
REMEDIAL INVESTIGATION REPORT

BESTWAY CLEANERS CITY OF BUFFALO, ERIE COUNTY, NEW YORK SITE NO. 915219

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TABLE OF CONTENTS

	<u>Page</u>
SECTION 1 INTRODUCTION.....	1-1
1.1 SITE OVERVIEW.....	1-1
1.2 LAND USE ADJACENT TO THE SITE	1-1
1.3 SITE HISTORY.....	1-1
1.4 PREVIOUS INVESTIGATIONS.....	1-2
SECTION 2 REMEDIAL INVESTIGATION ACTIVITIES	2-1
2.1 UTILITY SURVEY AND MANUAL EXCAVATION	2-1
2.2 SURFACE SOIL SAMPLING.....	2-1
2.3 STORM SEWER SEDIMENT SAMPLING	2-1
2.4 SOIL BORING INSTALLATION.....	2-2
2.5 MONITORING WELL INSTALLING AND DEVELOPMENT	2-3
2.6 GROUNDWATER SAMPLING.....	2-3
2.7 SOIL VAPOR INTRUSION INVESTIGATION	2-4
2.8 SURVEYING	2-4
2.9 GROUNDWATER ELEVATION SURVEY	2-5
2.10 MANAGEMENT OF INVESTIGATION-DERIVED WASTE.....	2-5
2.11 DATA VALIDATION AND REPORTING	2-5
SECTION 3 REMEDIAL INVESTIGATION RESULTS.....	3-1
3.1 SITE GEOLOGY.....	3-1
3.2 SITE HYDROGEOLOGY	3-1
3.3 SOIL INVESTIGATION RESULTS	3-2

TABLE OF CONTENTS - CONTINUED

	<u>Page</u>
3.4 GROUNDWATER INVESTIGATION RESULTS.....	3-4
3.5 SOIL VAPOR INTRUSION RESULTS	3-5
SECTION 4 NATURE AND EXTENT OF CONTAMINATION	4-1
4.1 SOIL	4-1
4.2 STORM SEWER SEDIMENT.....	4-1
4.3 GROUNDWATER.....	4-1
4.4 SOIL VAPOR.....	4-2
SECTION 5 EXPOSURE ASSESSMENT	5-1
SECTION 6 CONCLUSIONS	6-1

List of Figures

Figure 1 Site Location Map

Figure 2 Sample and Cross Section Location Map

Figure 3 Cross Section A-A'

Figure 4 Cross Section B-B'

Figure 5 Water Table Elevations and Flow Direction Map - November 2013

Figure 6 Water Table Elevations and Flow Direction Map – June 2016

Figure 7 Compound Plumes Map – November 2013

Figure 8 Compound Plumes Map – June 2016

Figure 9 2008, 2013 and 2016 Summary of Chlorinated Solvents in Groundwater

Figure 10 2013 Soil Vapor Results

TABLE OF CONTENTS - CONTINUED

List of Tables

Table 1	2013 and 2016 Sampling and Analysis Summary
Table 2	2013 and 2016 Groundwater Elevation Data
Table 3	2013 Surface Soil Analytical Results
Table 4	2013 Subsurface Soil Analytical Results
Table 5	2013 Sediment Analytical Results
Table 6	2013 and 2016 Monitoring Well Groundwater Purging Field Parameter Results
Table 7	2013 and 2016 Groundwater Analytical Results
Table 8	2013 Soil Vapor Intrusion Analytical Results

List of Appendices

APPENDIX A	SOIL BORING LOGS, MONITORING WELL LOGS, AND WELL DEVELOPMENT LOGS
APPENDIX B	GROUNDWATER SAMPLING LOGS
APPENDIX C	INVESTIGATION PHOTOGRAPHS
APPENDIX D	DATA USABILITY SUMMARY REPORT
APPENDIX E	SOIL VAPOR INTRUSION FIELD DATA
APPENDIX F	INVESTIGATION DERIVED WASTE DISPOSAL

Separate Cover

Soil Vapor Intrusion Sample Location Key

ACRONYMS

ACM	Asbestos-Containing Material
CCTV	Closed Circuit Television
CFR	Code of Federal Regulations
cm	Centimeter
CMP	Corrugated Metal Pipe
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Accreditation Program
f/cc	Fibers Per Cubic Centimeter
ft.	Feet, Foot
ICR 56	Industrial Code Rule 56
Mg/Kg	milligrams per kilogram
NELAP	National Environmental Laboratory Approval Program National Environmental Laboratory Approval Program
NIOSH	National Institute for Occupational Safety and Health
NOB	Non-Friable, Organically Bound
NTU	Nephelometric Turbidity Units
NVLAP	National Voluntary Laboratory Accreditation Program
NYCRR	New York State Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOL	New York State Department of Labor
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PE	Professional Engineer
PID	photoionization detector

PLM	Polarized Light Microscopy
ppm	Parts Per Million
QA/QC	Quality Assurance and Quality Control
RCP	Reinforced Concrete Pipe
RCRA	Resource Conservation and Recovery Act
RF	Radio Frequency
SPT	Standard Penetration Test
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TEM	Transmission Electron Microscopy
ug/L	Microgram Per Liter Of Water
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

SECTION 1

INTRODUCTION

This Remedial Investigation Report presents the results of the Site Characterization and Remedial Investigation (RI) activities conducted at Bestway Cleaners (Site), located at 2075 Seneca Street, Buffalo, Erie County, New York (Figure 1). The RI activities were performed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved scope of work for the Bestway Cleaners Site (Parsons, August 2013, October 2015, and March 2016).

The purpose of the remedial investigation was to determine the extent of perchloroethylene (also known as tetrachlorethylene or PCE) and related chlorinated byproducts, in soil, groundwater, sediment and soil vapor in the vicinity of the Site; identify and characterize the extent of PCE and related chlorinated byproducts at the Site; describe site conditions affecting transport of contaminants away from the Site; and assess impacts associated with contamination at the Site.

1.1 SITE OVERVIEW

Bestway Cleaners (Site) is a 0.2-acre parcel located at 2075 Seneca Street in Buffalo, Erie County, New York. The parcel includes an active dry cleaning facility located in a densely populated commercial and residential area on the southeast side of Buffalo. The parcel is mostly paved and includes a retail building, containing a pizzeria and dry cleaner, with paved parking areas in the front and rear of the building. Photographs taken during the RI are included in Appendix C. Dry cleaning operations began at the Site in 1965 and are still active.

Local land surface topography is relatively flat. The nearest surface water body is Cazenovia Creek, which is located approximately 800 ft. to the southwest of the Site. Cazenovia Creek flows to the northwest where it empties into the Buffalo River northwest of the study area. Stormwater from the area is conveyed to Cazenovia Creek via the storm sewers. The storm sewers discharge to the outfall into Cazenovia Creek (see Figure 2).

1.2 LAND USE ADJACENT TO THE SITE

Bestway Cleaners is bordered to the northeast by Seneca Street, to the northwest by Yale Place, to the southeast by commercial properties and to the southwest by residential properties. Cazenovia Creek is approximately 800 feet to the southwest of the Bestway Cleaners. As previously stated, a pizza shop occupies the same building as Bestway Cleaners (Figure 1 and 2).

1.3 SITE HISTORY

Bestway Cleaners is currently an active dry cleaner established in 1965. Historical information shows that the property was originally developed as a dwelling in 1900 and remained unchanged until 1917. Various improvements were made to the property between 1917 and 1960 including a retail store/dwelling (Camp, Dresser, & McKee, April, 2009).

