



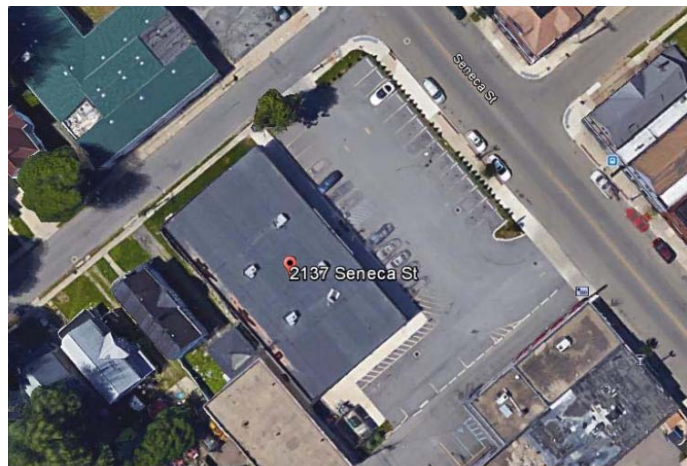
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PERIODIC REVIEW REPORT – NO. 1

**Former Pizza Hut
2137 Seneca Street
Buffalo, New York 14210**

NYSDEC Site No. V00370-9

Project Number: 07.017120/001



Prepared For:



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
625 Broadway
Albany, New York 12233

and

Richard and Margaret Wieczorek (As Part Owner)
795 Choctaw Lane
Shalimar, Florida 32579

Report Date: September 1, 2016

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1.0 EXECUTIVE SUMMARY

As authorized by Richard and Margaret Wieczorek (As Part Owner) Applus RTD USA has completed a Periodic Review Report (PRR) of a parcel of land addressed at 2137 Seneca Street, Buffalo (Erie County), New York (Site). The PRR was completed in general conformance with the Site Management Plan (SMP) prepared by URS, Inc. and dated May 25, 2011 for New York State Department of Environmental Conservation (NYSDEC) Volunteer Clean-up Program Site #V00370-9.

Historical use of the Site indicated that previous uses of the Site include residential dwellings, a pharmacy, a retail tire establishment, automotive service building, offices, a dry cleaning establishment, and former restaurants (i.e., Pizza Hut and Wendy's). Dry cleaning chemicals (namely Tetrachloroethene or PCE) were presumably released to the environment from the aforementioned dry-cleaning establishment resulting in impacted soil and groundwater.

The Site has undergone several remediation activities between 2003 and 2009 with the approval of NYSDEC. Approximately 726-tons of excess overburden soil/fill was excavated and transported off-site for disposal as part of the remedial activities. The Site was restored post-remediation and was developed with a commercial-retail facility operated as a Dollar General store. The NYSDEC-approved Site Management Plan requires continued certification of the Site Institutional and Engineering Controls and implementation of a Groundwater Monitoring Program.

During the monitoring period commencing May 2016, the following tasks of the SMP were completed:

- Institutional and Engineering (IC/EC) Controls were maintained as certified by the Owner;
- A Site-wide inspection was completed of the Cover System; and
- Groundwater Monitoring was completed.

Minor failures were noted associated with the Cover System and included seasonally damaged or dead bushes, loss of grass cover, minor sidewalk cracking, and an asphalt patch in the sidewalk likely associated with an underground utility.

- Recommendations: Replacement of damaged or dead bushes, and replace grass cover as needed. Ensure that the asphalt patch in the sidewalk is secure and intact.

In addition, the results of the Groundwater Monitoring Program indicate that elevated levels of total chlorinated volatile organic compounds (CVOCs) associated with PCE and its potential breakdown products (TCE, cis-1,2-DCE, PCE, and Vinyl Chloride) were detected in monitoring well MW-4 (4,840 ug/l), at concentrations above the NYSDEC-mandated Standards, Criteria, and Guidelines (SCG) value of 1,000 micrograms per liter (ug/L) or 1 milligram/liter (mg/L). The analytical results of downgradient perimeter wells were below the NYSDEC-mandated SCG concentration of 1 milligram per liter (mg/L), except at monitoring well MW-4A (1,225 ug/l) and PZ-A (3,020 ug/l). It should be noted that PCE degradation CVOCs were detected in deep monitoring well MW-4A and included vinyl chloride (770 ppb) and cis-1,2-Dichloroethene (1,800 ppb).

Recommendation: Continued Groundwater Monitoring is required as stipulated in the VCP agreement until the NYSDEC-mandated SCG is attained. Once attained, four (4) additional Quarters of Groundwater Monitoring will be required.

2.0 Site Overview

2.1 Location

The Site is located in an urban area in the City of Buffalo, County of Erie, New York. The current Site address is 2137 Seneca Street, which is identified as Parcel Number 133.26-7-1.1 on the City of Buffalo Tax Map. The Site is an approximately 0.5-acre area bounded by Seneca Street to the northeast and Kingston Place to the northwest. Commercial properties are located adjacent to the Site along Seneca Street (northeast, northwest, and southeast) and residential properties border the rear of the Site along Kingston Avenue (southwest) (Figure 1 and 2).

The Site is currently occupied by an active, single-story commercial building that faces Seneca Street and an asphalt-paved parking lot that covers the remainder of the property around the building. The current building is built for use as a Dollar General (discount store) since 2013.

2.2 Site History and Remediation

Historical use of the Site was summarized by Conestoga Rovers and Associates (CRA) in the associated Final Site Investigation Report and Feasibility Study (SI/FS Report), dated March 31, 2003. This report indicated that previous uses of the Site include residential dwellings, a pharmacy, a retail tire establishment, automotive service building, offices, a dry cleaning establishment, and former restaurants (i.e., Pizza Hut and Wendy's). According to historic business listings (CRA SI/FS Report), buildings facing Seneca Street included the dry cleaning establishment at 2141 Seneca Street (northeast corner of the property) from the 1950s until construction of the former Pizza Hut/Wendy's building in 1982. Dry cleaning chemicals (namely Tetrachloroethene or PCE) were presumably released to the environment from the aforementioned dry-cleaning establishment resulting in impacted soil and groundwater.

A Phase II environmental site investigation (ESI) performed by the Fourth River Company of Pittsburgh, Pennsylvania (FRC) in 1999, first identified the presence of PCE on-Site. Franchise Finance Corporation of America (FFCA – merged with GE Capital Franchise Finance Corporation (GEFF) in 2001), a former Owner, and the New York State Department of Environmental Conservation (NYSDEC) enrolled into the NYSDEC Voluntary Clean-up Program (VCP) in 2000 as the then-noted Volunteer, and the site was assigned the VCP number V00370-9. Several investigations and sampling events were conducted by between 1999 and 2002 before remedial action for the soil was conducted in 2003 and of the groundwater in April 2004 and November 2009. [The current Site Owner since at least 2015 is Richard and Margaret Wieczorek (As Part Owner), and the site is operated as a Dollar General commercial-retail store.]

The Site has undergone several remediation activities between 2003 and 2009 with the approval of NYSDEC. The following is a summary of the Remedial Actions performed at the Site:

- Excavation of soil/fill in the northern portion of the Site that exceeded NYSDEC Technical Administrative Guidance Memorandum (TAGM) #4046 Standards, Criteria, and Guidelines (SCGs) to the extent practicable; advancing vertically to the top of the water table (approximately 10 feet bgs) and horizontally to the property boundary or structures whose integrity would be compromised;
- Construction and maintenance of a soil cover system consisting of vegetative soil or asphalt pavement overlying limestone aggregate backfill to prevent human exposure to remaining contaminated soil/fill remaining at depths below 6 feet under the Site;
- Execution and recording of the Declaration to restrict land use and prevent future risks of exposure, if any, to any residual contamination remaining at the Site;

- Installation of an in-situ groundwater treatment system in the northern portion of the Site comprising a series of injection wells and injection gallery piping connected to service boxes through a network of shallow subsurface feeding lines;
- Implementation of four In-Situ Chemical Oxidation (ISCO) applications to the shallow and deep groundwater utilizing the aforementioned treatment system under gravity flow conditions between April 2004 and May 2005;
- Implementation of three applications of both abiotic and biotic reductive dehalogenation remediation amendments within the shallow groundwater in the northern corner of the Site between September 2007 and November 2009. These full-scale events included the injection of zero-valent iron (ZVI) and either Hydrogen-releasing Compound (HRC)® or EHC® after pathway development within the subsurface using pneumatic and limited hydraulic fracturing;
- Development and implementation of a Soil Management Plan (SMP) for long-term management of Remaining Contamination as required by the Declaration, which includes plans for IC and EC Plans; monitoring, operation and maintenance (if needed); and reporting.
- Completion of a Construction Closeout Report (CCR), on behalf of 2137 Seneca, LLC, to summarize the post-remedial redevelopment activities at the Site. Post remedial activities included the following:
 - Demolition of former restaurant building, with off-site disposal and or recycling of waste streams. Approximately 726-tons of excess overburden soil/fill was excavated and transported off-site for disposal, including 627-tons at WM – Chaffee Landfill in Chaffee, New York and 99-tons at Modern Landfill in Model City, New York
 - Decommissioning of thirty-six (36) former monitoring wells and piezometers, in accordance with NYSDEC CP-43 guidelines;
 - Installation of a passive sub-slab vapor depressurization system within the commercial building (i.e., Dollar General);
 - Placement and compaction of clean backfill material. Approximately 965.5-tons of approved backfill material was placed on-Site including, approximately 877.5 tons of 2" ROC from Buffalo Crushed Stone Wehrle, and approximately 88-tons of 2" recycled material from Buffalo Recycled Aggregate, LLC; and,
 - Construction of a 9,100 square foot commercial building, parking areas, and landscaping.

