Pycnanthemum virginianum</i> | Virginia Mountain-mint | SR-P | none | S1? | G5 | Wake | Historical | forests, woodland borders, bogs |
| Vascular Plant | <i>Pyrola americana</i> | American Shinleaf | W1 | none | S2S3 | G5 | Wake | Historical | forests |
| Vascular Plant | <i>Quercus bicolor</i> | Swamp White Oak | W1 | none | S2 | G5 | Wake | Historical | upland swamp forests |
| Vascular Plant | <i>Quercus muehlenbergii</i> | Chinquapin Oak | W1 | none | S2 | G5 | Wake | Current | calcareous forsts and bluffs |
| Bird | <i>Rallus elegans</i> | King Rail | W1,W3 | none | S3B,S3N | G4 | Wake | Current | fresh to slightly brackish marshes [breeding evidence only] |
| Vascular Plant | <i>Rhus michauxii</i> | Michaux's Sumac | E | E | S2 | G2G3 | Wake | Current | sandhills, sandy forests, woodland, woodland edges |
| Vascular Plant | <i>Ruellia humilis</i> | Low Wild-petunia | T | none | S1 | G5 | Wake | Current | diabase glades |
| Vascular Plant | <i>Ruellia purshiana</i> | Pursh's Wild-petunia | SC-V | none | S2 | G3 | Wake | Historical | glades and woodlands, mostly over mafic or calcareous rocks |
| Vascular Plant | <i>Rumex altissimus</i> | Pale Dock | W7 | none | S2? | G5 | Wake | Historical | low wet places |
| Vascular Plant | <i>Sabatia quadrangula</i> | Four-angle Sabatia | W7 | none | S2 | G4G5 | Wake | Current | moist to mesic grassy glades, woodland borders, powerline clearings, often with |
| Vascular Plant | <i>Sagittaria weatherbiana</i> | Grassleaf Arrowhead | E | none | S2 | G3G4 | Wake | Historical | fresh to slightly brackish marshes, streams, swamps, and pond margins |
| Moth | <i>Schizura matheri</i> | a new Prominent Moth | SR | none | S1S2 | GU | Wake | Current | unknown |
| Mammal | <i>Sciurus niger</i> (syn. <i>Sciurus niger niger</i>) | Eastern Fox Squirrel | W2 | none | S3 | G5 | Wake | Current | open forests, mainly longleaf pine/scrub oak |
| Vascular Plant | <i>Scutellaria leonardii</i> | Shale-barren Skullcap | E | none | S1 | G5T5 | Wake | Historical | diabase glades |
| Vascular Plant | <i>Scutellaria nervosa</i> | Veined Skullcap | E | none | S1 | G5 | Wake | Current | alluvial forests |
| Vascular Plant | <i>Scutellaria ovata</i> ssp. <i>bracteata</i> | A Heartleaf Skullcap | W7 | none | S2? | G5TNR | Wake | Current | rich woods on circumneutral soil |
| Vascular Plant | <i>Scutellaria serrata</i> | Showy Skullcap | W1 | none | S2S3 | G4G5 | Wake | Current | deciduous forests |
| Vascular Plant | <i>Silene caroliniana</i> var. <i>pennsylvanica</i> | Sticky Catchfly | W7 | none | S1S2 | G5T4T5 | Wake | Current | open woodlands with sandy or sandy-loamy soils |
| Vascular Plant | <i>Silphium terebinthinaceum</i> | Prairie Dock | SR-P | none | S2 | G4G5 | Wake | Historical | diabase glades, other open or semi-open sites over mafic rock |
| Amphibian | <i>Siren lacertina</i> | Greater Siren | W3 | none | S3 | G5 | Wake | Current | lakes, ponds, and streams, especially where muddy or with weedy vegetation |
| Vascular Plant | <i>Solidago radula</i> | Western Rough Goldenrod | E | none | S1 | G5? | Wake | Historical | dry woodlands over mafic rocks |
| Vascular Plant | <i>Solidago salicina</i> (syn. <i>Solidago patula</i> var. <i>strictula</i>) | Round-leaved Goldenrod | W1 | none | S2? | G5T5 | Wake | Current | seeps, pocosins, peaty places |
| Dragonfly or Damselfly | <i>Somatochlora provocans</i> | Treetop Emerald | W3 | none | S3? | G4 | Wake | Current | small forested seeps and pools, perhaps very small streams |
| Butterfly | <i>Speyeria diana</i> | Diana Fritillary | W2 | none | S3S4 | G2G3 | Wake | Historical | montane and foothill forest edges and openings; host plants – violets (<i>Viola</i>) |
| Moss | <i>Sphagnum subsecundum</i> | Orange Peatmoss | SR-P | none | S1 | G5 | Wake | Current | bogs and rock ledges |