1.4 PREVIOUS INVESTIGATIONS

Prior investigations conducted at or in the vicinity of the Site include the following:

- Pizza Hut Off-Site Characterization in 2006 (O'Brien & Gere, December 2006). The Pizza Hut investigation area overlapped the area investigated during the Bestway Cleaners Site Characterization and RI.
- Site Characterization in April 2009 at the Bestway site (Camp, Dresser, & McKee (CDM), April, 2009);

Bestway Cleaners site investigation and site characterization activities prior to this RI included soil borings, surface soil and subsurface soil sampling, soil vapor sampling, monitoring well installations, and groundwater sampling. A total of 14 monitoring wells (GW-1 through GW-9, MW-1, MW-7, MW-8, MW-9, and MW-10) were placed previously in the vicinity of Bestway Cleaners during the 2009 site characterization. Three of the soil boring locations (GP-1, GP-7 and GP-9) and three temporary monitoring points (MW-1, MW-7, MW-9) were completed as temporary ground water monitoring points. The temporary monitoring wells were backfilled with bentonite after sampling in the 2009 site characterization.

SECTION 2

REMEDIAL INVESTIGATION ACTIVITIES

This section describes the investigation activities conducted at Bestway Cleaners site as part of the 2013-2016 RI. Site activities were conducted by Parsons in accordance with the NYSDEC-approved scope of work (Parsons, August 2013, October 2015, and March 2016). The scope of RI site activities included utility clearance, geophysical (utility clearance) and wellhead elevation and location surveys, soil borings, soil sampling, groundwater monitoring well installation and two rounds sampling, storm sewer sampling, and indoor air and sub-slab vapor samples. In October 2015, subsurface soil and groundwater samples were collected from the boring and temporary piezometer location inside the Bestway Cleaners building. In June 2016 another round of groundwater samples was collected. Sampling locations are shown in Figure 2. Table 1 provides a summary of samples submitted for laboratory analysis during the RI field investigation activities. Appendix C contains photographs of the site and nearby areas that were part of this RI.

2.1 UTILITY SURVEY AND MANUAL EXCAVATION

RI soil borings proposed in the scope of work were located onsite and nearby vicinity, considering the presence of overhead utilities and local traffic and parking patterns. A geophysical survey contractor specifically identified subsurface utility locations in the vicinity of soil borings prior to drilling. As an additional precaution following identification of subsurface utility locations and clearance by local utility providers, the boring locations were manually cleared using hand tools to five feet below ground surface. Photographs of soil boring locations and utility survey markings are provided in Appendix C.

2.2 SURFACE SOIL SAMPLING

Surface soil samples were collected at three locations as shown in Figure 2. Soil at location SS-01 was collected below a loose piece of concrete near the apron of the driveway to the back door of the cleaners. Soil at locations SS-02 and SS-03 was collected from grassy areas adjacent to the sidewalk. Surface soil samples were from soil below roots of grass or concrete to depths of six inches. In addition, one sub-slab sample was collected from beneath the Bestway Cleaners structure during the installation of the boring inside the building. Surface soil samples and the sub-slab soil sample were sent to Test America Laboratory (TestAmerica) and analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260.

2.3 STORM SEWER SEDIMENT SAMPLING

One sediment sample was collected from a brick storm sewer manhole located at the southeast side of Yale Place southwest of the Bestway Cleaners building (see Figure 2). The depth to the bottom of the manhole where sediment was collected was approximately 10 feet. Storm Sewer pipes that appeared to be constructed of clay tile were observed intersecting the manhole sump. No flow was observed in the manhole so the direction of flow could not be determined, but is assumed to be toward the storm sewer outfall at Cazenovia Creek near the southwest end of Yale Place. A stainless steel scoop was attached to

a pole, which was then lowered into the manhole to collect accumulated sediment from the bottom. The sediment sample was then transferred to clean sample jars and was transported TestAmerica's Buffalo, NY laboratory for analysis of VOCs using EPA Method 8260.

Cazenovia Creek is concrete lined in the vicinity of the Site. No sediment was observed in the creek in the vicinity of the outfall. A creek sediment sample was not collected.

2.4 SOIL BORING INSTALLATION

Eight soil borings were completed for subsequent conversion to groundwater monitoring wells at six new locations west of the Site (MW-111, MW-112, MW-113, MW-114, MW-115, and MW-118). In addition, a soil boring was completed for subsequent conversion to a groundwater monitoring well at MW-9R. MW-9R is near the location of the former temporary well MW-9 which was installed and abandoned during the 2009 Site Characterization activities. Inside the footprint of the Bestway Cleaners building, a single boring was advanced and subsequently converted into a temporary piezometer (see Figure 2).

The boring inside the building was advanced using portable direct-push sampling equipment. A hand auger was used to clear the boring location to a depth of five feet below the floor. During hand clearing, samples were visually examined and physical characteristics noted. Headspace readings, using a calibrated PID, were taken from each soil sample retrieved. The sample with the highest headspace reading in the zero to five foot interval was collected for laboratory analysis. The sample collected equates to the sub-slab sample in the approved scope of work.

In the boring inside the building, soil samples below five feet depth were collected using a direct-push macro-core sampler. Retrieved samples were visually examined for physical characteristics and described using the USCS. The samples were screened with a photoionization detector (PID) and any olfactory characteristics noted. Headspace readings were recorded from each macro-core soil sample retrieved. If only a portion of the recovered sample was impacted based on the field screening, the headspace readings were collected from that specific portion of the recovered sample.

One soil sample from above five feet and one sample from below five feet that exhibited the highest headspace reading was sent to the laboratory for analysis. Each of the selected soil samples was analyzed at TestAmerica's Buffalo, NY laboratory for VOCs using EPA Method 8260. For Quality Assurance / Quality Control (QA/QC) purposes, one field duplicate soil sample will be collected and analyzed.

The borings outside of the building were advanced using 4.25-inch inside diameter (ID) hollow stem augers. Split-spoon samples were collected continuously at each of the soil boring locations and the Standard Penetration Test was performed. All retrieved soil samples were visually examined, and physical characteristics were described using the USCS. Headspace readings were taken from each soil sample using a PID. One soil sample from each boring at the vertical interval exhibiting the highest PID reading or from the vertical interval in the vicinity of the water table was selected and analyzed at TestAmerica's Buffalo, NY laboratory for VOCs using EPA Method 8260. For QA/QC purposes, one field duplicate sample, one equipment blank, one trip blank, and one matrix spike/matrix spike duplicate (MS/MSD) sample set were collected and analyzed. Boring logs for each RI soil boring are provided in Appendix A. A summary of the soil samples collected and chemical analyses performed is presented in Table 1.

2.5 MONITORING WELL INSTALLING AND DEVELOPMENT

The target completion depth of each monitoring well was identified based on visual observations of subsurface soil and the depth to the water table encountered in each soil boring. A two-inch ID schedule-40, polyvinyl chloride (PVC) well screen with a 0.010-inch slot size was installed with a solid PVC riser extending to the ground surface. The annulus around the outside of the well screen was backfilled with a sand filter pack to two feet above the top of the screen, followed by a bentonite seal above the filter pack. The seal in each new well was allowed to hydrate prior to placing grout above the seal. Each well was completed with a flush mount protective cover. Monitoring well construction diagrams are provided in Appendix A.