2.3 Remaining Contamination

Based on the analytical data collected to-date, contaminant concentrations have been significantly reduced; however, Remaining Contamination was still detected in the subsurface on-Site by URS, Inc. as of May 2011. As previously reported to the NYSDEC, the results of the remedial investigations, as well as the confirmatory soil sampling and progress groundwater monitoring conducted after the remedial efforts, were performed to evaluate the Remaining Contamination present on-Site.

The groundwater contaminant data since January 2006, as previously reported by URS, Inc., confirm that the application of abiotic and biotic reductive dehalogenation remediation technologies has been successful in reducing the PCE concentration breakdown products (cis-1,2-dichloroethene [cis-1,2-DCE] and vinyl chloride, respectively) on-Site. The chlorinated volatile organic compound (CVOC) contaminant mass on-Site is reportedly dominated by the third-order breakdown product vinyl chloride, indicating that reductive dehalogenation pathway of PCE is nearly completed.

2.4 Existing Groundwater Monitoring System

According to the URS SMP, groundwater monitoring results have demonstrated that residual groundwater concentrations are consistently below or near the NYSDEC-defined SCG and have demonstrated significant stability at low levels in the perimeter wells.

Groundwater monitoring of five shallow wells within the immediate vicinity of the remediated impact area will continue on a semi-annual basis until the reported total CVOC concentration at all monitored wells drops below the NYSDEC-defined SCG. The five shallow wells include MW-2, MW-4, MW-11, MW-13, and PZ-A. In addition, deep well MW-4A is also monitored. The locations of the wells are presented on Figure 3.

Monitoring well MW-4 still contains CVOCs at levels exceeding the NYSDEC-defined SCG, but at levels less than in November 2013. The analytical results of downgradient perimeter wells MW-11 and MW-13 indicate an increase of CVOC degradation by-products of PCE chiefly associated with vinyl chloride and/or cis-1,2-Dichloroethene (refer to the URS SMP report dated May 25, 2011). Well PZ-A reported a decrease in total CVOCs as compared to November 2013.

2.5 Clean-up Goals

According to the SMP report, the remedial goal of reducing groundwater CVOCs to the NYSDEC-mandated concentration of 1 milligram per liter (mg/L) or part per million (ppm) or less on-Site has substantially been achieved. Isolated temporary spikes in CVOC concentrations have been reported specifically in monitoring well MW-4 (Figure 3) chiefly associated with PCE degradation products.

Once the monitoring objectives have been achieved, the current Owner will perform at least three more groundwater monitoring events (four quarters total) to confirm that the monitoring results report a cumulative CVOC concentration (i.e., summation of PCE and its breakdown products TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) of less than 1 mg/L in each on-Site well. Once the quarterly monitoring has demonstrated that the total CVOC concentrations on-Site are at 1 mg/L or below, the Owner will notify NYSDEC, discontinue groundwater monitoring, and initiate the decommissioning of the monitoring wells. The Owner will not initiate the well decommissioning activities without NYSDEC's consent. Well decommissioning will be in accordance with NYSDEC guidance.

2.6 Institutional/Engineering Control Verification

2.6.1 Verification of Site Details

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify Site details on an annual basis until closure of the VCP Agreement is satisfied.

2.6.2 Institutional Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable. The following ICs are listed for the Site:

- Groundwater Use Restriction
- Land-use Restriction
- Monitoring Plan
- Site Management Plan (SMP)

The Declaration of Covenants and Restrictions prohibits the site from being used for anything other than industrial or commercial purposes, excluding day care, child care and medical care uses. The use of the groundwater underlying the site is also prohibited without proper treatment.

The Owner has certified that the IC/EC are applicable (refer to Appendix B - Institutional Controls (IC) and Engineering Controls (EC) Certification).

2.6.3 Engineering Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable.

The following EC are listed for the Site:

- Cover System Inspection

The soil cover system is a permanent, passive control that includes clean soil cover/cap in landscaped areas, asphalt covered/paved parking, and throughways, and concrete covered sidewalks that is integrated into the current use of the property. The current cover system is expected to remain in-place in perpetuity with routine maintenance (i.e., landscaping maintenance, asphalt pavement sealing and repair, municipal inspection of sidewalks and associated repair) expected with Site use.

The cover system monitoring will be conducted annually in the spring or early summer season and will involve a visual walk-over inspection of the Site. Additional inspections will be required after any redevelopment of the property that involves removal and replacement of any section of the pavement, including excavations. Unscheduled inspections may take place when a suspected failure in the cover system has been reported or an emergency occurs that is deemed likely to affect the operation of the system.

The visual inspection will involve an evaluation of the integrity of the following features on-Site:

- a) The sidewalk along Kingston Place and Seneca Street;
- b) The landscaped area between the northwestern edge of the parking lot and the sidewalk along Kingston Place;
- c) The asphalt pavement parking lot surrounding the current building;
- d) The landscaped area in front (northeast) of the current building.

A complete list of components to be checked is provided in the Inspection Checklist, presented in Appendix B-2. For landscaped areas, observations including areas of deterioration, water erosion, subsidence, or ponding will be documented on the inspection form and evaluated. For paved areas (i.e., asphalt, sidewalk), separation cracks or vertical off-sets that are greater than one-half inch shall be documented and sealed or repaired.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

As a requirement of the EC Certification, a New York State Professional Engineer (NYSPE) is required to sign the appropriate Certification Form. Such is provided in Appendix B-1.

3.0 Media Monitoring Program

SMP activities include monitoring of groundwater remediation progress and contingency monitoring of Soil Vapor Intrusion (SVI) potential. Groundwater monitoring includes well development and sampling activities at monitoring wells noted in Section 2.4.

The contingency SVI monitoring has not been completed as the requirements for such monitoring have not yet been developed by the Owner or approved by the NYSDEC. At present, a passive sub-slab vapor depressurization system has been installed within the commercial building (i.e., Dollar General). An evaluation of the need for implementing an active system has not been implemented for the Site. If required based on available soil and/or groundwater monitoring data, the SVI will identify the SVI risk present for the building occupation and outline a program necessary for monitoring and/or mitigating the risk, if present.

3.1 Groundwater Progress Monitoring

Groundwater progress monitoring was conducted to assess the performance of the remedial activities as the groundwater concentrations approach the remedial goal of 1 part per million (ppm) in each of the on-site monitoring wells serving as the monitoring program wells (refer to Section 2.4).

In as much as there are no active potable water supply wells on-Site or off-Site that are withdrawing groundwater from the VOC-contaminated groundwater zone, there is no significant risk posed to public health due to the detection of part per- billion (ppb) concentrations of CVOCs in groundwater in the vicinity of the Site. In addition, there appears to be no significant future risk to human health given the unlikely potential for future potable use of the shallow aquifer underlying the Site.

To confirm that groundwater has achieved the site-specific remedial goal, monitoring wells have been established that include up-gradient well MW-2, down-gradient wells MW-4, MW- 13, MW-11, and PZ-A, and deep well MW-4A, as illustrated on Figure 3. These wells were previously selected based on the historic groundwater concentrations. Monitoring well MW-2 is also included to confirm up-gradient to cross-gradient concentrations.

Groundwater progress monitoring was conducted in March 2016 and will further be conducted until the reported total CVOc concentration in each of the selected wells achieves the NYSDEC-defined SCG a level of 1 mg/L or below of total CVOcs.

3.2 Sampling Protocol

3.2.1 Groundwater Wells

Groundwater level measurements were collected from the designated monitoring well locations (i.e., MW-2, MW-4, MW-4A, MW-11, MW-13, PZ-A) prior to sampling. Each well was purged using low-flow pumping or bailing techniques. Groundwater samples were collected after at least three well-volumes were removed. Sampled groundwater was collected in laboratory-supplied bottles, placed in a cooler, chilled to approximately 4 degrees Celsius (°C), and transported to the analytical laboratory (i.e., Alpha Analytical) by the field crew under chain-of-custody procedures.

Groundwater samples were tested for VOCs by SW-846 Method 8260. To monitor QA/QC for each groundwater sampling event, one duplicate sample and one trip blank were collected during the monitoring event.

3.2.2 Disposal Drums

All purged water was containerized within a 55-gallon drum that was stored on-Site proximate the trash enclosure. [A composite sample of the contents of the drum will be sampled on completion of groundwater

sampling events to evaluate whether the waste is characterized as non-hazardous or hazardous for disposal purposes; such has not been completed as of yet.] As of December 2010, the criteria for evaluating the composite sample results to determine whether the waste is hazardous or nonhazardous is outlined in the New York State regulations in 6 NYCRR Part 371.3(e) and the Federal Regulations in 40 CFR Part 261.24. Historic waste characterization evaluations (by others) have found that the constituents most likely to impact the evaluation are the VOC constituents listed in the Table below (their respective criteria for determining the hazardous character of the waste is also included).