| Taxonomic Group | Scientific Name | Common Name | NC Status | Federal Status | State Rank | Global Rank | County | County Status | Habitat Comment |
|------------------------|---|----------------------------|-----------|----------------|------------|-------------|--------|---------------|--|
| Moth | <i>Sphingicampa bicolor</i> | Honey Locust Moth | W3 | none | S3? | G5 | Wake | Current | on honey locust (<i>Gleditsia</i>) |
| Lichen | <i>Sporodophoron americanum</i> | White Spot Lichen | W7 | none | S3S4 | GNR | Wake | Current | bark of hardwood trees, especially chestnut oak |
| Freshwater Bivalve | <i>Strophitus undulatus</i> | Creeper | T | none | S3 | G5 | Wake | Current | Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee, Catawba, Broad, and French Broad |
| Dragonfly or Damselfly | <i>Stylurus amnicola</i> | Riverine Clubtail | W3 | none | S3 | G4 | Wake | Current | rivers |
| Dragonfly or Damselfly | <i>Stylurus laurae</i> | Laura's Clubtail | W1 | none | S2S3 | G4 | Wake | Historical | medium-size streams with clean sandy substrate |
| Vascular Plant | <i>Symphyotrichum concinnum</i> | Narrow-leaved Smooth Aster | E | none | S2 | G5T4 | Wake | Historical | forests, woodland borders especially over mafic rocks |
| Vascular Plant | <i>Thermopsis mollis</i> | Appalachian Golden-banner | SR-T | none | S2 | G3G4 | Wake | Current | dry ridges and open woodlands |
| Butterfly | <i>Thorybes confusus</i> (syn. <i>Thorybes confusus</i> , <i>Cecropterus confusus</i>) | Confused Cloudywing | W3 | none | S3S4 | G4 | Wake | Current | dry woodland borders and openings, brushy fields; host plants -- legumes |
| Vascular Plant | <i>Tilia americana</i> var. <i>americana</i> | American Basswood | W7 | none | S1? | G5T5 | Wake | Historical | rich cove forests |
| Moss | <i>Tortula plinthobia</i> | A Chain-teeth Moss | SR-O | none | S1? | G4G5 | Wake | Historical | calcareous rocks, concrete or mortared walls |
| Freshwater Bivalve | <i>Toxolasma pullus</i> | Savannah Lilliput | E | none | S2 | G2 | Wake | Current | Cape Fear, Lumber, and Yadkin-Pee Dee drainages |
| Vascular Plant | <i>Tradescantia hirsuticaulis</i> | Hairy Spiderwort | W7 | none | S2 | G5 | Wake | Current | dry rocky woodlands and rock outcrops |
| Vascular Plant | <i>Tradescantia virginiana</i> | Virginia Spiderwort | SR-O | none | S2S3 | G5 | Wake | Current | rich woods on circumneutral soils |
| Vascular Plant | <i>Trichostema setaceum</i> | Narrowleaf Bluecurls | SR-T | none | S2 | G5 | Wake | Current | dry woodlands, granite flatrocks |
| Vascular Plant | <i>Trifolium reflexum</i> | Buffalo Clover | T | none | S1S2 | G3G4 | Wake | Current | open woods and clearings |
| Vascular Plant | <i>Trillium pusillum</i> var. 4 | Carolina Least Trillium | SR-T | none | S1 | G4TNR | Wake | Current | swampy forests, bottomland forests along small streams |
| Vascular Plant | <i>Tsuga canadensis</i> | Eastern Hemlock | W5 | none | S4S5 | G4G5 | Wake | Current | moist soils |
| Natural Community | Ultramafic Outcrop Barren (Piedmont Subtype) | | | none | S1 | G1 | Wake | Current | null |
| Vascular Plant | <i>Vaccinium virgatum</i> | Small-flower Blueberry | W7 | none | S1S2 | G4 | Wake | Current | pocosins, blackwater swamps, mesic pine flatwoods, sandhill seeps |
| Freshwater Bivalve | <i>Venustaconcha constricta</i> | Notched Rainbow | T | none | S3 | G3 | Wake | Current | Roanoke, Tar, Neuse, Yadkin-Pee Dee, and Catawba drainages |
| Vascular Plant | <i>Verbena hastata</i> | Blue Vervain | W7 | none | S2S3 | G5 | Wake | Current | marshes, bogs, and fields |
| Vascular Plant | <i>Verbesina virginica</i> var. <i>virginica</i> (syn. <i>Verbesina virginica</i>) | Frostweed | W7 | none | S2? | G5?T5? | Wake | Current | moist forests, especially over calcareous rocks |
| Vascular Plant | <i>Veronicastrum virginicum</i> | Culver's-root | W7 | none | S2? | G4 | Wake | Current | bogs, wet meadows, dry soils over mafic rocks |
| Bird | <i>Vireo gilvus</i> | Warbling Vireo | SR | none | S2B | G5 | Wake | Current | groves of hardwoods along rivers and streams [breeding evidence only] |
| Reptile | <i>Virginia valeriae</i> | Smooth Earthsnake | W2 | none | S3 | G5 | Wake | Current | deciduous or mixed woods, usually in mesic soils |

| Taxonomic Group | Scientific Name | Common Name | NC Status | Federal Status | State Rank | Global Rank | County | County Status | Habitat Comment |
|-------------------|---|----------------------|-----------|----------------|------------|-------------|--------|---------------|---|
| Animal Assemblage | Waterbird Colony | Waterbird Colony | | none | S3 | GNR | Wake | Current | null |
| Moss | Weissia muhlenbergiana (syn. Weissia muehlenbergiana) | A Moss | W7 | none | S2? | G5 | Wake | Current | soil among grasses, roadsides |
| Mammal | Zapus hudsonius | Meadow Jumping Mouse | SR | none | S1 | G5 | Wake | Historical | open moist fields and brushy places, usually near water |

APPENDIX C

NOTICE OF DRY-CLEANING SOLVENT REMEDIATION

NOTICE OF DRY-CLEANING SOLVENT REMEDIATION

Property Owner: G.T.T. Corporation
Recorded in Book _____, Page _____
Associated plat recorded in Plat Book _____, Page _____

This documentary component of a Notice of Dry-Cleaning Solvent Remediation (hereinafter "Notice") is hereby recorded on this ____ day of _____, 20____ by G.T.T. Corporation (hereinafter "Property Owner"). The survey plat component of the Notice is being recorded concurrently with this documentary component. The real property (hereinafter "Property") which is the subject of this Notice is located at 682 Cary Towne Boulevard, Cary, Wake County, North Carolina, Parcel Identification Number (PIN) 0763-97-5022.

The Property is contaminated with dry-cleaning solvent, as defined at North Carolina General Statutes (hereinafter "N.C.G.S."), Section (hereinafter "§") 143-215.104B(b)(9) and other contaminants. This Notice has been approved by the North Carolina Department of Environmental Quality, or its successor in function (hereinafter "DEQ") under the authority of the Dry-Cleaning Solvent Cleanup Act of 1997, as amended, N.C.G.S. § 143-215.104A *et seq.* (hereinafter "DSCA"), and is required to be filed in the Register of Deeds' Office in the county or counties in which the land is located, pursuant to NCGS § 143-215.104M.

Soil and groundwater at the Property are contaminated with dry-cleaning solvents associated with dry-cleaning operations at the former Avalon Cleaners (DSCA Site DC920037) located at 686 Cary Towne Boulevard, Cary. Dry-cleaning operations were conducted on the Property from approximately 1985 to 2012.

Pursuant to N.C.G.S. § 143-215.104M, this Notice is being filed in order to reduce or eliminate the danger to public health or the environment posed by the Property. Attached hereto as **Exhibit A** is a reduction, to 8 1/2" x 11", of the survey plat component of the Notice required by N.C.G.S. § 143-215.104M. The survey plat has been prepared and certified by a professional land surveyor and meets the requirements of G.S. 47-30, and contains the following information required by N.C.G.S. § 143-215.104M:

(1) A description of the location and dimensions of the areas of potential environmental concern with respect to permanently surveyed benchmarks; and

(2) The type, location and quantity of regulated dry-cleaning solvent contamination and other contaminants known to exist on the Property.

Attached hereto as **Exhibit B**, is a legal description of the Property that would be sufficient as a description in an instrument of conveyance.

Pursuant to NCGS § 143-215.104M, a certified copy of this Notice must be filed within 15 days of receipt of DEQ's approval of the Notice or the effective date of the dry-cleaning solvent remediation agreement, whichever is later. Pursuant to NCGS § 143-215.104M, the copy of the Notice certified by DEQ must be recorded in the grantor index under the names of the owners of the land.