No sooner than 24 hours after installation, the monitoring wells were developed by pumping until the water in each new monitoring well was reasonably free of sediment (50 nephelometric turbidity units (NTUs) or less, where possible) or until the following field parameter stabilization criteria were achieved: pH (+/- 0.1), temperature (+/- 1 degree C) and conductivity (+/- 3%) of water in the well had stabilized to within the ranges defined. Wells were developed using a foot valve attached to polyethylene tubing. Water purged from the new monitoring wells during development was placed in 55-gallon New York State Department of Transportation (NYSDOT)-approved drums and properly disposed, as described in Section 2.10. Well development records are included in Appendix A.

The temporary piezometer in the Bestway Cleaners building was purged of groundwater and allowed to recover to its static water level. During purging field parameters were recorded.

2.6 GROUNDWATER SAMPLING

The first round of RI groundwater sampling was conducted at the Site between November 5 and November 18, 2013. Ten preexisting wells (GW-1, GW-2, GW-3, GW-4, GW-5, GW-7, GW-8, GW-9, MW-8, MW-10), one replacement well (MW-9R), and six new wells installed as part of the RI (MW-111 through MW-115 and MW-118) were sampled.

Prior to collecting groundwater samples, the depth to groundwater was measured in each sampled monitoring well to the nearest 0.01 foot using an electronic oil/water interface probe.

Groundwater in each monitoring well was purged prior to sampling using a peristaltic pump and dedicated high density polyethylene (HDPE) sample tubing. Water quality parameters were monitored at five-minute intervals until conditions were determined to be stabilized or until the well was purged dry. The stabilization criteria used are as follows: temperature (+/-) 1 degree Celsius, specific conductance (+/-) 3%, pH (+/-) 0.1 pH units, dissolved oxygen (+/-) 10%, and turbidity (+/-) 10%. If the well was purged dry due to slow recharge, then the well was allowed to recover to at least 80 percent of the static water column height. Water quality parameter measurements and field observations during sampling are recorded on groundwater sampling forms provided in Appendix B. Groundwater samples were collected directly from dedicated sample tubing into laboratory-supplied sample bottles. The samples were submitted to TestAmerica's Buffalo, NY lab for analysis of TCL VOCs using EPA Method 8260. A summary of the groundwater samples collected and analyses performed is presented in Table 1.

After returning to static water level, a groundwater sample was collected from the piezometer. The piezometer was purged prior to sampling using a peristaltic pump and dedicated high density polyethylene (HDPE) sample tubing and a low flow method.

A second round of groundwater sampling was conducted at the Site between June 20 and June 22, 2016. During the second round of groundwater sampling fifteen wells (GW-1, GW-3, GW-4, GW-5, GW-7, GW-8, GW-9, MW-8, MW-9R, MW-111, MW-112, MW-113, MW-114, MW-115, and MW-118) were sampled, using the same procedures outlined above. Wells GW-2 and MW-10 were not sampled during this sampling event due to well damage. The samples were submitted to TestAmerica's Buffalo, NY lab for analysis of VOCs using EPA Method 8260. A summary of the groundwater samples collected and analyses performed is presented in Table 1.

2.7 SOIL VAPOR INTRUSION INVESTIGATION

To evaluate potential soil vapor intrusion (SVI), indoor air and sub-slab vapor samples were collected from four residential locations in the neighborhood near Bestway Cleaners as well as from the Bestway Cleaners structure during the RI. Three residential sample locations were along Yale Place and one was on Geary Street, as shown in Figure 2. Soil vapor samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion (NYSDOH, 2006). Two sub-slab vapor samples with concurrent co-located indoor air samples were collected from the Bestway Cleaners, and one sub-slab sample, with concurrent co-located indoor air samples were collected from each of the four neighborhood residences. In addition, three outdoor ambient air samples were collected concurrent with the indoor air and sub-slab vapor samples.

Temporary sub-slab vapor sampling points were installed by drilling a small hole through the concrete floor. Plastic tubing was inserted through the drilled hole and a piece of Permagum was used to seal around the tubing. A tracer gas (helium) was utilized at each sub-slab vapor sample location to verify the integrity of the seal prior to sample collection. An enclosure (i.e., a plastic pail) was placed over the sub-slab vapor point and the atmosphere within the enclosure was enriched with helium gas. After the atmosphere within the enclosure had been enriched, a helium detector was attached to the sample tubing to verify the concentration of the tracer gas beneath the slab was less than 10 percent indicating an adequate seal.

Six-liter Summa canisters with flow regulators were used to collect soil vapor samples over a 24 hour period at each sampled residential properties and over an eight-hour period at the Bestway Cleaners site. A vacuum gauge was used to check both the initial and final vacuum in the canisters. Vapor samples were submitted to TestAmerica's Knoxville, TN laboratory for analysis of VOCs using modified EPA Method TO-15. A summary of the soil vapor samples collected and analyses performed is presented in Table 1. Data collected from the buildings during air sampling is included in Appendix E.

2.8 SURVEYING

Following the remedial investigation field activities, a licensed New York State land surveyor located each soil boring and monitoring well. The survey was conducted on December 9, 2013. Survey elevations were measured to an accuracy of 0.01 feet above the North American Vertical Datum of 1988 (NAVD 88) and 0.1 feet using the horizontal Datum of 1983 (NAD 83).

2.9 GROUNDWATER ELEVATION SURVEY

Groundwater level measurements were collected on November 11, 2013 as part of the initial RI field activities (Table 2). Groundwater level measurements were also measured between November 5 and November 18, 2013 as part of well development and groundwater sampling efforts (Appendix B). Groundwater level measurements were also collected in June 2016 as part of the second round of groundwater sampling (Table 2).

2.10 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) from the 2013 RI work which included decontamination wash and rinse water, soil cuttings, purge water, and disposable personal protective equipment was containerized in clean NYSDOT-approved 55-gallon drums stored on the site. The drums were sealed at the end of each work day and labeled with the date, the well or boring number(s), and the type of waste (e.g., drill cuttings, purge water, etc.). The soil and groundwater samples representing the IDW were analyzed by TestAmerica. The results (provided in Appendix F) were compared against regulatory guidelines and the IDW was determined to be non-hazardous. The drums related to the 2013 work were removed from the site on March 4, 2014 by Veolia ES Technology Solutions L.L.C. for offsite disposal in accordance with applicable local, state, and federal regulations.

Wastes generated during the installation of the boring and piezometer inside the Bestway building were disposed of after review of sample results from the recent sampling and comparison to regulatory guidelines. The IDW for the interior boring was determined to be non-hazardous. The drums were removed from the site on December 7, 2015 by Veolia ES Technology Solutions L.L.C. for offsite disposal in accordance with applicable local, state, and federal regulations.

Wastes generated during the 2016 groundwater sampling event were disposed of after review of sample results and comparison to regulatory guidelines. The waste was determined to be non-hazardous. The drums were removed from the site on July 12, 2016 by Veolia ES Technology Solutions L.L.C. for offsite disposal in accordance with applicable local, state, and federal regulations.

2.11 DATA VALIDATION AND REPORTING

The RI samples were analyzed by TestAmerica for VOCs using the USEPA SW-846 8260C analytical method. TestAmerica is certified to perform project analyses through the NYSDOH Environmental Laboratory Approval Program (ELAP). Soil and groundwater sample data collected during the 2013 and 2016 RI work was reviewed and validated for usability by Parsons according to the following:

- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The validator found the analytical data to be usable with some additional J-qualification, indicating the result as being estimated, based on MS/MSD recoveries, instrument calibrations, and percent solids content. The RI validated data (including additional qualification) is presented in Table 3 through Table 5. Validated groundwater sample results are provided on Table 7. The Data Usability Summary Reports (DUSR) are provided in Appendix D.