Constituent	6 NYCRR Part 371.3 (e) (as of December 2010)	40 CFR Part 261.24 (as of December 2010)
PCE	0.7 mg/L	0.7 mg/L
TCE	0.5 mg/L	0.5 mg/L
Vinyl Chloride	0.2 mg/L	0.2 mg/L

No drum sampling has been completed as of the date of this report.

3.3 Monitoring Quality Assurance/Quality Control (QA/QC)

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the Site and presented in the SMP. Main components include:

- Sampling Program
 - Sample containers will be provided by the laboratory to certify that they are properly washed, decontaminated, and dosed with appropriate preservative (if applicable) prior to sample collection and analysis. Containers with preservative will be properly labeled as such.
 - Sample holding times will be in accordance with the NYSDEC Analytical Services Protocol (ASP) requirements.
 - Field QC samples (e.g., trip blanks and coded field duplicates) will be collected as necessary.
- Analytical Procedures.
- Preparation of a summary of sample preservation and chain-of-custody procedures.
- Calibration Procedures:
 - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
 - The laboratory will follow all calibration procedures and schedules as specified in EPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Preventative Maintenance Procedures and Schedules.
- Corrective Action Measures.

4.0 Summary of Results

4.1 Institutional/Engineering Control Verification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable. The Owner has certified that the IC/EC are applicable (refer to Appendix B - Institutional Controls (IC) and Engineering Controls (EC) Certification).

4.2 Engineering Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable.

The following EC are listed for the Site:

- Cover System Inspection

Based on the results of the Site inspection, the following was noted:

- Vegetative cover along Kingston Place – seasonally damaged bushes and lack of grass cover was noted (refer to Appendix B-2)
- Sidewalk (Kingston Place) has minor cracking (0.25-inches or less); sidewalk (Seneca Street) appears to have been excavated and patched with asphalt; likely associated with an underground utility. Also, minor cracking (0.25-inches or less) was noted. The parking lot, building walkways, access roads – no concerns (refer to Appendix B-2)

4.3 Groundwater Monitoring Program

Six (6) groundwater monitoring wells were redeveloped on May 3, 2016 prior to sampling. Well redevelopment included the following tasks:

- Each well was redeveloped using a low-flow peristaltic pump, Model Geotech Geopump II, and appropriate-diameter polyethylene tubing. Prior to redevelopment, each well was gauged with an electronic water level indicator to determine the depth to the water table; such data is presented in Table No. 2. [Table No. 1 also presents historic water levels obtained by others] Well evacuation continued until at least three well volumes were removed. The evacuated waters were stored in a 55-gallon drum on-site.
- Monitoring well PZ-A was developed using a 1-inch PVC bailer and at least five well volumes were evacuated.
- Groundwater samples were obtained via the low-flow peristaltic pump, utilizing the same polyethylene tubing used for well redevelopment.
- Groundwater samples were placed into pre-cleaned jars provided by the analytical laboratory, Alpha Analytical. One trip blank QA/QC sample was also submitted for analysis. One unmarked Duplicate sample was also submitted for analysis. The eight (8) samples were submitted for volatile organic compound (VOC) analysis via USEPA Method 8260C.

4.3.1 Groundwater Levels

Groundwater elevations were plotted on a site location map which presents the existing Groundwater Monitoring System wells. Groundwater elevations are referenced to the top of the well casing at each well and are

presented in Table 1 and shown graphically on Figure 3. The approximate shallow overburden groundwater flow direction is believed to be to the northwest direction and is consistent with historic data.

4.3.1.1 Well Integrity

All monitoring wells were checked for integrity of the steel road boxes and the surface cement-grout seals. All road boxes and the surface seals were determined to be intact. However, the road box hold-down bolts at well PZ-A were noted to be stripped. The bolts were replaced on extraction and the well was secured.

4.3.2 Analytical Results

Based on the analytical results of the groundwater sampling and testing, the detected parameters are presented in Table 2 and graphically on Figure 4. Total CVOC concentrations, which include a summation of PCE and its potential breakdown products (TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, and Vinyl Chloride), are presented in micrograms per liter (ug/L).

In general, the CVOC concentrations were below the NYSDEC-mandated SCG concentration of 1,000 microgram per liter (ug/L) or 1.0 mg/L (ppm), except at monitoring well MW-4 (4,840 ug/l), MW-4A (1,225 ug/l), and PZ-A (3,020 ug/l). It should be noted that PCE degradation CVOs were detected in deep monitoring well MW-4A, and included vinyl chloride (770 ppb) and cis-1,2-Dichloroethene (1,800 ppb).

5.0 Findings and Recommendations

5.1 IC/EC Certification

No concerns were identified during the Cover System inspection on May 3, 2016, except as noted in Section 4.2.

- Recommendations: Replacement of damaged or dead bushes, and replace grass cover as needed. Ensure that the asphalt patch in the sidewalk is secure and intact.

5.2 Groundwater Monitoring Program

Reported CVOC concentrations were below the NYSDEC-mandated SCG concentration of 1 milligram per liter (mg/L), except at except at monitoring well MW-4 (4,840 ug/l), MW-4A (1,225 ug/l), and PZ-A (3,020 ug/l).

- Recommendations: Continued Groundwater Monitoring is required as stipulated in the VCP agreement until the NYSDEC-mandated SCG is attained. Once attained, four (4) additional Quarters of Groundwater Monitoring will be required.

6.0 Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10.

I have the specific qualifications based on education, training, and experience to undertake this Periodic Review Report of the property identified as Former Pizza Hut, 2137 Seneca Street, Buffalo, New York for the current Owner, Richard and Margaret Wieczorek (As Part Owners).

A handwritten signature in black ink, appearing to read "Andrew J. Kueserik".

Andrew J. Kueserik, CPG, PG
Environmental Manager

Mr. Kucserik's professional history includes 35 years of experience as a professional geologist, manager, and currently holds the title of Environmental Manager and Senior Geologist for Applus RTD in Buffalo, NY. Mr. Kucserik's technical responsibilities include: preparation and review of technical documents relating to environmental, geotechnical, geophysical, and groundwater investigations. Preparing technical staff for field investigations and conducting periodic field oversight for quality assurance. Review of draft technical reports for client submission. Geophysical investigations (electromagnetic, ground penetrating radar, electrical resistivity) for geotechnical and environmental projects. Geologic and environmental due diligence report preparation and oversight.

Applus RTD USA, Inc. (APPLUS RTD), Buffalo, NY
 ENVIRONMENTAL MANAGER/SENIOR GEOLOGIST

- ⊕ Responsible for scheduling and management of all Environmental due diligence activities (Phase I) projects in the Western New York area and portions of Pennsylvania. Mr. Kucserik is also responsible for providing professional services concerning Phase II Environmental Site Assessments incorporating in-house drill rigs and staff, site remediation, soil, groundwater, and soil gas vapor sampling, geophysical investigations, and oversight monitoring.
- ⊕ Underground storage tank (UST) removal investigations and oversight monitoring.
- ⊕ Completed over 2,000 Phase I Environmental Site Assessments.
- ⊕ Completed over 200 geophysical surveys utilizing magnetometer, ground penetrating radar, seismic blast monitoring, resistivity surveys, and reflection/refraction equipment.
- ⊕ Regulatory agency interfacing.
- ⊕ Business development.

Lender Consulting Services, Inc., Buffalo, NY
 GENERAL MANAGER – WESTERN NEW YORK REGION

- ⊕ Business development
- ⊕ Phase I and Phase II project coordination
- ⊕ Client interfacing
- ⊕ Regulatory interfacing
- ⊕ Senior Environmental Professional review

Barron & Associates, P.C., Clarence, NY
 ENVIRONMENTAL MANGER/SENIOR GEOLOGIST

- ⊕ Phase I and Phase II project coordination
- ⊕ Geophysical investigations
- ⊕ Client interfacing

Professional Background
 Environmental Manager

Education

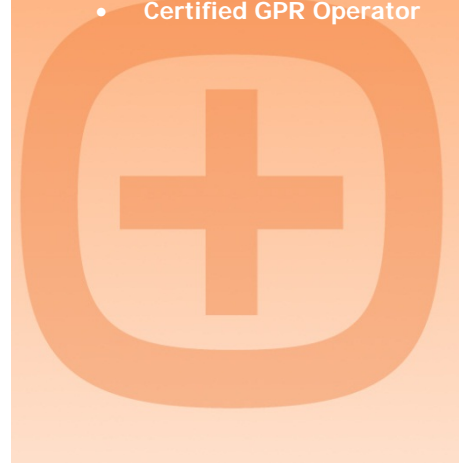
B.A. in Geological Sciences
 State University of New York
 at Buffalo

Post Graduate work in
 Geological Sciences
 State University of New York
 at Buffalo

Years of Experience
 35

Certifications

- New York State Professional Geologist (License Pending 2016)
- American Institute of Professional Geologists, Certified Professional Geologist #7951
- Buffalo Association of Professional Geologists, President 1988, V. Pres. 1987, Treasurer 1986, Board of Directors
- Certified GPR Operator



Applus RTD USA, Inc.