LAND-USE RESTRICTIONS

NCGS § 143-215.104M requires that the Notice identify any restrictions on the current and future use of the Property that are necessary or useful to maintain the level of protection appropriate for the designated current or future use of the Property and that are designated in the dry-cleaning remediation agreement. The restrictions shall remain in force in perpetuity unless canceled by the Secretary of DEQ, or his/her designee, after the hazards have been eliminated, pursuant to NCGS §143-215.104M. Those restrictions are hereby imposed on the Property, and are as follows:

1. Without prior written approval from DEQ, the Property, as shown on Exhibit A, shall not be used for:
 - a. childcare centers, elementary, middle, or high schools; or elder care facilities. Exceptions to this restriction include use of the property for technical or adult education institutions; technical training centers; or tutorial institutions.
 - b. mining or extraction of coal, oil, gas or any mineral or non-mineral substances.
2. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools that use groundwater, or construction or excavation activities that encounter or expose groundwater) may occur in “**Area A**” of the Property, as shown on Exhibit A, without prior approval of DEQ.
3. Soil in “**Area B**” of the Property, as shown on Exhibit A, may not be removed or disturbed unless approved in writing in advance by DEQ or its successor in function, except for routine landscape maintenance and emergency utility repair. In the event of emergency utility repair, DEQ shall be given written notice of any such emergency repair no later than the next business day, and further related assessment and remedial measures may be required.
4. Except for routine maintenance, no construction activities or change in property use that cause or create an unacceptable human health risk from vapor intrusion may occur in “**Area C**” of the Property, as shown on Exhibit A, without prior approval of DEQ. These activities include but are not limited to: construction of new buildings, removal and construction of part of a building, construction of sub-grade structures that encounter contaminated soil or places building users in close proximity to contaminated groundwater, change from non-residential to residential property, change in tenant space usage, and addition of residential property use on higher floors.

5. Structural modifications within “**Area C**” that may cause or create an increased risk from vapor intrusion require the property owner to demonstrate to the satisfaction of DEQ that the indoor air in the structure does not pose an unacceptable risk to the occupants following modifications. These modifications include but are not limited to: modification or replacement of heating, ventilation or air conditioning (HVAC) systems, removal or replacement of the building slab, installation of multiple conduits or piping through the building slab, modifications to building walls or ceilings that may change air flow.
6. No activities that cause or create an increase in infiltration (for example, removal or demolition of materials such as asphalt, concrete, buildings, or other structures that by their use and nature minimize infiltration of rain or water runoff into potentially contaminated soil) may occur in “**Area D**” of the Property, as shown on Exhibit A, without prior approval of DEQ.
7. In January of each year, on or before January 31st, the owner of any portion of the Property shall submit a notarized Annual Certification of Land-Use Restrictions to DEQ certifying that this Notice remains recorded at the Register of Deeds’ office, and that the land-use restrictions are being complied with.
8. No person conducting environmental assessment or remediation at the Property or involved in determining compliance with applicable land-use restrictions, at the direction of, or pursuant to a permit or order issued by DEQ may be denied access to the Property for the purpose of conducting such activities.
9. The owner of any portion of the Property shall cause the instrument of any sale, lease, grant, or other transfer of any interest in the property to include a provision expressly requiring the lessee, grantee, or transferee to comply with this Notice. The failure to include such a provision shall not affect the validity or applicability of any land-use restriction in this Notice.

RIGHT OF ENTRY

The property owner grants and conveys to DEQ, its agents, contractors, and employees, and any person performing pollution remediation activities under the direction of DEQ, access at reasonable times and under reasonable security requirements to the Property to determine and monitor compliance with the land-use restrictions set forth in this Notice. Such investigations and actions are necessary by DEQ to ensure that use, occupancy, and activities of and at the Property are consistent with the land-use restrictions and to ensure that the structural integrity and continued effectiveness of any engineering controls (if appropriate) described in the Notice are maintained. Whenever possible, at least 48 hours advance notice will be given to the Property Owner prior to entry. Advance notice may not always be possible due to conditions such as response time to complaints and emergency situations.

REPRESENTATIONS AND WARRANTIES

The Property Owner hereby represents and warrants to the other signatories hereto:

- i) that the Property Owner is the sole owner of the Property; **or** that the Property Owner has provided to DEQ the names of all other persons that own an interest in or hold an encumbrance on the Property and have notified such persons of the Property Owner's intention to enter into this Notice;
- ii) that the Property Owner has the power and authority to enter into this Notice, to grant the rights and interests herein provided and to carry out all obligations hereunder; and
- iii) that this Notice will not materially violate or contravene or constitute a material default under any other agreement, document or instrument to which the Property Owner is a party or by which the Property Owner may be bound or affected.

ENFORCEMENT

The above land-use restrictions shall be enforceable without regard to lack of privity of estate or contract, lack of benefit to particular land, or lack of any property interest in particular land. The land-use restrictions shall be enforced by any owner of the Property. The land-use restrictions may also be enforced by DEQ through the remedies provided in NCGS § 143-215.104P or by means of a civil action; by any unit of local government having jurisdiction over any part of the Property; and by any person eligible for liability protection under the DSCA who will lose liability protection if the restrictions are violated. Any attempt to cancel any or all of this Declaration without the approval of the Secretary of DEQ (or its successor in function), or his/her delegate, shall be subject to enforcement by DEQ to the full extent of the law. Failure by any party required or authorized to enforce any of the above restrictions shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

If a land-use restriction set out in this Notice required under NCGS § 143-215.104.M is violated, the owner of the Property at the time the land-use restriction is violated, the owner's successors and assigns, and the owner's agents who direct or contract for alteration of the contamination site in violation of a land-use restriction shall be liable for remediation of all contaminants to unrestricted use standards.

FUTURE SALES, LEASES, CONVEYANCES AND TRANSFERS

When any portion of the Property subject to this Notice is sold, leased, conveyed or transferred, the deed or other instrument of transfer shall contain in the description section, in no smaller type than that used in the body of the deed or instrument, (1) a statement that the property has been contaminated with dry-cleaning solvent and, if appropriate, cleaned up under the Act and (2) a reference by book and page to the recordation of this Notice.

The Property Owner shall notify DEQ within fourteen (14) calendar days of the effective date of any conveyance, grant, gift, or other transfer, whole or in part, of the Property Owner's interest in the Property. This notification shall include the name, business address and phone number of the transferee and the expected date of transfer.

The Property Owner shall notify DEQ within thirty (30) days following the petitioning or filing of any document by any person initiating a rezoning of the Property that would change the base zone of the Property.

This provision shall not apply to leases that do not provide for the right to take actions that would violate the prohibitions and restrictions of this Notice.

PROPERTY OWNER SIGNATURE

IN WITNESS WHEREOF, Property Owner has caused this instrument to be duly executed this ___ day of _____, 20__.

G.T.T. Corporation

By:

Name of contact

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public of the county and state aforesaid, certify that _____ personally came before me this day and acknowledged that he/she is a Member of G.T.T. Corporation, a North Carolina corporation, and its Manager, and that by authority duly given and as the act of the company, the foregoing Notice of Dry-Cleaning Solvent Remediation was signed in its name by him.

WITNESS my hand and official stamp or seal, this ___ day of _____, 20__.