SECTION 3

REMEDIAL INVESTIGATION RESULTS

3.1 SITE GEOLOGY

Based on this RI and previous investigations at and in the vicinity of the Site, the subsurface consists of several units. The subsurface at the Site can be characterized from top to bottom as follows:

- Fill Material - Fill material consisting primarily of reworked silt and clay with some varying amounts of sand and gravel. Brick, coal, wood, concrete and other debris are also encountered. Fill materials range in thickness from approximately 1.5 to 18 feet.
- Sand Unit - A sand unit consisting of fine to medium-grained sand with varying amounts of gravel. Where encountered, sand thickness ranges from approximately 3 to 14 feet.
- Silt and Clay unit – This underlies the sand unit. Where fully penetrated, the silt and clay ranges in thickness from 6 to 14 feet.
- Till unit – The glacial till, which typically overlies the bedrock, consists of a heterogeneous mixture of silt, sand, and gravel, ranging in thickness between 1 and 7 feet underlies the silt and clay unit.
- Bedrock unit – The top of bedrock surface is estimated to be approximately 25 to 30 feet below ground surface (Conestoga-Rovers & Associates, 2003). Based on state geologic mapping, the bedrock underlying the site is likely part of the Oatka Creek Shale Member of the Middle Devonian Marcellus Formation (Rickard and Fisher, 1970).

None of the RI borings were drilled deep enough to encounter the till or bedrock beneath the gray clay. The soil boring logs (Appendix A) were used to construct geologic cross sections A-A' and B-B' depicting the geologic units at the Site (Figure 3 and Figure 4).

3.2 SITE HYDROGEOLOGY

Groundwater levels were measured on November 11, 2013. Depth to groundwater ranged from 6.76 feet below ground surface at GW-5 to 11.61 feet below ground surface in MW-113 (see Table 2). Groundwater elevations ranged from 581.73 feet above sea level in GW-9, located west of the Site, to 574.70 feet in GW-113, located southwest of the Site near Cazenovia Creek, as shown on the groundwater contour map (Figure 5). Based on the November 11, 2013, groundwater flow was generally to the west and southwest toward Cazenovia Creek with a hydraulic gradient of approximately 0.0075 feet/foot. Groundwater collected during the 2016 sampling event showed a similar trend (see Table 2 and Figure 6).

Hydraulic conductivity tests were not conducted as part of the Off-Site Characterization; however, they were completed by CRA in 2003 as part of the investigation of the Pizza Hut property. The hydraulic conductivity within the shallow overburden monitoring zone was reported to range from approximately 3.28×10^{-4} cm/sec (0.9 ft/day) to 9.95×10^{-3} cm/sec (28.2 ft/day) with a geometric mean of 2.74×10^{-3} cm/sec (7.8 ft/day) (CRA, 2003). The shallow overburden monitoring wells mainly screen the fill unit and the sand unit.

Cazenovia Creek is concrete lined in the vicinity of the site. Cazenovia Creek flows northwest toward the Buffalo River and discharges to Lake Erie approximately three miles west of the site. Precipitation at the Site that does not infiltrate the soils is directed to a storm sewers along Yale Place which discharges to Cazenovia Creek through an outfall (Figure 2).

3.3 SOIL INVESTIGATION RESULTS

Soil samples collected in the 2009 Site Characterization sampling and the RI sampling are discussed below.

During the SC eight soil samples analyzed for TCL VOCs, and the analytical results are summarized in the SC report and briefly discussed below. Results have been compared to unrestricted use in Part 375 from Title 6 of the New York Code of Rules and Regulations (known as 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives or SCOs).

As described in Section 2, surface soil and subsurface soil samples were collected during the RI. Surface soils were collected at three locations (SS-01, SS-02 and SS-03) from the open areas west and southwest of the Bestway Cleaners building. Subsurface soils were collected from the seven soil borings installed adjacent to and hydraulically down-gradient from the building (Figure 2). A sub-slab and deeper subsurface soil sample were collected from the boring within the footprint of the Bestway Cleaners building. Soil samples were analyzed for TCL VOCs as described in Section 2.2, and the analytical results are summarized below by comparing results to soil cleanup objectives (SCOs) for unrestricted use in Part 375 from Title 6 of the New York Code of Rules and Regulations (known as 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives or SCOs). RI soil analytical results are also summarized in Tables 3 and 4, and the laboratory reports are provided in Appendix D.

Surface Soil Analytical Results

During the RI PCE was detected in the SS-01 sample (collected adjacent to the Bestway Cleaners) at a concentration of 11 ug/kg which is below the unrestricted use SCO of 1,300 ug/kg. No VOCs were detected in either of the other two surface soil samples.

In the sub-slab RI soil sample (B-1_2015-10-19 (3.0-3.5)), methylene chloride (18 ug/kg), PCE (220 ug/kg) and total xylene (6.4J ug/kg) were detected but did not exceed their respective unrestricted use SCOs.

RI Sample locations are shown in Figure 2 and analytical results are presented on Table 3.

There were no surface soil samples analyzed as part of the 2009 site characterization.

Storm Sewer Sediment Analytical Results

One sediment RI sample (SED-01) was collected from a sewer located near the Bestway Cleaners along Yale Place (Figure 2). No VOCs were detected. The results are presented in Table 5. There were no sewer sediment samples collected as part of the 2009 site characterization.

Subsurface Soil Field Screening

As described in Section 2.4, each RI subsurface soil sample was screened in the field with a PID. The PID results are indicated on the boring logs included in Appendix A. In summary, the PID readings during the soil boring/monitoring well installation program ranged from 0.0 ppm to 0.8 ppm. The highest PID reading was detected in soil boring MW-118 at a depth of 11 to 13 feet below ground surface. This sample was submitted for chemical analysis as were the samples with the highest PID reading in the other RI borings. Staining was not observed in soil samples drilled during this RI.

In general, samples with the highest PID readings were from the bottom of the fill material or from the clayey silt near the top of the sand and gravel unit. PID readings in borings completed in the vicinity of the Site during the 2009 site characterization were 55 ppm in GW-1 (referred to as MWDEC14 in the Pizza Hut Off-Site Characterization Report) and 50 ppm in GW-4 (also referred to as MWDEC15). It is also noted that VOCs were also detected in GW-9 (also referred to as MWDEC1) located at an upgradient location at 1,080 ppm (O'Brien & Gere, 2006). Other borings drilled during the 2006 investigation had lower concentrations of VOCs, or VOCs were not detected. Staining was not observed in soil samples collected during this RI.

Subsurface Soil Analytical Results

A total of ten subsurface soil samples (including two duplicate samples) were collected from the RI soil borings. The RI analytical results of the subsurface soil samples are summarized in Table 4. None of the detected VOCs exceeded any of the unrestricted use SCOs. The compound most frequently detected in subsurface soils, methylene chloride (MeCl), was detected in five samples, at concentrations ranging from 9.9 to 26 ug/kg (below the SCO of 50 ug/kg). PCE was detected in two subsurface soil samples with the highest detection found in B-1 at concentrations of 220 ug/kg. TCE was detected at one location (MW118SB) at a concentration of 1.9J ug/kg. The unrestricted use SCO for PCE is 1,300 ug/kg, and the unrestricted use SCO for TCE is 470 ug/kg.