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EMPLOYMENT (CONTINUED)**Day Environmental Inc., Rochester, NY****SENIOR GEOLOGIST**

- ⊕ Phase I and Phase II project coordination
- ⊕ Client interfacing

ECCO, Inc., Buffalo, NY**SENIOR GEOLOGIST**

- ⊕ Phase I and Phase II project coordination
- ⊕ New York State Certified Asbestos Handler

Empire Soils Investigations, Inc., Hamburg, NY**SENIOR GEOLOGIST/DRILLING MANAGER/CONSTRUCTION TECHNICIAN**

- ⊕ Oversight monitoring on construction projects for concrete and soils
- ⊕ Laboratory technician
- ⊕ Managed and scheduled six drill crews in the Western New York area
- ⊕ Geologic reports
- ⊕ Assisted in-house engineering staff with geologic services

PROFESSIONAL AFFILIATIONS & TRAINING

- ⊕ HAZWOPER Recertification (August 2016)
- ⊕ USEPA Certified Lead-Based Paint Inspector (2012 - 2016)
- ⊕ SUNY @ Buffalo Geology Alumni Advisory Board (2010 – 2014)
- ⊕ Radiation Worker II Safety Refresher (May 2003)
- ⊕ USEPA Fractured Bedrock Symposium (February 2001)
- ⊕ Wetlands Identification & Delineation (December 2000)
- ⊕ Federal and State Spill Reporting Requirements (October 1997)
- ⊕ ASTM Seminar, Risk-Based Corrective Action (June 1997)
- ⊕ ASCE Course on Foundation Design (April 1997)
- ⊕ IAH Symposium, Modern Trends in Hydrogeology (May 1992)
- ⊕ Asbestos Handlers & Supervisors Course (1989 - 1992)
- ⊕ OSHA 1910.120 40-Hour Hazardous Waste Certification (December 1987)
- ⊕ Site Assessment of Hazardous Waste Sites (October 1987)

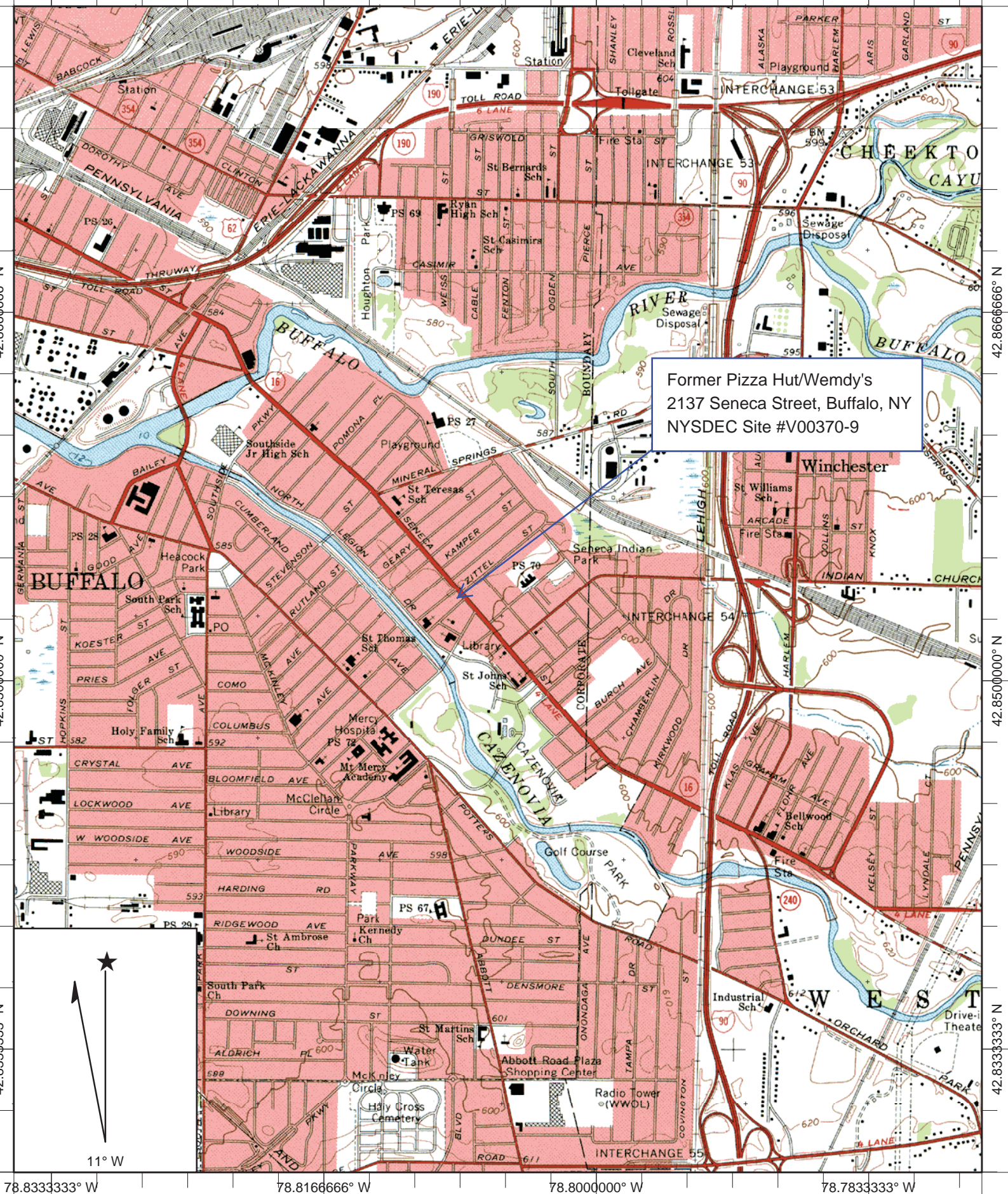
Applus RTD USA, Inc.

80 Lawrence Bell Drive · Williamsville, New York 14221
T: 716 279 3525 M: 716 863 2093 F: 716 853 2619

APPENDICES

APPENDIX A – FIGURES AND TABLES

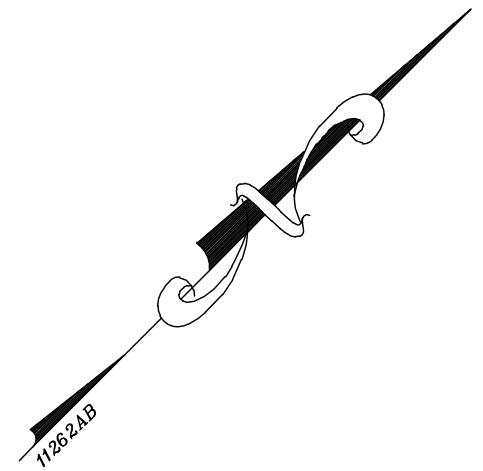
78.8333333° W 78.8166666° W 78.8000000° W 78.7833333° W



Name: BUFFALO SE

Scale: 1 inch equals 2000 feet

Location: 042.8541398° N 078.8060336° W
Caption: 2137 Seneca Street, Buffalo, NY (1965)