Name typed or printed
Notary Public

My Commission expires: _____
[Stamp/Seal]

APPROVAL AND CERTIFICATION

The foregoing Notice of Dry-Cleaning Solvent Remediation is hereby approved and certified.

North Carolina Department of Environmental Quality

By:

William F. Hunneke
Chief, Superfund Section
Division of Waste Management

Date

ATTACHMENT

LIMITED POWER OF ATTORNEY

I _____ “Property Owner”, do hereby grant a limited power of attorney to DEQ and to DEQ’s independent contractors, as follows:

DEQ and DEQ’s independent contractors shall have the limited power of attorney to record this Notice, including its documentary and survey plat components, in accordance with N.C.G.S. § 143-215.104M on my “Property Owner” behalf. This limited power of attorney shall terminate upon completion of the recordation of the Notice.

Signature of Property Owner _____

Dated this ____ day of _____, 20__.

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public, do hereby certify that _____ personally appeared before me this day and signed this “Limited Power of Attorney”.

WITNESS my hand and official stamp or seal, this ____ day of _____, 20__.

Name typed or printed
Notary Public

My Commission expires: _____
[Stamp/Seal]

EXHIBIT A
REDUCTION OF SURVEY PLAT

DEED ACKNOWLEDGEMENT

APPROVED FOR THE PURPOSES OF N.C.G.S. 143-215.104M.

WILLIAM F. HUNNEKE
CHIEF, SUPERFUND SECTION
DIVISION OF WASTE MANAGEMENT

STATE
COUNTY

I, A NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT

DID PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE DAY OF, 2025

NOTARY PUBLIC (SIGNATURE) (OFFICIAL SEAL)

MY COMMISSION EXPIRES:

OWNER ACKNOWLEDGEMENT

I ACKNOWLEDGE THAT I HAVE FULL AUTHORITY TO LEGALLY EXECUTE A DEED FOR THIS PROPERTY.

SIGNATURE DATE

STATE
COUNTY

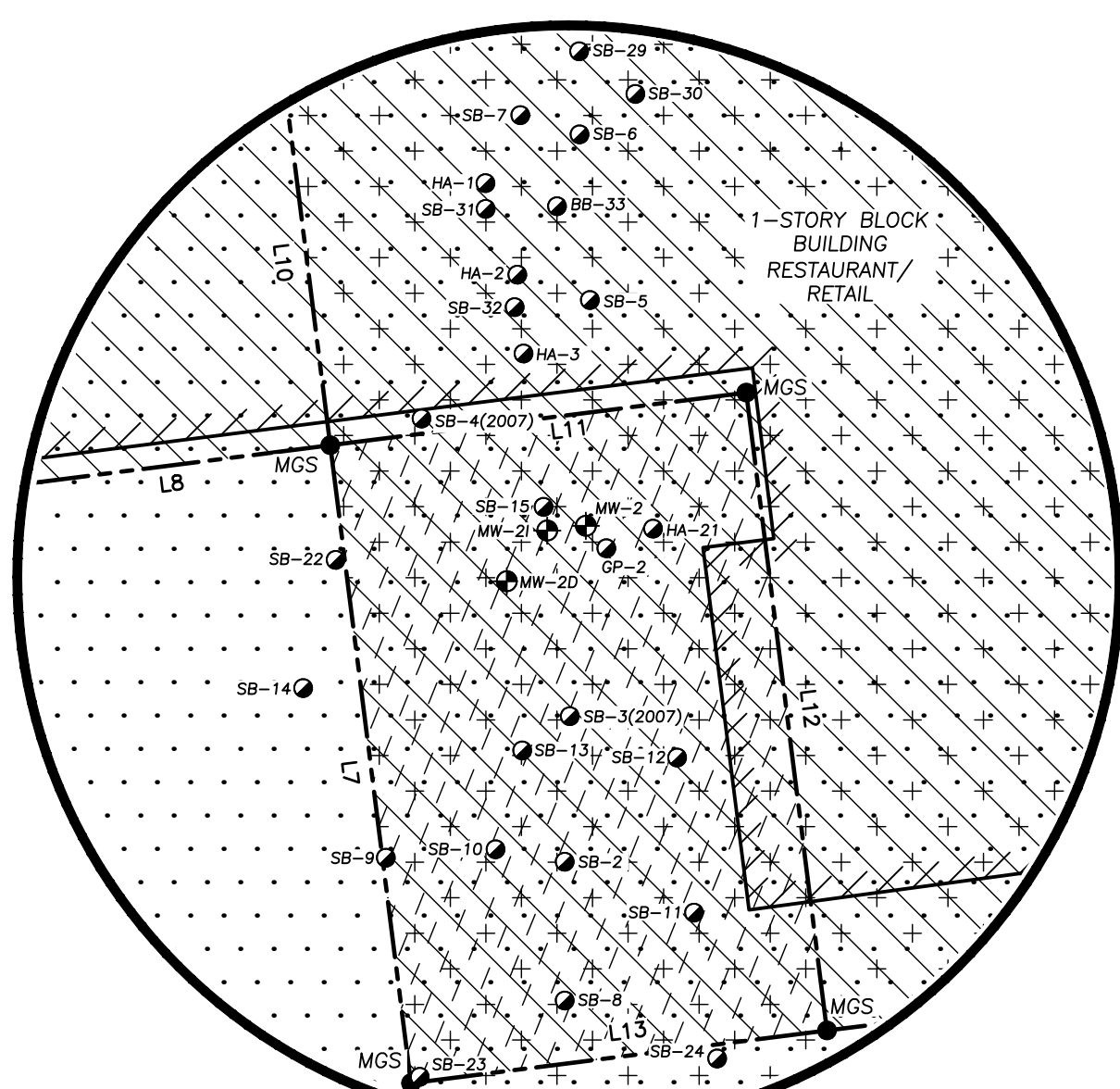
I, A NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT

DID PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE DAY OF, 2025

NOTARY PUBLIC (SIGNATURE) (OFFICIAL SEAL)

MY COMMISSION EXPIRES:

DETAIL "A" 1"=20'