In the RI soil sample from depth at boring location within the footprint of the building (B-1 B-1_2015-10-19 (15.5-16.0)), cyclohexane (2,000 ug/kg), isopropylbenzene (290J ug/kg), and methylcyclohexane (9,500 ug/kg) were detected with a dilution factor of 10. There are no standards defined for the three parameters detected in the deeper soil sample collected from boring B-1. The raw data for this soil sample was reviewed and found that the PCE and TCE are not observable on the chromatogram because of the dilution. Both PCE and TCE were reported as less than 1400 ug/kg due to the dilution.

A total of eight subsurface soil samples were collected from the SC soil sampling. The SC analytical results are presented in the SC report and briefly summarized hereafter. None of the detected VOCs exceeded any of the unrestricted use SCOs. The compound most frequently detected in subsurface soils, toluene, was detected in five samples, at concentrations ranging from 7.0 to 4.4 ug/kg (below the SCO of 700 ug/kg). PCE was detected in four subsurface soil samples with the highest detection found in GP-2 at concentrations of 140 ug/kg (below the SCO of 1,300 ug/kg). Acetone was detected in two subsurface soil samples with the highest detection found in GP-2 at concentrations of 3.9 ug/kg (below the SCO of 50 ug/kg). 2-Butanone was detected in one subsurface soil samples with the highest detection found in GP-2 at concentrations of 2.0 ug/kg (below the SCO of 120 ug/kg). 4-methyl-2-pentanone was detected in one subsurface soil samples, GP-3 at concentrations of 5.2 ug/kg

3.4 GROUNDWATER INVESTIGATION RESULTS

As described in Section 2.6, the first RI round of groundwater samples were collected between November 5 and November 18, 2013 and the second RI round of groundwater samples were collected between June 20 and June 22, 2016. A round of groundwater was collected during the 2008 SC investigation. These three rounds of groundwater samples were analyzed for VOCs and summarized below. The well purging measurements for the wells sampled are found in Appendix B. Table 6 contains a summary of the RI monitoring well groundwater purging field parameter results. Table 7 provides the analytical results for the RI groundwater samples collected from new and existing wells and the temporary well within the footprint of the Bestway building.

During the November 2013 and June 2016 groundwater purging and sampling activities at each location, the following field parameters were measured and recorded on the groundwater sampling records (included in Appendix B): pH, specific conductivity, temperature, dissolved oxygen, oxygen reduction potential, and turbidity. Measured field parameters are summarized in Table 6. Purge measurements are included in groundwater sampling records (Appendix B). From the samples collected in November 2013, the pH measurements were below the Part 703.3 surface and groundwater quality range standard of 6.5 to 8.5 pH units in GW-1 (6.12), GW-3 (6.11), MW-111 (6.08), and MW-118 (6.03). Turbidity measurements above the quality standard of 5 NTUs in GW-1 (7.3 NTUs), GW-5 (166 NTUs), GW-8 (6.4 NTUs), MW-9R (7 NTUs), and MW-115 (8.8 NTUs) in November 2013. From the samples collected in June 2016, the pH measurements were below the Part 703.3 surface and groundwater quality range standard in GW-1 (5.59), GW-3 (6.12), GW-4 (6.40), GW-7 (6.09), GW-8 (5.94), MW-8 (6.48), MW-113 (6.32), and MW-118 (6.18). Turbidity measurements above the quality standard of 5 NTUs were measured in GW-1 (10.89 NTUs), GW-4 (64.80 NTUs), GW-5 (7.49 NTUs), GW-8 (53.10 NTUs), MW-8 (25.30 NTUs), MW-9R (9.68 NTUs), and MW-114 (6.71 NTUs) in June 2016. Visual observations made during the groundwater sampling activities are also noted on the groundwater sampling records. No sheen or light or dense non-aqueous phase liquid (LNAPL or DNAPL) was observed at any of the sampled monitoring wells during November 2013 or June 2016 samples events.

PCE and/or TCE was detected above the Class GA Standard of 5.0 ug/L in six down-gradient monitoring wells (GW-1, GW-2, GW-3, MW-1, MW-7, and MW-9) in June 2008. Detected PCE concentrations ranged from 29 ug/L in MW-7 to 110 ug/L in GW-2 in June 2008. PCE was not detected in seven of the 13 samples collected. Detected TCE concentrations ranged from 7 ug/L in GW-1 to 53 ug/L in GW-2 in June 2008. TCE was also not detected in eight of the 13 samples. In addition, cis-1,2-dichloroethylene exceeded the Class GA standard of 5.0 ug/L at the 6 downgradient locations closest to the Site in Round 2 (GW-1, GW-2, GW-3, MW-1 MW-9, and MW-10) at concentrations ranging from 5.8 ug/L to 400 ug/L. Vinyl chloride exceeded the Class GA standard of 2 ug/L at two locations (GW-2 and MW-1) in the vicinity of the site ranging from 6.9 and 35 ug/L. Vinyl Chloride was not detected in the other 11 locations. Results are spatial presented on figure 9.

Other VOCs (ethybenzene, isopropylbenzene, n-propylbenzene and xylene) were detected during the 2008 SC investigation above Class GA standards at GW-9, these compounds were not detected at other locations.

PCE and/or TCE was detected above the Class GA Standard of 5.0 ug/L in eight down-gradient monitoring wells (GW-1, GW-2, GW-3, MW-8, MW-9R, MW-111, MW-112, and MW-118) in

PARSONS

November 2013, and in the temporarily installed well (B-1) within the footprint of the building. Detected PCE concentrations ranged from 6.7 ug/L in MW-112 to 120 ug/L in MW-118 in Round 1. PCE was not detected in ten of the 18 samples collected. Detected TCE concentrations ranged from 0.6J ug/L in MW-112 to 44 ug/L in GW-2. TCE was not detected in nine of the 18 samples collected. In addition, cis-1,2-dichloroethylene exceeded the Class GA standard of 5.0 ug/L at the five downgradient locations closest to the Site in Round 1 (GW-1, GW-2, GW-3, MW-118, and MW-9R) at concentrations ranging from 17 ug/L to 280 ug/L at these 5 locations. Cis-1,2-dichloroethylene was also detected above the Class GA standard of 5.0 ug/L at side-gradient location GW-8 (9.9 ug/L). Vinyl chloride exceeded the Class GA standard of 2 ug/L at one location (GW-2) in the vicinity of the site at 4.2 ug/L. Vinyl Chloride was not detected in the other 17 locations. Acetone (110 ug/L) and isopropylbenzene (25 ug/L), which were not detected down-gradient of the site, exceeded their respective Class GA guidance value of 50 ug/L for acetone and Class GA standard of 5.0 ug/L for isopropylbenzene at upgradient location GW-9 in November 2013. Total TCL VOCs in groundwater and GW-9 were 329.4 ug/L, the second highest total TCL VOCs concentration in the groundwater samples collected during the RI, behind the sample from downgradient GW-2 (431.1 ug/L). It is important to note that the elevated compounds in groundwater from GW-9 as well as B-1 are different than those in groundwater sampled collected closer and downgradient to the Site, suggestive of a separate source. Figure 7 spatially depicts the exceedances of applicable Class GA water quality standards and guidance values.

Total VOCs in November 2013 at GW-9 were 329.4 ug/L, the second highest total VOC concentration detected behind GW-2 (431.1 ug/L). The compounds detected were different in GW-9 than in groundwater from monitoring wells closer to the Site in Round 1. Figure 7 spatially depicts the exceedances of applicable Class GA standards and guidance values.