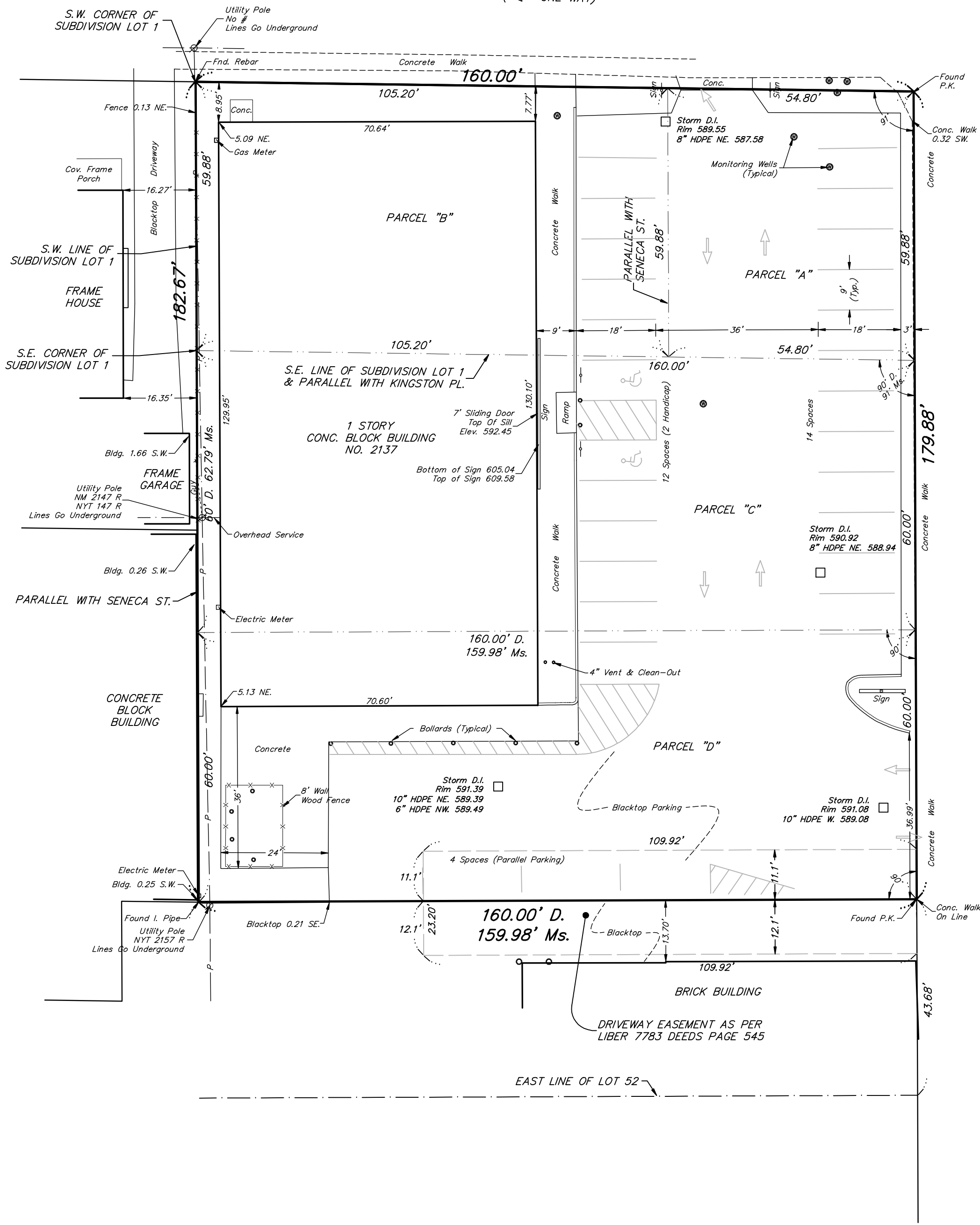


KINGSTON (40' WIDE) PLACE
(ALSO KNOWN AS KINGSTON STREET)
(← ONE WAY)

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



STREET

(66' WIDE)

SENECA


LEGEND

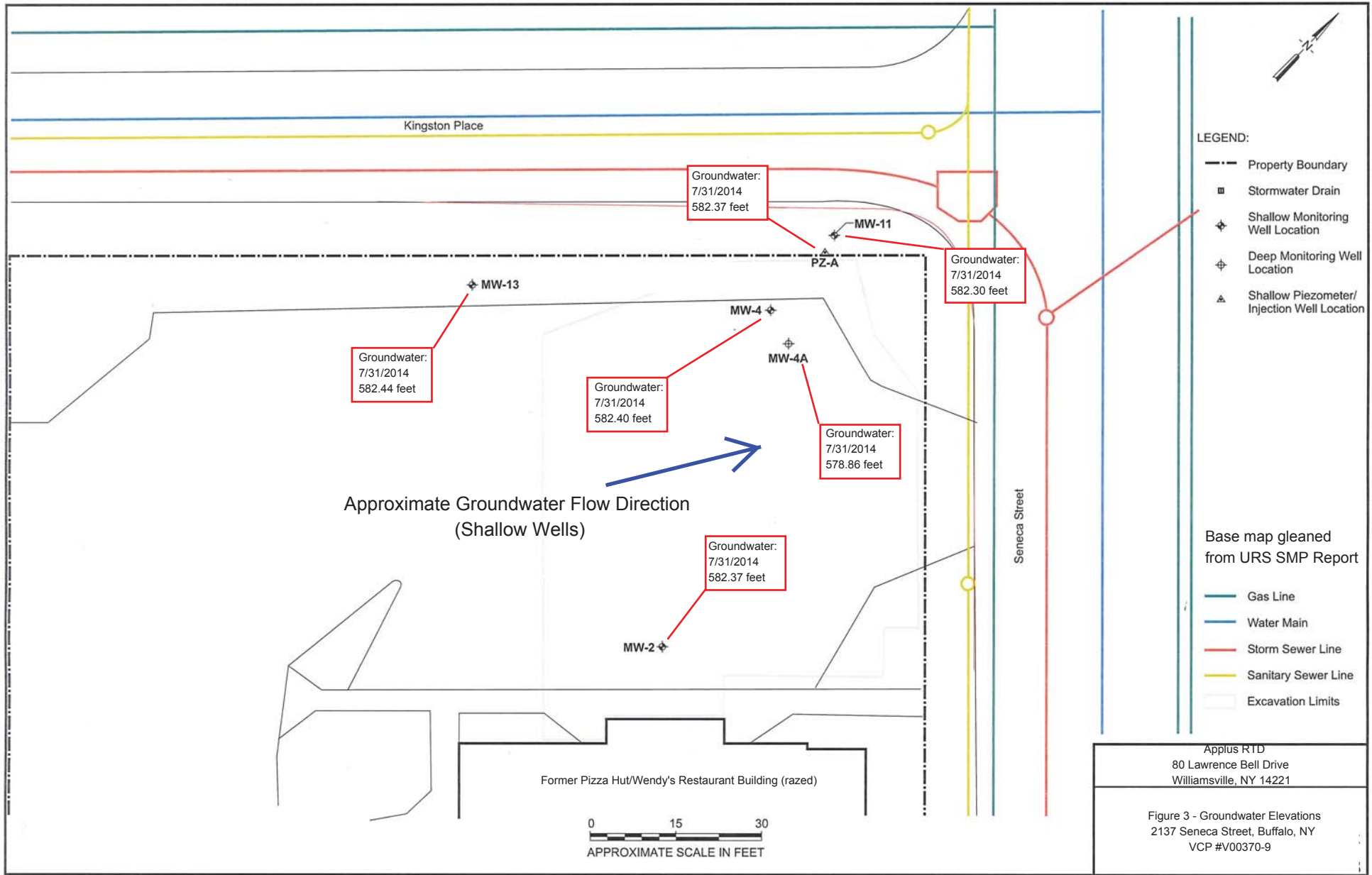
- | | |
|--------------------------------------|---------------------|
| Ø UTILITY / SERVICE POLE | R.O.W. RIGHT OF WAY |
| ⊗ WATER LINE VALVE | CONC. CONCRETE |
| ⊗ FIRE HYDRANT | INV. INVERT |
| □ D.I. (DROP INLET - STORM) | M.H. MANHOLE |
| ⊙ MANHOLE (STORM) | —G— GAS LINE |
| ⊙ MANHOLE (ELECTRIC) | —W— WATER LINE |
| ⊙ MANHOLE (TRAFFIC) | —T— TELEPHONE LINE |
| ⊙ MANHOLE (SANITARY) | —E— ELECTRIC LINE |
| • LDR (LIGHT DUTY RECEIVER - STORM) | —P— UTILITY LINES |
| • BYD (BACKYARD DRAIN INLET - STORM) | —C— CABLE LINES |
| ⊗ GAS LINE VALVE | D. DEED |
| ⊗ LIGHT STANDARD | M. MEASURED |
| —O— SIGN | L. LIBER |
| H.C. HANDICAP | P. PAGE |