GENERAL NOTES

- 1. THIS IS AN EXHIBIT TO A NOTICE OF DRY-CLEANING SOLVENT REMEDIATION. THIS IS NOT A SUBDIVISION.
2. AREAS COMPUTED BY THE COORDINATE METHOD.
3. COORDINATES SHOWN ON THIS PLAN ARE NC STATE PLANE GRID COORDINATES.
4. DISTANCES SHOWN ON THE MAP ARE HORIZONTAL GROUND DISTANCES UNLESS NOTED OTHERWISE.
5. ELEVATIONS SHOWN ARE BASED ON NAVD 88 AND ARE DERIVED FROM MULTIPLE GNSS OBSERVATIONS OF SITE BENCHMARKS. SEE SITE BENCHMARK TABLE BELOW.
6. EXISTING CORNERS MEASURED TO THE OUTSIDE DIAMETER.
7. PROPERTY OWNER INFORMATION OBTAINED FROM WAKE COUNTY GEOGRAPHIC INFORMATION SYSTEM.
8. THE SUBJECT PROPERTY IS SUBJECT TO ALL RIGHTS OF WAY, EASEMENTS, COVENANTS, RESTRICTIONS, AND APPURTENANCES OF RECORD.
9. THE SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA PER FEMA F.I.R.M. MAP NO. 3720076300R, DATED JULY 19, 2022.
10. THE AREAS AND TYPE OF CONTAMINATION DEPICTED UPON THE MAP ARE APPROXIMATIONS DERIVED FROM THE BEST AVAILABLE INFORMATION AT THE TIME OF FILING.
11. SOIL BORING LOCATIONS SHOWN HEREON WERE NOT A PART OF THE FIELD SURVEY. THEY WERE PROVIDED BY ATC ASSOCIATES OF NORTH CAROLINA, P.C. IN A MAP TITLED "FIGURE III SOIL QUALITY MAP" DATED 11/23. NO SPATIAL RELATIONSHIP CAN BE MADE BETWEEN THE SOIL BORING LOCATIONS AND THE OTHER FEATURES SHOWN HEREON.

SITE BENCHMARKS

- BM1 MAG NAIL SET IN CONCRETE SIDEWALK
ELEVATION = 479.17
BM2 MAG NAIL SET IN CONCRETE SIDEWALK
ELEVATION = 487.42

REVIEW OFFICER CERTIFICATE

STATE OF NORTH CAROLINA
COUNTY OF WAKE

I, REVIEW OFFICER OF WAKE COUNTY, CERTIFY THAT THE MAP OR PLAN TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER DATE

NCGS 47-30 (d) CERTIFICATE

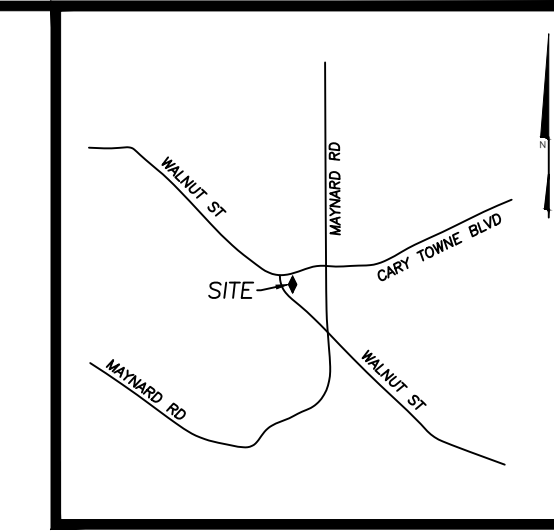
- 1. E. MATTHEW CASH, CERTIFY THAT THIS PLAN WAS DRAWN BY ME FROM AN ACTUAL SURVEY PERFORMED BY ME; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN THE REFERENCES SHOWN HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1/90,474; THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH NCGS 47-30 AS AMENDED.
2. NCAC 56.1607 GPS SURVEY CERTIFICATE
1. E. MATTHEW CASH, CERTIFY THAT THIS MAP WAS DRAWN BY ME FROM AN ACTUAL GPS SURVEY PERFORMED BY ME AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:
1. CLASS OF SURVEY: A
2. POSITIONAL ACCURACY: 0.04'
3. TYPE OF GPS FIELD PROCEDURE: NETWORK RTK
4. DATES OF SURVEY: NOVEMBER 19, 2024
5. DATUM/EPOCH: NAD 83 2011 (2010.00)
6. PUBLISHED/FIXED-CONTROL USE: NC RTN (CORS)
7. GEOD MODEL: IS
8. COMBINED GRID FACTOR: 0.99989579
9. UNITS: US SURVEY FOOT

NCGS 47-30 (XII) CERTIFICATE

- 1. E. MATTHEW CASH, HEREBY CERTIFY THAT:
C.1. THAT THE SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND OR ONE OR MORE EXISTING EASEMENTS AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET. FOR THE PURPOSES OF THIS SUBSECTION, AN "EXISTING PARCEL" OR "EXISTING EASEMENT" IS AN AREA OF LAND DESCRIBED IN A SINGLE, LEGAL DESCRIPTION OR LEGALLY RECORDED SUBDIVISION THAT HAS BEEN OR MAY BE LEGALLY CONVEYED TO A NEW OWNER BY DEED IN ITS EXISTING CONFIGURATION.

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL
THIS DAY OF, 2026

PRELIMINARY PLAT
NOT FOR RECORDATION
CONVEYANCES OR SALES



OWNER ACKNOWLEDGEMENT

I ACKNOWLEDGE THAT I HAVE FULL AUTHORITY TO LEGALLY EXECUTE A DEED FOR THIS PROPERTY.