PCE and/or TCE was detected above the Class GA Standard of 5.0 ug/L in five down-gradient monitoring wells (GW-1, GW-3, MW-111, MW-118, and MW-9R) in June 2016. Detected PCE concentrations ranged from 3.3 ug/L in MW-112 to 86 ug/L in MW-118 in June 2016. PCE was not detected in ten of the 16 samples collected. Detected TCE concentrations ranged from 3.5 ug/L in MW-9R to 19 ug/L in MW-118 in June 2016. TCE was also not detected in twelve of the 16 samples collected in Round 2. In addition, cis-1,2-dichloroethylene exceeded the Class GA standard of 5.0 ug/L at the five downgradient locations closest to the Site in Round 2 (GW-1, GW-3, MW-118, and MW-9R) at concentrations ranging from 7.3 ug/L to 91 ug/L. Cis-1,2-dichloroethylene was also detected above the Class GA standard of 5.0 ug/L at side-gradient location GW-8 (14 ug/L) in Round 2. Vinyl chloride exceeded the Class GA standard of 2 ug/L at one location (GW-1) in the vicinity of the site at 2.6 ug/L. Vinyl Chloride was not detected in the other 15 locations. Figure 8 spatially depicts the exceedances of applicable Class GA standards and guidance values during the June 2016- Round 2 sampling event.

3.5 SOIL VAPOR INTRUSION RESULTS

As described in Section 2.7, TO-15 samples of sub-slab vapor, indoor air, and ambient air were collected from four residences in the vicinity of the Bestway Cleaners site and two samples from the site building between March 18 and 20, 2014. Table 8 summarizes the detected VOCs and the complete analytical results are presented in Appendix D. PCE soil vapor results are plotted in Figure 7.

2075 Seneca Street (Bestway Cleaners Site)

Two sample sets were collected from the Bestway Cleaners building. Each set consisted of one sub-slab vapor sample and one ambient air sample. One sample set (2408-IA1 and 2408-SS1) was collected from a clothing storage area in the center of the building. The other sample set (2408A-IA2 and 2408A-SS2) was collected from an office area near the store front. PCE was the only compound detected in the indoor air and sub-slab sample collected from the clothing area. The sub-slab concentration (20,000 ug/m³ in 2408A-SS1) was more than twice the indoor air concentration 8,300 ug/m³ in 2408A-IA1). The other sample set, collected from near the storefront, had only PCE detected in the inside air sample (3,600 ug/m³ in 2408A-IA2), but the corresponding sub-slab sample (980 ug/m in 2408A-SS2) contained four other VOCs in addition to PCE: 1,2,4-trimethylbenzene, cyclohexane, m,p-xylenes, and n-hexane (Table 8). Collectively, the SVI sampling at the Bestway Cleaners site indicate PCE contamination exists beneath the slab in the center of the building.

Structure No. 1

One indoor air sample and one sub-slab vapor sample were collected at Structure No. 1 located across the street from the Bestway Site. Thirteen compounds were detected in the indoor air sample, and ten compounds were detected in the sub-slab sample. Total VOCs in the indoor air sample were 140.08 ug/m³ and 26.76 ug/m³ in the sub-slab sample. PCE and 1,1,1-TCA were detected in the sub-slab sample at higher concentrations than in the indoor air sample. Chlorinated VOCs are attributed to the Bestway Cleaners across the street. Most of the other compounds were detected at comparable or higher concentrations in the indoor air sample, indicating most of the VOCs could be attributed to chemical storage and/or use as household products by residents.

Structure No. 2

One indoor air sample, one subslab vapor sample, and one ambient air sample were collected at Structure No. 2 located across the street from the Bestway Site. Fourteen compounds were detected in the indoor air sample and eight compounds were detected in the subslab sample. PCE was detected in both the indoor air sample (1.3 ug/m³ in 383E-IA) and in the subslab sample (33 ug/m³). 1,1,1-TCE was detected in the sub-slab sample at 2.1 ug/m³ but not in the indoor air or ambient air samples. Total VOCs were 62.75 ug/m³ in the indoor sample and 41.94 ug/m³ in the subslab sample. With the exception of PCE and 1,1,1-TCE, the concentrations of VOCs inside the building were higher than below the slab. PCE and 1,1,1-TCE are attributed to the Bestway Site. The VOCs detected in the ambient air sample were similar to those detected in the indoor air sample. Concentrations detected in the indoor air sample were higher or equivalent to those detected in the ambient air sample. Total VOCs in the indoor air sample (62.75 ug/m³) were higher than in the ambient air sample (28.82 ug/m³). The other VOC compounds could be related to chemicals stored and used as household products by the residents or the VOCs could be related to ambient compounds in the environment.

Structure No. 3

One indoor air sample and one sub-slab sample were collected from Structure No. 3. This structure is located between the Bestway Site and Cazenovia Creek at a hydraulically downgradient location. Thirteen VOC compounds were detected in the indoor air sample. Only PCE was detected in the sub-slab vapor sample (1,500 ug/m³ in 360E-SS). The PCE concentration in the indoor air sample was 3.2 ug/m³ in

360E-IA whereas the total VOCs in the indoor air sample was 53.07 ug/m³. The VOCs detected in the subslab sample were just PCE (1,500 ug/m³). PCE in the sub-slab sample is attributed to the Bestway Site. The other VOCs could be related to chemicals stored and used as household products by the residents or the VOCs could be related to ambient compounds in the environment.

Structure No. 4

One indoor air sample, one primary and one duplicate sub-slab sample, and one ambient air sample were collected from Structure No. 4. Fifteen VOC compounds were detected in the indoor air sample (354Y-IA). PCE was the only compound detected in the subslab sample (354Y-SS) at a concentration of 710 ug/m³. PCE was detected in the indoor air sample at a concentration of 2.5 ug/m³. Total VOCs were 169.88 ug/m³ in the indoor air sample, 758 ug/m³ in the sub-slab sample, and 19.33 ug/m³ in the ambient air sample. Ambient air sample AA-031714 contained ten detected VOCs, and concentrations in the indoor air sample were all higher than in the ambient air sample. The VOCs detected in the structure could be related to chemicals stored and used as household products by residents, or the VOCs could be related to ambient compounds in the environment.

SECTION 4

NATURE AND EXTENT OF CONTAMINATION

The nature and extent of contamination associated with the Bestway Site is based on results from this RI and review of results from the 2009 site characterization effort. Groundwater results summarized in this section for the current RI and 2009 site characterization only. Surface soils and indoor soil vapor were not monitored as part of the 2009 site characterization effort.

4.1 SOIL

Subsurface soil samples collected as part of the 2009 site characterization effort were below unrestricted use SCOs. VOCs detected in the RI surface and subsurface soil samples were below the unrestricted use SCOs where the SCO exists for the particular compound. However, subsurface soil samples from the boring within the building showed the presence of cyclohexane, isopropylbenzene, and methylcyclohexane. These compounds do not have a defined SCO and are not attributed to operations of the dry cleaning facility.

Based on the RI sampling, the other soils sampled in the vicinity of the site are not significantly impacted with PCE or other VOCs. Surface soil samples were not collected as part of the 2009 site characterization effort.

4.2 STORM SEWER SEDIMENT

VOCs were not detected in the storm sewer sediment sample that was able to be collected as part of the RI efforts. Storm sewer sediment was not sampled as part of the 2009 site characterization work.