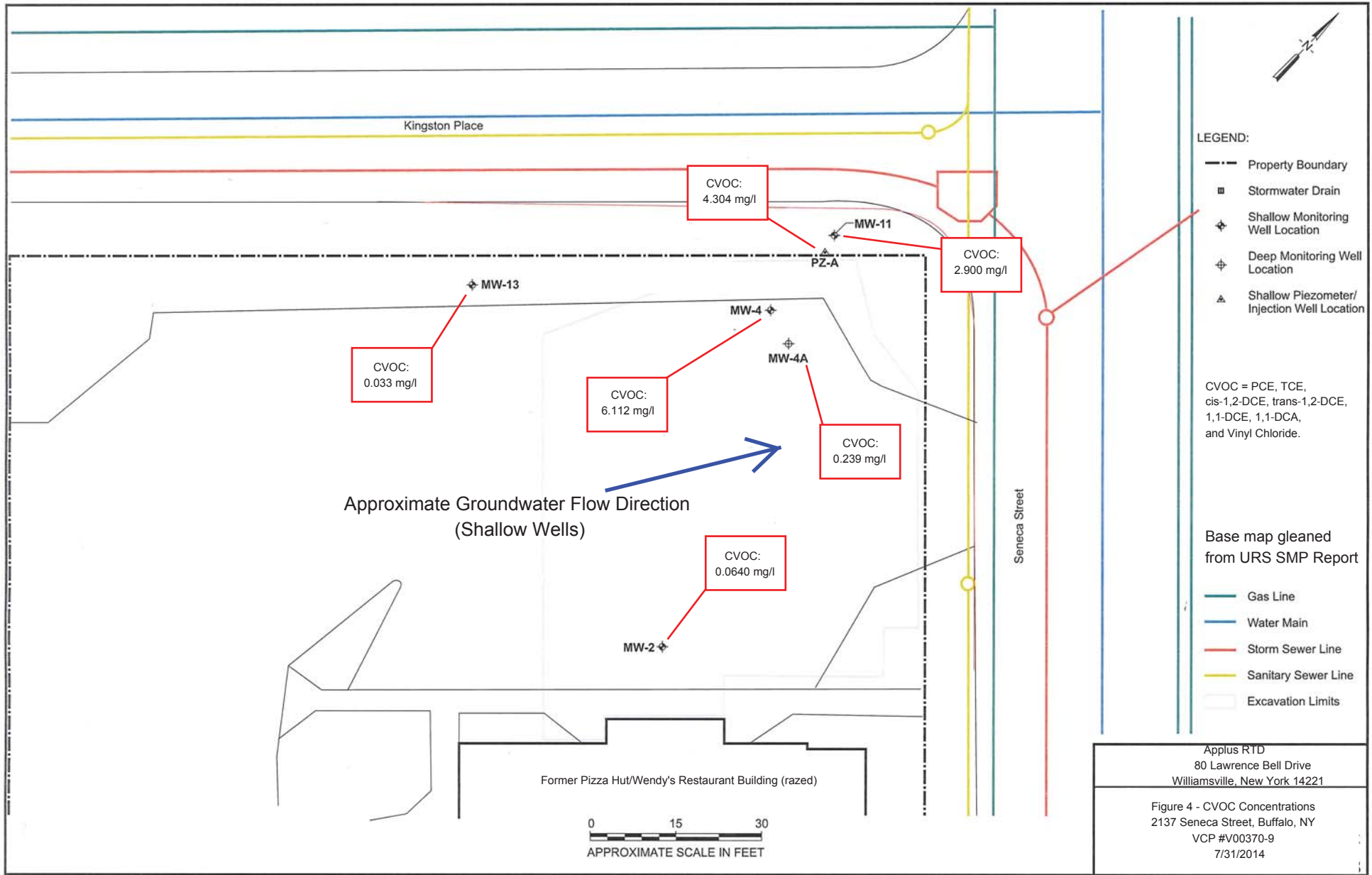
NOTE:
BUILDING OFFSETS & SETBACKS
MEASURED TO FOUNDATIONS

INSTRUMENT(S) UTILIZED IN DETERMINING LOCATION OF BOUNDARY LINES: LIBER 9439 PAGE 654

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED IN SAID ABSTRACT.
NOTE: PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.

<p>THIS SURVEY MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR LAND SURVEYS ADOPTED BY THE BAR ASSOCIATION OF ERIE COUNTY AT THE REQUEST OF Creative Structures Services</p> <p> FRANCIS C. DELLES</p> <p>NYSPLS No. 050477</p>	<p>©COPYRIGHT 2012 BY:</p> <p>Millard, MacKay & Delles</p> <p>LAND SURVEYORS, LLP</p> <p>150 AERO DRIVE BUFFALO, NEW YORK 14225 PHONE (716) 631-5140 ~ FAX 631-3811</p>	<p>AMEND:</p> <p>SURVEY DATE: 3-14-12</p> <p>©DRAWING DATE: 3-16-12</p> <p>SCALE: 1" = 20'</p> <p>"ALL RIGHTS RESERVED"</p>
<p>FINAL AS-BUILT SURVEY</p> <p>PART OF LOT <u>52</u> SECTION <u> </u> TOWNSHIP <u>10</u> RANGE <u>7</u> OF THE:</p> <p><u>Buffalo Creek Reservation</u> SURVEY - <u>Erie</u> COUNTY, N.Y.</p> <p>SURVEY OF: <u>2137 Seneca Street, City of Buffalo</u></p>		<p>THIS MAP VOID UNLESS EMBOSSED</p> <p>WITH NEW YORK STATE LICENSED LAND SURVEYOR'S SEAL. ALTERING ANY ITEM ON THIS MAP IS A VIOLATION OF THE LAW EXCEPT AS PROVIDED IN SECTION 7209, PART 2, OF THE NEW YORK STATE EDUCATION LAW.</p> <p>SBL No. <u>133.26-7-1.1</u></p>





MEASUREMENT OF GROUNDWATER LEVELS

Site Name / Number: Parcel 2 - 2137 Seneca St. / VCA 00370-9 Date: 05 / 03 / 2016
 Owner: Richard/Margaret Weiczorek (Part Owners) By: Applus RTD
 Location: Buffalo, NY Meas. Method Electronic Water Level Indicator

[illegible]

APPLUS RTD USA
80 Lawrence Bell Drive
Williamsville, New York 14221
O: 716-279-3525
F: 716-634-5759

TABLE 1
GROUNDWATER ELEVATIONS
2137 SENECA STREET
BUFFALO, NEW YORK

		<u>6/7/2006</u>	<u>3/20/2007</u>	<u>12/5/2007</u>	<u>7/1/2008</u>	<u>3/18/2009</u>	<u>6/4/2009</u>	<u>2/11/2010</u>	<u>6/23/2010</u>	<u>4/19/2013</u>	<u>11/15/2013</u>	<u>7/31/2014</u>	<u>5/3/2016</u>
Well No.	Top of Casing (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)	Groundwater Elevation (feet)
<u>Shallow Wells</u>													
MW-2	590.24	581.79	582.91	582.82	583.25	583.26	582.30	581.93	582.53	583.12	582.82	582.37	582.88
MW-4	589.47	581.67	582.83	582.78	583.15	583.12	583.13	581.92	582.47	583.04	582.74	582.40	582.81
MW-11	589.48	581.58	582.60	582.72	583.09	582.95	582.06	581.82	582.43	582.96	582.70	582.30	582.80
MW-13	589.77	581.68	582.85	582.76	583.23	582.52	582.08	581.86	582.45	583.04	582.73	582.44	581.65
PZ-A	589.86	581.66	582.81	582.49	582.01	582.78	581.85	581.55	582.38	582.98	582.71	582.37	582.78
<u>Deep Well</u>													
MW-4A	589.04	578.74	579.28	578.96	578.98	579.30	578.62	578.89	578.90	579.12	579.07	578.86	579.80

TABLE 2 - ANALYTICAL RESULTS

LOCATION				MW-2	MW-4	MW-4A	MW-11	MW-13	PZ-A	MW-13 (DUP)
SAMPLING DATE				5/3/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016
LAB SAMPLE ID				L1613229-01	L1613229-02	L1613229-03	L1613229-04	L1613229-05	L1613229-06	L1613229-07
	Cas Num	NY AWQS	Units	Results	Results	Results	Results	Results	Results	Results
Volatile Organics by GC/MS										
Tetrachloroethene	127-18-4	5	ug/l	0.5	20	2.5	0.5	0.5	10	0.5
Vinyl chloride	75-01-4	2	ug/l	8.2	1500	770	46	8.4	1200	7.9
Trichloroethene	79-01-6	5	ug/l	0.47	20	2.5	0.5	0.54	10	0.56
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	100	12	2.5	1.5	50	1.4
cis-1,2-Dichloroethene	156-59-2	5	ug/l	19	3300	450	52	12	1800	10
Acetone	67-64-1	50	ug/l	5	200	25	5	5	100	5
Carbon disulfide	75-15-0	60	ug/l	5	200	25	5	2.6	100	2.4
Cumulative CVOC Concentration (ug/l)				28.2	4,840.0	1,225.0	99.0	21.4	3,020.0	19.0
Previous Cum. CVOC Concentration (ug/l) 7/31/2014				63.2	6,112.0	239.0	2,900.0	32.5	4,303.6	NA

*NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

Samples collected on May 3, 2016 were analyzed by Alpha Analytical

NM= Not Measured

NA= Not Analyzed

J= Estimated concentration below reporting limit

D= Diluted sample

Note: CVOCs are the sum of PCE and its potential breakdown products (TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, and Vinyl Chloride)

APPENDIX B – IC/EC CERTIFICATIONS

APPENDIX B-1 – OWNER CERTIFICATION

Back to Message Owner PRR Cert - Unsigned.pdf 3 / 4

✖ ✖ ✖



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Site Management Periodic Review Report Notice
 Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	V00370	
Site Name: Former Pizza Hut		
Site Address: 2137 Seneca Street	Zip Code: 14210	
City/Town: Buffalo		
County: Erie		
Site Acreage: 0.7		
Reporting Period: March 1, 2015 through May 31, 2016		
		YES NO
1. Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Box 2		
	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
<u>Richard M. Wiegorek</u> Signature of Owner, Remedial Party or Designated Representative		<u>6/30/2016</u> Date

SITE NO V00370

Box 3

SITE NO. V00370

Box 3

Ground Water Use Restriction
Landuse Restriction
Site Management Plan

Of the groundwater underlying the site is also prohibit without proper treatment.

The Site Management Plan includes provisions for continued groundwater monitoring, inspection of the existing site cover, disposition of excavated soils and evaluating the potential for intrusive soil vapors if the building on site is ever reoccupied or another building constructed in its place.

133.25-07-1.1

Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Richard M. Whelan
Signature of Owner, Remedial Party or Designated Representative

6/30/2016
Date

IC CERTIFICATIONS
SITE NO. V00370**Box 6****SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I RICHARD M. WIECZOREK at 2137 SENECA ST. BUFFALO, N.Y.
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Richard M. Wieczorek
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

6/30/2016
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Donald Borkowski at 80 Lawrence Bell Dr., Williamsville N.Y.
print name print business address

Richard/Margaret Wieczorek (66%)

am certifying as a Professional Engineer for the Mitchell/Sofia Maxick (24%)
(Owner for Remedial Party)



Donald Borkowski PE

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

27 June 2016
Date

Stamp
(Required for PE)

APPENDIX B-2 – SITE INSPECTION FORMS

**INSPECTION FORM
COVER SYSTEM**

Inspector's Name Andrew J. Kucserik / Applus RTD USA
Date and Time of Inspection May 3, 2015; 9:00 AM
Date of Last Inspection July 31, 2014
Purpose for Inspection: Annual/Periodic: Annual
Post-excavation or surface repair: _____
After significant weather events: _____
Observed damage requiring inspection / Other: _____

INSPECTION CHECKLIST

1. Vegetative cover along Kingston Place

Walk the length of the vegetative cover.