SIGNATURE DATE

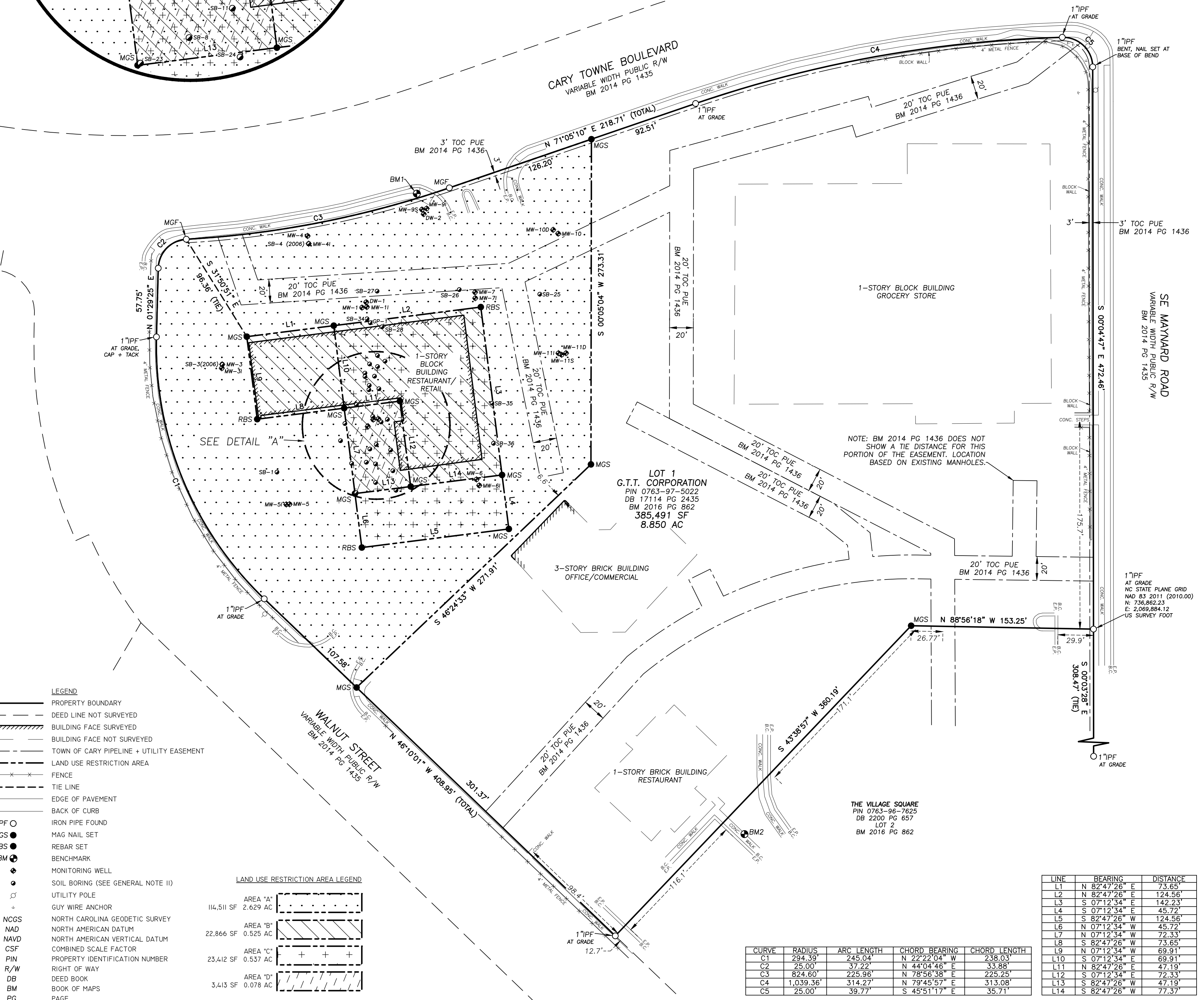
STATE
COUNTY

I, A NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT

DID PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE DAY OF, 2025

NOTARY PUBLIC (SIGNATURE) (OFFICIAL SEAL)

MY COMMISSION EXPIRES:



MONITORING WELL TABLE
COORDINATE SYSTEM: US STATE PLANE
ZONE: NORTH CAROLINA (FIPS 3200)
REFERENCE FRAME/EPOCH: NAD 83 2011 (2010.00)
DATUM/GEOD: NAVD 88 (GEOD 18)
UNIT: US SURVEY FOOT

- LEGEND
PROPERTY BOUNDARY
DEED LINE NOT SURVEYED
BUILDING FACE SURVEYED
BUILDING FACE NOT SURVEYED
TOWN OF CARY PIPELINE + UTILITY EASEMENT
LAND USE RESTRICTION AREA
FENCE
TIE LINE
EDGE OF PAVEMENT
BACK OF CURB
IRON PIPE FOUND
MAG NAIL SET
REBAR SET
BENCHMARK
MONITORING WELL
SOIL BORING (SEE GENERAL NOTE II)
UTILITY POLE
GUY WIRE ANCHOR
NORTH CAROLINA GEODETIC SURVEY
NORTH AMERICAN DATUM
NORTH AMERICAN VERTICAL DATUM
COMBINED SCALE FACTOR
PROPERTY IDENTIFICATION NUMBER
RIGHT OF WAY
DEED BOOK
BOOK OF MAPS
PAGE

LAND USE RESTRICTION AREA LEGEND
AREA "A" 114,511 SF 2.629 AC
AREA "B" 22,866 SF 0.525 AC
AREA "C" 23,412 SF 0.537 AC
AREA "D" 3,413 SF 0.078 AC

SURVEY PLAN - EXHIBIT A TO THE NOTICE OF DRY-CLEANING SOLVENT REMEDIATION
SOURCE PROPERTY:
OWNER: G.T.T. CORPORATION
GROUND LESSEE: VILLAGE SQUARE LLC
CONTAMINATION SOURCE:
THE FORMER AVALON CLEANERS
DSCA SITE ID: DC920037
SOURCE PROPERTY ADDRESS: 682 CARY TOWNE BOULEVARD, TOWN OF CARY, CARY TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

SURVEY DATE: 11/27/2024
FIELD BOOK: 003/4-2-4-5
FILE: AT10005.dwg
MAP SCALE: 1"=50'
PROJECT #: AT10005
CLOSURE BY: EMC
APOGEE SURVEYING, PLLC
NC LICENSE P-2427
1224 COURTLAND DRIVE
RALEIGH, NC 27604
919-368-9181
CASH@APOGEEENGINEERING.COM

REVISIONS
ADD GROUND LESSEE TO TITLE BLOCK
DATE
3/2/2026

CURVE RADIUS ARC LENGTH CHORD BEARING CHORD LENGTH
C1 294.39 245.04 N 222.22° E 238.03'
C2 25.00' 37.22' N 44°04'45" E 33.98'
C3 824.60 225.96' N 78°56'38" E 225.25'
C4 1,039.36' 314.27' N 79°45'57" E 313.08'
C5 25.00' 39.77' S 45°51'17" E 35.71'

LINK BEARING DISTANCE
L1 N 82°47'26" E 73.65'
L2 N 82°47'26" E 124.56'
L3 S 07°12'34" E 142.23'
L4 S 07°12'34" E 45.72'
L5 S 82°47'26" W 124.56'
L6 N 07°12'34" W 45.72'
L7 N 07°12'34" W 72.33'
L8 S 82°47'26" W 73.65'
L9 N 07°12'34" W 69.91'
L10 S 07°12'34" E 69.91'
L11 N 82°47'26" E 47.19'
L12 S 07°12'34" E 72.33'
L13 S 82°47'26" W 47.19'
L14 S 82°47'26" W 77.37'

- REFERENCES
DB 1953 PG 591
DB 1716 PG 2461
DB 1716 PG 2435
DB 2200 PG 657
DB 1984 PG 253
BM 2016 PG 862
BM 2014 PG 1435
BM 1994 PG 1624
BM 1974 PG 227

DEED STATEMENT
N.C.G.S. 143-215.104(M) REQUIRES THAT WHEN PROPERTY FOR WHICH A NOTICE OF DRY-CLEANING SOLVENT REMEDIATION HAS BEEN FILED IS SOLD, LEASED, CONVEYED OR TRANSFERRED, THE DEED OR OTHER INSTRUMENT OF TRANSFER SHALL CONTAIN IN THE DESCRIPTION SECTION, IN NO SMALLER TYPE THAN THAT USED IN THE BODY OF THE DEED OR INSTRUMENT, A STATEMENT THAT THE PROPERTY HAS BEEN CONTAMINATED WITH DRY-CLEANING SOLVENT AND, IF APPROPRIATE, CLEANED UP UNDER THIS PART. USE THE FOLLOWING STATEMENT TO SATISFY N.C.G.S. 143-215.104(M):
THIS PROPERTY HAS BEEN CONTAMINATED WITH DRY-CLEANING SOLVENT. A NOTICE OF DRY-CLEANING SOLVENT REMEDIATION IS RECORDED IN THE WAKE COUNTY REGISTER OF DEED'S OFFICE AT
DEED BOOK: PAGE:
QUESTIONS CONCERNING THIS MATTER MAY BE DIRECTED TO THE NORTH CAROLINA DIVISION OF WASTE MANAGEMENT, SUPERFUND SECTION, DRY-CLEANING SOLVENT CLEANUP ACT (DSCA) PROGRAM, OR ITS SUCCESSOR IN FUNCTION, 1646 MAIL SERVICE CENTER, RALEIGH, NC 27699-1646.