4.3 GROUNDWATER

VOCs were detected in groundwater at concentrations exceeding Class GA standards for four chlorinated VOCs (PCE, TCE, cis-1,2-dichloroethylene, vinyl chloride) and five non-chlorinated VOCs (isopropylbenzene, toluene, ethylbenzene, n-Propylbenzene, total xylene). In addition, the Class GA guidance value for acetone was exceeded in groundwater from one of the monitoring wells. From the boring beneath the Bestway building, groundwater concentrations showed exceedances of the Class GA guidance value for isopropylbenzene, PCE, and toluene. Chlorinated VOCs groundwater concentrations exceeding the Class GA standards and exceeding the Class GA guidance value are shown in Figure 9. Figure 7 also shows plume extents of chlorinated VOCs for the November 2013 sampling and Figure 8 shows plume extents of the chlorinated VOCs for the June 2016 sampling.

The highest PCE concentrations were found in MW-118 (120 ug/L), GW-2 (110 ug/L) and GW-3 (79 ug/L). The extent of PCE in groundwater has been defined to the north near Seneca Street by samples from GW-4 and GW-5, to the west by samples from MW-10, MW-115 and MW-8, and to the east in GW-7, GW-8 and GW-9. PCE was detected in MW-111 and MW-112 located southwest of the Bestway Cleaners near Cazenovia Creek. The PCE concentration in groundwater generally trends downward to the southwest. PCE is present in groundwater above the Class GA standard between the Bestway Cleaners

Site and Cazenovia Creek along Yale Place and to the west between Bestway Cleaners and MW-9R on Geary Street. The extent of PCE impacts are not fully defined to the southwest.

The extent of TCE and vinyl chloride in groundwater has been defined. Detected TCE extends from the vicinity of the Bestway Cleaners Site westward to Geary Street at MW-8 and MW-9R. Vinyl chloride in groundwater exceeding criteria is limited to the vicinity of the Bestway Cleaners at GW-1 and GW-2 and MW-1.

Cis-1,2-dichloroethylene was detected above Class GA standards in GW-1, GW-2, GW-3, MW-1, MW-7, MW-118, MW-9, MW-9R, and GW-8. The cis-1,2-dichloroethylene plume had the widest lateral extent extending from MW-8 to the east to MW-9 and 9R to the west. The extent of cis-1,2-dichloroethylene exceedances of the Class GA standard in groundwater has been reasonably defined.

Acetone, ethylbenzene, n-propylbenzene, total xylene and isopropylbenzene concentrations were detected above their respective Class GA guidance value and standard respectively in groundwater at GW-9 located upgradient of the Site on Princeton Place. Acetone was also detected at low concentration below Class GA guidance values in MW-10 and MW-115. Isopropyl benzene was also detected at a low concentration below Class GA guidance values in MW-118. Toluene was detected in the above Class GA standards in the temporary well installed within the footprint of the building. Acetone, toluene, and isopropylbenzene are not attributable to the Bestway Cleaners Site given that these compounds are not commonly used at dry cleaners.

4.4 SOIL VAPOR

PCE was detected in each of the RI indoor air and sub-slab vapor samples. The PCE in the groundwater is the likely the source for PCE in sub-slab vapors and indoor air. The apparent PCE distribution is generally from the Bestway site to the southwest of the Site.

There is a correlation between concentrations of PCE in sub-slab samples and in groundwater samples. The highest sub-slab concentrations were in samples collected at the Bestway site, 2075 Seneca Street (20,000 ug/m³ and 980 ug/m³) and at (1,500 ug/m³). Concentrations of PCE in groundwater in this area were also highest (MW-118 120 ug/L, GW-2 100 ug/L, GW-1 32 ug/L 32 ug/L). The presence of PCE in groundwater above the Class GA standard extends to Yale Place based on groundwater sample results from MW-111 (12 ug/L). The apparent PCE distribution is generally from the Bestway site to the southwest of the Site (see Figures 6 and 7). The extent of PCE in indoor air and sub-slab samples has not been fully defined by air sampling work that was able to be conducted as part of the RI. Sampling was limited to four residences and the site building due to a low number of responses from local residents to requests for access to their properties to conduct sampling during the RI.

SECTION 5

EXPOSURE ASSESSMENT

The information collected during this RI and the 2009 SC has been used to qualitatively assess potential exposure pathways for the various detected compounds associated with the Bestway Cleaners site. The site is located in a mixed residential and commercial area. There are businesses located along Seneca Street and residences along Yale Place, Geary Street, and Ryan Street. The ground surface at the site is currently mostly covered by asphalt pavement and buildings.

Of the three surface soil samples collected during the RI, PCE was detected at one location but below the SCO for unrestricted use. Other VOCs were not detected. Based on these results, surface soils are not an exposure pathway.

Results from subsurface soil samples collected during the drilling of monitoring wells showed none of the VOCs detected in collected samples exceeded the soil cleanup objectives for unrestricted use or guidance values. Therefore, subsurface soils away from the Bestway Cleaners building do not appear to be an exposure pathway of potential concern.

Groundwater sampled during the RI and SC showed VOCs exceeding the Class GA groundwater standards at monitoring wells downgradient of the Bestway Cleaners Site along Yale Place (GW-1, GW-2, MW-1, MW-7 MW-118, GW-3, MW-111, and MW-112) and at downgradient locations along Geary Street (MW-8, MW-9, and MW-9R). The class GA groundwater standards were also exceeded in the groundwater sample from the boring within the footprint of the building isopropylbenzene, toluene, and PCE exceeded the standards or guidance value. This area is served by public water, and the groundwater is not used as a potable water source. Given that the depth to groundwater at and near the site was 6.76 feet or greater below ground surface, the potential exists for exposure to groundwater exists for future excavation activities, maintenance of deep underground utilities such as sewers, or by seepage into basements. Thus, groundwater is a potential exposure pathway for residents and workers conducting excavation and subsurface work. However, this area is served by a public drinking water supply, so groundwater is not an exposure pathway for through the drinking water supply.

Soil vapor is a potential pathway for exposure within the neighborhood southwest of the Bestway Cleaners based on the RI sampling. PCE was detected in each of the indoor air samples and sub-slab soil vapor samples. In general, PCE concentrations in the sub-slab samples are higher than indoor air samples and ambient air samples. There is an apparent correlation between the locations of detected PCE in soil vapor and contaminated groundwater. Buildings overlying PCE-impacted groundwater have the potential to be impacted by PCE vapor in sub-slab soil vapors and subsequently indoor air.

In summary, potential groundwater and soil exposure pathways exist. Residences within the PCE plume may be impacted by PCE vapors or impacted groundwater seeping into basements during high water periods. Workers conducting excavations and subsurface work may be exposed to contaminated groundwater or vapors.

SECTION 6

CONCLUSIONS

Based on the Remedial Investigation at the Bestway Cleaners site documented in this report, the following conclusions are presented:

- There were no VOCs that exceeded New York State SCOs for unrestricted use in the three surface soil samples collected. Thus, surface soils are not considered a complete exposure pathway additional investigation work is not warranted at this time.
- There were no VOCs that exceeded SCOs for unrestricted use in the eight subsurface soils collected during the RI or as part of the 2009 site characterization effort. Additionally, no VOCs above SCOs are protective of groundwater. Subsurface soils away from the building are therefore not considered a complete exposure pathway.
- Subsurface and the sub slab soil samples beneath the building showed the presence of cyclohexane, isopropylbenzene, and methylcyclohexane, methylene chloride, and PCE. The presence of PCE in the sub-slab soil sample from beneath the building reveals potential impacts to groundwater and as well as soil vapor at and adjacent to the Site.
- Sediment was found, collected and analyzed from one storm sewer manhole near the site. Sediment found from the one manhole has not been impacted by VOCs. Sediments in the sewers are not considered to be a completed exposure pathway.
- Groundwater in the vicinity of the Bestway Cleaners has been impacted by VOCs that exceed New York State Class GA groundwater standards for certain chlorinated VOCs (PCE, TCE, and vinyl chloride) that can be attributed to the Bestway Cleaners Site. Samples of groundwater collected at three locations during the RI also contained acetone and isopropylbenzene, toluene above their respective Class GA guidance values that are not site related. Other VOCs (ethybenzene, isopropylbenzene, n-propylbenzene and xylene) were detected during the 2008 SC investigation above Class GA standards at GW-9.
- The extent of chlorinated VOCs in groundwater above Class GA groundwater standards and guidance values is defined to the north, west, and east.
- Based on RI results, migration pathways to Cazenovia Creek from surface soils, sewer sediment and subsurface soils are not complete.
- Soil vapor intrusion results indicate PCE impacts are present within indoor air and sub-slab samples in the neighborhood southwest of Bestway Cleaners and at the Bestway Cleaners building. Additional sampling of soil vapor is warranted to determine the extent of PCE impacts in homes overlying impacted groundwater.