Comments

- Are there any bare spots in the vegetation cover? ☐ Yes ☒ No _____
- Are there any signs of damaged or diseased vegetation? ☒ Yes ☐ No Some dead/dying bushes along Seneca St.
- Are there any signs of excessive erosion? ☐ Yes ☒ No _____
- Is there new root exposure or new woody plants established? ☐ Yes ☒ No _____
- Are there any signs of burrowing animals? ☐ Yes ☒ No _____
- Any other Observations? _____

2. Sidewalk along Kingston Place and Seneca Street, walkways around building, Asphalt pavement associated with parking lot and access way to road

Walk the length of the sidewalks.

Comments

- Are there any cracks greater than 1/2-inch apart? ☐ Yes ☒ No _____
- Are there any signs of raised pavement associated with plant roots or subsurface subsidence? ☐ Yes ☒ No _____
- Are there any signs of extensive deterioration of pavement? ☐ Yes ☒ No _____
- Any other Observations? _____

3. Remedial Action Required The dead or dying bushes should be replaced as part of the cover system.

4. Inspector's Signature Andrew J. Kucserik

RETURN COMPLETED FORM TO PROPERTY OWNER REPRESENTATIVE

SITE-WIDE INSPECTION FORM

Inspector's Name Andrew J. Kucserik / Applus RTD USA
Date and Time of Inspection May 3, 2015; 9:00 AM
Date of Last Inspection July 31, 2014

Purpose for Inspection: Annual/Periodic: Annual
Changes to Site Use: _____
Property Owner Transfer: _____
Changes in Site Condition / Other: _____

SITE OWNERSHIP AND USE

Richard/Margaret Wieczorek (66%)

1. Site Owner: Mitchell/Sofia Maxick (34%) New Owner since last inspection? ☒ Yes ☐ No
2. Name of Establishment: Dollar General (retail store)
3. Current Site Use: ☒ Commercial ☐ Industrial ☐ Unoccupied ☐ Other: _____
4. Are there any tenants residing on Site? ☐ Yes* ☒ No
5. Does the Site Use include a day care, child care, or medical Care facility? ☐ Yes* ☒ No
6. Does the Site Use include a vegetable garden? ☐ Yes* ☒ No
7. Does the Site utilize on Site groundwater for irrigation, potable use, or other use? ☐ Yes* ☒ No
8. Has the soil cover been compromised such that contamination has been encountered? ☐ Yes* ☒ No

"*": Any conditions associated with an asterisk require review of the VCA and Declaration of Covenants and Restrictions (Appendix A and B of the SMP) and potential notification to NYSDEC to verify that this use is currently appropriate for the Site.

MEDIA MONITORING STATUS

1. Has a soil cover inspection been conducted since the last site-wide inspection? ☒ Yes ☐ No
Inspection Date: May 3, 2016 (Please attach copy(s) of inspection form)
2. Has groundwater monitoring performed since the past inspection? ☒ Yes ☐ No
Monitoring Dates: May 3, 2016 _____
3. Remedial Action Required No

4. Inspector's Signature Andrew J. Kucserik

RETURN COMPLETED FORM TO PROPERTY OWNER REPRESENTATIVE AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)

Parcel 2 – 2137 Seneca Street
NYSDEC VCP Site Number: V-00370-9
Site Management Plan

I

Buffalo, NY
12/7/10

APPENDIX C – ANALYTICAL DATA



ANALYTICAL REPORT

Lab Number:	L1613229
Client:	Quality Inspection Services Inc. 37 Franklin Street Suite 400 Buffalo, NY 14202
ATTN:	Andrew Kucserik
Phone:	(716) 853-2611
Project Name:	DOLLAR GENERAL UCP
Project Number:	Not Specified
Report Date:	05/13/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: DOLLAR GENERAL UCP
Project Number: Not Specified

Lab Number: L1613229
Report Date: 05/13/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1613229-01	MW-2	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 13:41	05/03/16
L1613229-02	MW-4	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:15	05/03/16
L1613229-03	MW-4A	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:36	05/03/16
L1613229-04	MW-11	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:43	05/03/16
L1613229-05	MW-13	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:25	05/03/16
L1613229-06	PZ-A	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:55	05/03/16
L1613229-07	DUPLICATE	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 14:30	05/03/16
L1613229-08	TRIP BLANK	WATER	2139 SENECA ST., BUFFALO, NY	05/03/16 00:00	05/03/16

Project Name: DOLLAR GENERAL UCP
Project Number: Not Specified

Lab Number: L1613229
Report Date: 05/13/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: DOLLAR GENERAL UCP
Project Number: Not Specified

Lab Number: L1613229
Report Date: 05/13/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lura L Troy

Title: Technical Director/Representative

Date: 05/13/16

ORGANICS

VOLATILES

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-01
Client ID: MW-2
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 12:12
Analyst: PD

Date Collected: 05/03/16 13:41
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.50		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	8.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.47	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS****Lab ID:** L1613229-01**Date Collected:** 05/03/16 13:41**Client ID:** MW-2**Date Received:** 05/03/16**Sample Location:** 2139 SENECA ST., BUFFALO, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	19		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	95		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-02 D
Client ID: MW-4
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 12:40
Analyst: PD

Date Collected: 05/03/16 14:15
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	100	28.	40
1,1-Dichloroethane	ND		ug/l	100	28.	40
Chloroform	ND		ug/l	100	28.	40
Carbon tetrachloride	ND		ug/l	20	5.4	40
1,2-Dichloropropane	ND		ug/l	40	5.3	40
Dibromochloromethane	ND		ug/l	20	6.0	40
1,1,2-Trichloroethane	ND		ug/l	60	20.	40
Tetrachloroethene	ND		ug/l	20	7.2	40
Chlorobenzene	ND		ug/l	100	28.	40
Trichlorofluoromethane	ND		ug/l	100	28.	40
1,2-Dichloroethane	ND		ug/l	20	5.3	40
1,1,1-Trichloroethane	ND		ug/l	100	28.	40
Bromodichloromethane	ND		ug/l	20	7.7	40
trans-1,3-Dichloropropene	ND		ug/l	20	6.6	40
cis-1,3-Dichloropropene	ND		ug/l	20	5.8	40
Bromoform	ND		ug/l	80	26.	40
1,1,2,2-Tetrachloroethane	ND		ug/l	20	5.8	40
Benzene	ND		ug/l	20	6.4	40
Toluene	ND		ug/l	100	28.	40
Ethylbenzene	ND		ug/l	100	28.	40
Chloromethane	ND		ug/l	100	28.	40
Bromomethane	ND		ug/l	100	28.	40
Vinyl chloride	1500		ug/l	40	2.8	40
Chloroethane	ND		ug/l	100	28.	40
1,1-Dichloroethene	ND		ug/l	20	5.7	40
trans-1,2-Dichloroethene	ND		ug/l	100	28.	40
Trichloroethene	ND		ug/l	20	7.0	40
1,2-Dichlorobenzene	ND		ug/l	100	28.	40
1,3-Dichlorobenzene	ND		ug/l	100	28.	40
1,4-Dichlorobenzene	ND		ug/l	100	28.	40

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-02 D
 Client ID: MW-4
 Sample Location: 2139 SENECA ST., BUFFALO, NY

Date Collected: 05/03/16 14:15
 Date Received: 05/03/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	100	28.	40
p/m-Xylene	ND		ug/l	100	28.	40
o-Xylene	ND		ug/l	100	28.	40
cis-1,2-Dichloroethene	3300		ug/l	100	28.	40
Styrene	ND		ug/l	100	28.	40
Dichlorodifluoromethane	ND		ug/l	200	40.	40
Acetone	ND		ug/l	200	58.	40
Carbon disulfide	ND		ug/l	200	40.	40
2-Butanone	ND		ug/l	200	78.	40
4-Methyl-2-pentanone	ND		ug/l	200	40.	40
2-Hexanone	ND		ug/l	200	40.	40
Bromochloromethane	ND		ug/l	100	28.	40
1,2-Dibromoethane	ND		ug/l	80	26.	40
1,2-Dibromo-3-chloropropane	ND		ug/l	100	28.	40
Isopropylbenzene	ND		ug/l	100	28.	40
1,2,3-Trichlorobenzene	ND		ug/l	100	28.	40
1,2,4-Trichlorobenzene	ND		ug/l	100	28.	40
Methyl Acetate	ND		ug/l	80	9.4	40
Cyclohexane	ND		ug/l	400	11.	40
1,4-Dioxane	ND		ug/l	10000	1600	40
Freon-113	ND		ug/l	100	28.	40
Methyl cyclohexane	ND		ug/l	400	16.	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	95		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-03 D
Client ID: MW-4A
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 13:08
Analyst: PD