CONTAMINANT STATEMENT
GROUNDWATER IN WELLS MW-1, MW-11, MW-2, MW-12, MW-20, MW-4, MW-51, MW-7, MW-71, MW-10, MW-10D, DW-1, DW-2 EXCEEDED THE APPLICABLE 2L WATER QUALITY STANDARDS (ISA NCAC 2L.0200) FOR ONE OR MORE OF THE FOLLOWING CONTAMINANTS: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, CIS-1,2-DICHLOROETHYLENE, VINYL CHLORIDE, BENZENE, NAPHTHALENE, TOLUENE, XYLENES (TOTAL), 1,1,2-TRICHLOROETHANE, ACETONE, CHLOROFORM, METHYLENE CHLORIDE, 2-HEXANONE, 1,2,4-TRIMETHYLBENZENE, BROMODICHLOROMETHANE, N-PROPYLBENZENE, TRANS-1,3-DICHLOROPROPENE
THE DOCUMENTARY COMPONENT OF THIS NOTICE OF DRY-CLEANING SOLVENT REMEDIATION, WHICH IDENTIFIES CONTROLS OR LIMITATIONS ON THE USE OF THIS PROPERTY, IS RECORDED AT:
DEED BOOK: PAGE:

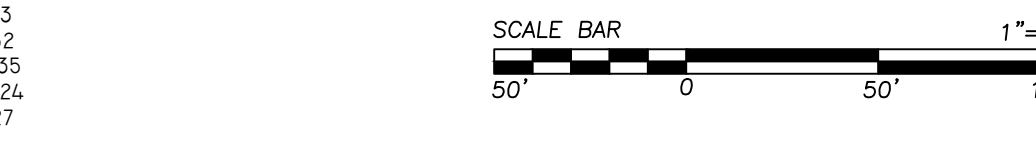


EXHIBIT B
PROPERTY LEGAL DESCRIPTION

BEGINNING at an iron pipe set in the northern margin of the right of way of Walnut Street, said pipe being North 46 deg. 17' 11" West 221.75 feet from an iron pipe having NC Grid Coordinates N: 736450.93 E: 2069542.91, thence running along and with the northern margin of the right of way North 46 deg. 17' 11" West 87.55 feet to a point; thence leaving the northern margin of the right of way and running along the "Old Property Line" as identified on plat entitled "Recombination Plat, Property of G.T.T. Corporation & Village Square, LLC" recorded in Book of Maps 2016, Page 863, Wake County Registry, North 66 deg. 57' 25" East 220.62 feet to a point; thence running South along the "New Property Line" as identified on the aforementioned recorded plat South 43 deg. 34' 28" West 202.71 feet to an iron pipe set, the point and place of BEGINNING, and being an 8,874 square foot triangular-shaped parcel owned now or formerly by Village Square, LLC.

APPENDIX D

EXAMPLE ANNUAL CERTIFICATION OF LAND-USE RESTRICTIONS

Annual Certification of Land-Use Restrictions

Site Name: Former Avalon Cleaners
Site Address: 682 Cary Towne Boulevard, Cary, Wake County
DSCA ID No: DC920037

ANNUAL CERTIFICATION of LAND-USE RESTRICTIONS

Pursuant to land-use restriction number 7 (the land-use restrictions are included as part of this form for reference) in the Notice of Dry-Cleaning Solvent Remediation (Notice) signed by G.T.T. Corporation (property owner at time of recordation) and recorded in Deed Book <blank>, Page <blank> on <date> at the Wake County Register of Deeds Office, G.T.T. Corporation hereby certifies, as the current owner of at least part of the property that is the subject of the Notice, that the Notice remains recorded at the Wake County Register of Deeds office and the land-use restrictions therein are being complied with.

Duly executed this ____ day of _____, 20__.

G.T.T. Corporation

By: _____

Name typed or printed: _____

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public of the county and state aforesaid, certify that _____ personally came before me this day and the foregoing certification was signed by him/her.

WITNESS my hand and official stamp or seal, this ____ day of _____, 20__.

Name typed or printed:
Notary Public

My Commission expires: _____
[Stamp/Seal]

LAND-USE RESTRICTIONS

NCGS § 143-215.104M requires that the Notice identify any restrictions on the current and future use of the Property that are necessary or useful to maintain the level of protection appropriate for the designated current or future use of the Property and that are designated in the dry-cleaning remediation agreement. The restrictions shall remain in force in perpetuity unless canceled by the Secretary of DEQ, or his/her designee, after the hazards have been eliminated, pursuant to NCGS §143-215.104M. Those restrictions are hereby imposed on the Property, and are as follows:

1. Without prior written approval from DEQ, the Property, as shown on Exhibit A, shall not be used for:
 - a. childcare centers, elementary, middle, or high schools; or elder care facilities. Exceptions to this restriction include use of the property for technical or adult education institutions; technical training centers; or tutorial institutions.
 - b. mining or extraction of coal, oil, gas or any mineral or non-mineral substances.
2. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools that use groundwater, or construction or excavation activities that encounter or expose groundwater) may occur in “**Area A**” of the Property, as shown on Exhibit A, without prior approval of DEQ.
3. Soil in “**Area B**” of the Property, as shown on Exhibit A, may not be removed or disturbed unless approved in writing in advance by DEQ or its successor in function, except for routine landscape maintenance and emergency utility repair. In the event of emergency utility repair, DEQ shall be given written notice of any such emergency repair no later than the next business day, and further related assessment and remedial measures may be required.
4. Except for routine maintenance, no construction activities or change in property use that cause or create an unacceptable human health risk from vapor intrusion may occur in “**Area C**” of the Property, as shown on Exhibit A, without prior approval of DEQ. These activities include but are not limited to: construction of new buildings, removal and construction of part of a building, construction of sub-grade structures that encounter contaminated soil or places building users in close proximity to contaminated groundwater, change from non-residential to residential property, change in tenant space usage, and addition of residential property use on higher floors.
5. Structural modifications that may cause or create an increased risk from vapor intrusion require the property owner to demonstrate to the satisfaction of DEQ that the indoor air in the structure does not pose an unacceptable risk to the occupants following modifications. These modifications include but are not limited to: modification or replacement of heating, ventilation or air conditioning (HVAC) systems, removal or replacement of the building slab, installation of multiple conduits or piping through the building slab, modifications to building walls or ceilings that may change air flow.
6. No activities that cause or create an increase in infiltration (for example, removal or demolition of materials such as asphalt, concrete, buildings, or other structures that by their use and nature minimize infiltration of rain or water runoff into potentially contaminated soil) may occur in “**Area D**” of the Property, as shown on Exhibit A, without prior approval of DEQ.