Date Collected: 05/03/16 14:36
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.66	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.72	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	770		ug/l	5.0	0.35	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.71	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-03 D
 Client ID: MW-4A
 Sample Location: 2139 SENECA ST., BUFFALO, NY

Date Collected: 05/03/16 14:36
 Date Received: 05/03/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	450		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	ND		ug/l	50	1.4	5
1,4-Dioxane	ND		ug/l	1200	200	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	ND		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	95		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-04
Client ID: MW-11
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 16:54
Analyst: PD

Date Collected: 05/03/16 14:43
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	46		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS****Lab ID:** L1613229-04**Date Collected:** 05/03/16 14:43**Client ID:** MW-11**Date Received:** 05/03/16**Sample Location:** 2139 SENECA ST., BUFFALO, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	52		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	96		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-05
Client ID: MW-13
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 17:22
Analyst: PD

Date Collected: 05/03/16 14:25
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	8.4		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.54		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS****Lab ID:** L1613229-05**Date Collected:** 05/03/16 14:25**Client ID:** MW-13**Date Received:** 05/03/16**Sample Location:** 2139 SENECA ST., BUFFALO, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	1.5	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	12		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	2.6	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-06 D
Client ID: PZ-A
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 17:50
Analyst: PD

Date Collected: 05/03/16 14:55
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	2.9	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	1200		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	2.8	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-06 D
 Client ID: PZ-A
 Sample Location: 2139 SENECA ST., BUFFALO, NY

Date Collected: 05/03/16 14:55
 Date Received: 05/03/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	1800		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	820	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	99		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-07
Client ID: DUPLICATE
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 18:19
Analyst: PD

Date Collected: 05/03/16 14:30
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	7.9		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.56		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS****Lab ID:** L1613229-07**Date Collected:** 05/03/16 14:30**Client ID:** DUPLICATE**Date Received:** 05/03/16**Sample Location:** 2139 SENECA ST., BUFFALO, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	1.4	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	10		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	2.4	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	71		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	87		70-130

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS**

Lab ID: L1613229-08
Client ID: TRIP BLANK
Sample Location: 2139 SENECA ST., BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/12/16 11:44
Analyst: PD

Date Collected: 05/03/16 00:00
Date Received: 05/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**SAMPLE RESULTS****Lab ID:** L1613229-08**Date Collected:** 05/03/16 00:00**Client ID:** TRIP BLANK**Date Received:** 05/03/16**Sample Location:** 2139 SENECA ST., BUFFALO, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	95		70-130

Project Name: DOLLAR GENERAL UCP

Lab Number: L1613229

Project Number: Not Specified

Report Date: 05/13/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/12/16 11:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG893326-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DOLLAR GENERAL UCP

Lab Number: L1613229

Project Number: Not Specified

Report Date: 05/13/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/12/16 11:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG893326-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	0.86	J	ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 05/12/16 11:16

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG893326-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DOLLAR GENERAL UCP

Project Number: Not Specified

Lab Number: L1613229

Report Date: 05/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG893326-1 WG893326-2								
Methylene chloride	105		104		70-130	1		20
1,1-Dichloroethane	95		95		70-130	0		20
Chloroform	98		97		70-130	1		20
Carbon tetrachloride	98		97		63-132	1		20
1,2-Dichloropropane	98		93		70-130	5		20
Dibromochloromethane	90		93		63-130	3		20
1,1,2-Trichloroethane	92		94		70-130	2		20
Tetrachloroethene	113		115		70-130	2		20
Chlorobenzene	104		106		75-130	2		20
Trichlorofluoromethane	106		106		62-150	0		20
1,2-Dichloroethane	80		81		70-130	1		20
1,1,1-Trichloroethane	99		97		67-130	2		20
Bromodichloromethane	94		92		67-130	2		20
trans-1,3-Dichloropropene	84		86		70-130	2		20
cis-1,3-Dichloropropene	93		95		70-130	2		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	85		91		67-130	7		20
Benzene	105		106		70-130	1		20
Toluene	106		112		70-130	6		20
Ethylbenzene	104		107		70-130	3		20

Lab Control Sample Analysis Batch Quality Control

Project Name: DOLLAR GENERAL UCP

Project Number: Not Specified

Lab Number: L1613229

Report Date: 05/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG893326-1 WG893326-2								
Chloromethane	112		112		64-130	0		20
Bromomethane	143	Q	133		39-139	7		20
Vinyl chloride	120		119		55-140	1		20
Chloroethane	127		126		55-138	1		20
1,1-Dichloroethene	112		112		61-145	0		20
trans-1,2-Dichloroethene	108		109		70-130	1		20
Trichloroethene	106		108		70-130	2		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	104		107		70-130	3		20
1,4-Dichlorobenzene	102		104		70-130	2		20
Methyl tert butyl ether	80		81		63-130	1		20
p/m-Xylene	113		116		70-130	3		20
o-Xylene	109		112		70-130	3		20
cis-1,2-Dichloroethene	105		106		70-130	1		20
Dibromomethane	94		90		70-130	4		20
1,2,3-Trichloropropane	84		88		64-130	5		20
Acrylonitrile	74		73		70-130	1		20
Isopropyl Ether	76		76		70-130	0		20
tert-Butyl Alcohol	90		83		70-130	8		20
Styrene	115		116		70-130	1		20
Dichlorodifluoromethane	106		106		36-147	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DOLLAR GENERAL UCP

Project Number: Not Specified

Lab Number: L1613229

Report Date: 05/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG893326-1 WG893326-2								
Acetone	81		76		58-148	6		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	82		62	Q	63-138	28	Q	20
Vinyl acetate	72		67	Q	70-130	7		20
4-Methyl-2-pentanone	70		71		59-130	1		20
2-Hexanone	55	Q	59		57-130	7		20
Bromochloromethane	106		108		70-130	2		20
2,2-Dichloropropane	89		86		63-133	3		20
1,2-Dibromoethane	96		95		70-130	1		20
1,3-Dichloropropane	89		93		70-130	4		20
1,1,1,2-Tetrachloroethane	96		99		64-130	3		20
Bromobenzene	105		111		70-130	6		20
n-Butylbenzene	103		104		53-136	1		20
sec-Butylbenzene	109		111		70-130	2		20
tert-Butylbenzene	109		110		70-130	1		20
o-Chlorotoluene	104		99		70-130	5		20
p-Chlorotoluene	103		105		70-130	2		20
1,2-Dibromo-3-chloropropane	61		64		41-144	5		20
Hexachlorobutadiene	106		112		63-130	6		20
Isopropylbenzene	111		116		70-130	4		20
p-Isopropyltoluene	110		111		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DOLLAR GENERAL UCP

Project Number: Not Specified

Lab Number: L1613229

Report Date: 05/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG893326-1 WG893326-2								
Naphthalene	51	Q	58	Q	70-130	13		20
n-Propylbenzene	110		115		69-130	4		20
1,2,3-Trichlorobenzene	54	Q	61	Q	70-130	12		20
1,2,4-Trichlorobenzene	59	Q	66	Q	70-130	11		20
1,3,5-Trimethylbenzene	110		113		64-130	3		20
1,2,4-Trimethylbenzene	107		108		70-130	1		20
Methyl Acetate	67	Q	66	Q	70-130	2		20
Ethyl Acetate	57	Q	56	Q	70-130	2		20
Cyclohexane	91		90		70-130	1		20
Ethyl-Tert-Butyl-Ether	84		78		70-130	7		20
Tertiary-Amyl Methyl Ether	80		81		66-130	1		20
1,4-Dioxane	95		95		56-162	0		20
Freon-113	100		99		70-130	1		20
1,4-Diethylbenzene	105		107		70-130	2		20
4-Ethyltoluene	103		106		70-130	3		20
1,2,4,5-Tetramethylbenzene	80		85		70-130	6		20
Ethyl ether	89		91		59-134	2		20
trans-1,4-Dichloro-2-butene	64	Q	66	Q	70-130	3		20
Methyl cyclohexane	98		101		70-130	3		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DOLLAR GENERAL UCP**Lab Number:** L1613229**Project Number:** Not Specified**Report Date:** 05/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG893326-1 WG893326-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	80		78		70-130
Toluene-d8	97		101		70-130
4-Bromofluorobenzene	95		99		70-130
Dibromofluoromethane	96		93		70-130

Project Name: DOLLAR GENERAL UCP**Project Number:** Not Specified**Lab Number:** L1613229**Report Date:** 05/13/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1613229-01A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-01B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-01C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-02A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-02B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-02C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-03A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-03B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-03C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-04A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-04B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-04C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-05A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-05B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-05C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-06A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-06B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-06C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-07A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-07B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-07C	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-08A	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)
L1613229-08B	Vial HCl preserved	A	N/A	4.7	Y	Absent	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: DOLLAR GENERAL UCP
Project Number: Not Specified

Lab Number: L1613229
Report Date: 05/13/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: DOLLAR GENERAL UCP
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Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: DOLLAR GENERAL UCP
Project Number: Not Specified

Lab Number: L1613229
Report Date: 05/13/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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