7. In January of each year, on or before January 31st, the owner of any portion of the Property shall submit a notarized Annual Certification of Land-Use Restrictions to DEQ certifying that this Notice remains recorded at the Register of Deeds' office, and that the land-use restrictions are being complied with.
8. No person conducting environmental assessment or remediation at the Property or involved in determining compliance with applicable land-use restrictions, at the direction of, or pursuant to a permit or order issued by DEQ may be denied access to the Property for the purpose of conducting such activities.
9. The owner of any portion of the Property shall cause the instrument of any sale, lease, grant, or other transfer of any interest in the property to include a provision expressly requiring the lessee, grantee, or transferee to comply with this Notice. The failure to include such a provision shall not affect the validity or applicability of any land-use restriction in this Notice.

APPENDIX E

EXAMPLE DOCUMENTS ANNOUNCING THE PUBLIC COMMENT PERIOD

JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL SCOTT
Director



<Date>

<name>, <City Manager/County Health Director>
<address>
<city>, NC <zip>

Subj: Remediation of Dry-Cleaning Solvent Contamination
DSCA Site ID DC920037
Former Avalon Cleaners, 686 Cary Towne Boulevard, Cary

Dear <name>:

The Dry-Cleaning Solvent Cleanup Act of 1997 (DSCA), North Carolina General Statutes (N.C.G.S.) Sections 143-215.104A through 143-215.104U, provides for the assessment and remediation of properties that may have been or were contaminated by chlorinated solvents. To satisfy the requirements of N.C.G.S. 143-215.104L, this letter serves as the **Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site** (NOI) approved by the North Carolina Department of Environmental Quality (DEQ).

The NOI must provide, to the extent known, a legal description of the location of the DSCA Site, a map showing the location of the DSCA Site, a description of the contaminants involved and their concentrations in the media of the DSCA Site, a description of the intended future use of the DSCA Site, any proposed investigation and remediation, and a proposed Notice of Dry-Cleaning Solvent Remediation (NDCSR) prepared in accordance with N.C.G.S. Section 143-215.104M. The required components of the NOI are included in the attached Risk Management Plan, and are available during the public comment period on our website. If you would like to view the documents, please go to deq.nc.gov/ncdsca and select "DSCA Public Notices and Announcements" on the right-hand side of the web page.

The DSCA Program is providing a copy of the NOI to all local governments having jurisdiction over the DSCA Site. A 30-day public comment period is being held from <date>, until <date>. Written comments may be submitted to DEQ no later than <date>. Written requests for a public meeting may be submitted to DEQ no later than <date>. All such comments and requests should be sent to:

Billy Meyer, DSCA Remediation Unit
Division of Waste Management, NCDEQ
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

A Summary of the NOI is being published in the News & Observer, copies are being sent to owners of property within and contiguous with the area of contamination, and a copy of the Summary will be conspicuously posted at the Site during the public comment period.



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

If you have any questions, please feel free to contact me at (919)707-8366.

Sincerely,

Billy Meyer, DSCA Unit Supervisor
Division of Waste Management, NCDEQ

cc: DSCA Site ID DC920037 File

JOSH STEIN
Governor

D. REID WILSON
Secretary

MICHAEL SCOTT
Director



<date>

<property owner>
<mailing address>
<city, state, zip>

Subj: Dry-Cleaning Solvent Contamination at the former Avalon Cleaners, 686
Cary Towne Boulevard, Cary, Wake County, NC DSCA Site ID DC920037

Dear <property owner>:

You are receiving this letter because your property at <adjacent property address> is adjacent to an area contaminated with dry-cleaning solvents. There are no actions required on your part and your property is not contaminated. This letter is only for notification purposes. The Dry-Cleaning Solvent Clean-up Act (DSCA) Program has completed an assessment of the dry-cleaning solvent contamination associated with the Avalon Cleaners at 686 Cary Town Boulevard in Cary. The former dry-cleaning facility is currently occupied by the Posh Nail & Spa. A remedial strategy to address the site contamination has been prepared, and in accordance with our program's statutes, the community has an opportunity to review and comment on the proposed strategy.

The attached Summary of the Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site (NOI) provides a brief description of the proposed remedy, a web link to the complete NOI, and the dates and procedures for commenting on the proposed remedy. If you do not have access to the internet and wish to view this document, we ask that you contact us to request a hard copy of the complete NOI.

If you have questions, please contact me at billy.meyer@deq.nc.gov or (919) 707-8366.

Sincerely,

Billy Meyer, DSCA Unit Supervisor
Division of Waste Management, NCDEQ

Attachments: Summary of the NOI

cc: DSCA Site ID DC920037 File



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

Public Notice

SUMMARY OF NOTICE OF INTENT TO REMEDIATE A DRY-CLEANING SOLVENT FACILITY OR ABANDONED SITE

**N.C. Department of Environmental Quality
Division of Waste Management
Dry-Cleaning Solvent Cleanup Act (DSCA) Program**

Former Avalon Cleaners
DSCA Site ID DC920037

Pursuant to N.C.G.S. §143-215.104L, on behalf of The Village Square LP, the North Carolina Department of Environmental Quality's (NCDEQ's) private contractor has prepared a Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site (NOI). The purpose of this Summary of the NOI is to notify the community of the proposed remedy for the contamination site and invite comment on the proposed remedy.

Avalon Cleaners formerly conducted dry-cleaning operations at an unnamed outdoor shopping center at 682 Cary Towne Boulevard, in Cary, North Carolina. The former dry-cleaner is currently occupied by the Posh Nail & Spa. Dry-cleaning solvent contamination in soil and/or groundwater has been identified at the following parcel(s):

682 Cary Towne Boulevard, in Cary; Parcel No. 0763-97-5022

An investigation of the extent of contamination has been completed. A risk assessment of the contaminated properties concluded that the contamination poses no unacceptable risks. A Risk Management Plan (RMP) has been prepared which proposes using land-use controls to prevent current and future risks at the affected properties.

The elements of the complete NOI are included in the RMP which is available online at deq.nc.gov/ncdsca under "DSCA Public Notices and Announcements".

The public comment period begins _____, 20__, and ends _____, 20__.

Comments must be in writing and submitted to NCDEQ no later than _____, 20__. Written requests for a public meeting may be submitted to NCDEQ no later than _____, 20__. Requests for additional information should be directed to Billy Meyer at (919)707-8366. All comments and requests should be sent to:

Billy Meyer, DSCA Remediation Unit
Division of Waste Management, NCDEQ
1646 Mail Service Center
Raleigh, North Carolina 27699-1646