SECTION 7

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TABLES

Table 1
2013 and 2016 Sampling and Analysis Summary

Matrix	Parameter	Analytical Method	Field Samples			QC Samples		Total Samples
			Number of Samples *	Field Dup**	MS/MSD (Total)**	Trip Blank***	Equip. Blank	
Surface Soil	VOCs	SW-846 SW8260C	3	0	0	0	0	3
Sub-surface Soil****	VOCs	SW-846 SW8260C	9	2	1/1	3	1	17
Sediment	VOCs	SW-846 SW8260C	1	0	0	0	0	1
Water*****	VOCs	SW-846 SW8260C	33	3	2/2	9	0	27
Soil Vapor *****	VOCs	USEPA TO-15	15	2	0	2	0	19

* 1 groundwater sample per monitoring well

** Duplicate, MS/MSD and trip blank samples are combined for sediment, surface soil, and subsurface soil.

*** Trip blanks were included with each cooler that contained water and/or soil VOCs.

**** Includes sub-slab soil sample from Bestway cleaners building.

***** Includes 2 rounds of groundwater sampling in November 2013 and June 2016.

***** Indoor air, sub-slab, and ambient air samples included in soil vapor samples.

TABLE 2
NYSDEC
BESTWAY CLEANERS REMEDIAL INVESTIGATION
2013 and 2016 GROUNDWATER ELEVATION DATA

Well	Elevation TOC*	Elevation Ground*	Screened Interval**	ROUND 1		ROUND 2	
				Depth to Water*** 11/11/2013	Groundwater Elevation* 11/11/2013	Depth to Water*** 6/20-22/2016	Groundwater Elevation* 6/20-22/2016
GW-1 (MWDEC14)	587.58	587.90	20-25	8.32	579.26	9.11	578.47
GW-2 (MWDEC13)	587.11	587.4	15-20	8.37	578.74	NA	NA
GW-3 (MWDEC12)	587.03	587.4	10-15	8.50	578.53	8.80	578.23
GW-4 (MWDEC15)	587.95	588.3	19-24	7.95	580.00	8.23	579.72
GW-5 (MWDEC16)	588.32	588.70	19-24	6.76	581.56	7.89	580.43
GW-7 (MWDEC03)	588.73	588.90	19-24	7.67	581.06	8.48	580.25
GW-8 (MWDEC02)	589.32	589.20	19-24	7.64	581.68	8.52	580.80
GW-9 (MWDEC01)	589.35	589.60	14-19	7.62	581.73	8.55	580.80
MW-8	586.57	586.80	10-15	10.10	576.47	9.78	576.79
MW-9R (MW-9)	586.91	587.10	7-17	8.85	578.06	8.56	578.35
MW-10	587.79	587.80	10-15	9.24	578.55	NA	NA
MW-111	587.62	588.10	7-17	11.00	576.62	11.47	576.15
MW-112	585.94	586.40	7-17	10.48	575.46	10.71	575.23
MW-113	586.31	587.00	9-19	11.61	574.70	11.32	574.99
MW-114	587.12	587.20	7-17	11.34	575.78	10.66	576.46
MW-115	587.96	588.10	9-19	10.66	577.30	9.10	578.86
MW-118	587.92	588.30	7-17	9.07	578.85	9.57	578.35

TOC: Top of casing

* : Elevations in feet above mean sea level (NAVD88)

** : Depth in feet below ground surface

*** : Depth in feet below TOC (pvc)

(MWDEC##) - Former Well ID

NA : Not Available

Preexisting wells GW-6 and MW-7 could not be located during both rounds.

During Round 2, no water levels were collected from GW-2 (could not be located) and MW-10 (could not be opened).

Table 3
2013 Surface Soil Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Surface Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	Location ID:	SS-01	SS-02	SS-03
			Sample ID:	SS-01 (0-0.5)	SS-02 (0-0.5)	SS-03 (0-0.5)
			Lab Sample Id	480-49424-1	480-49424-2	480-49424-3
			Source:	TALBUFF	TALBUFF	TALBUFF
			SDG:	480494191	480494191	480494191
			Matrix:	SOIL	SOIL	SOIL
			Sampled:	11/5/2013	11/5/2013	11/5/2013
			Validated:	1/8/2014	1/8/2014	1/8/2014
CAS NO.	COMPOUND		UNITS:			
	VOLATILES					
127-18-4	TETRACHLOROETHYLENE(PCE)	1300	ug/kg	11	6.8 U	6.5 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Table 4
2013 Subsurface Soil Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, New York

					Dup of MW111SB MW111SB-0911						
NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375	Location ID: Sample ID:	MW9ASB MW9ASB-0911	MW111SB MW111SB-0911	MW111SB MW211SB-0911	MW112SB MW112SB-0709	MW113SB MW113SB-0911	MW114SB MW114SB-0911	MW115SB MW115SB-0911	MW118SB MW118SB-1113
		Unrestricted	Lab Sample Id	480-49793-2	480-49538-2	480-49538-3	480-49538-1	480-49425-2	480-49944-1	480-49793-3	480-49425-1
		Cleanup	Source:	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF
		Objective (ppm)	SDG:	480494191	480494191	480494191	480494191	480494191	480494191	480494191	480494191
		NS = not specified	Matrix: Sampled: Validated:	SOIL 11/7/2013 1/8/2014	SOIL 11/6/2013 1/8/2014	SOIL 11/6/2013 1/8/2014	SOIL 11/6/2013 1/8/2014	SOIL 11/5/2013 1/8/2014	SOIL 11/11/2013 1/8/2014	SOIL 11/8/2013 1/8/2014	SOIL 11/4/2013 1/8/2014
CAS NO.	COMPOUND		UNITS:								
	VOLATILES										
67-64-1	ACETONE	50	ug/kg	28 UJ	33 U	34 U	24 J	29 U	31 U	33 UJ	30 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	250	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U	6.1 U	6.5 UJ	5.4 J
110-82-7	CYCLOHEXANE	NS	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U	6.1 U	6.5 U	5.9 U
100-41-4	ETHYLBENZENE	1000	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U	0.5 J	6.5 UJ	5.9 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U	6.1 U	6.5 U	5.9 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U	6.1 U	6.5 U	5.9 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	120	ug/kg	28 U	33 U	34 U	16 J	29 U	31 U	33 U	30 U
75-09-2	METHYLENE CHLORIDE	50	ug/kg	14	6.6 U	6.8 U	6.2 U	9.9	6.1 U	26	16
127-18-4	TETRACHLOROETHYLENE(PCE)	1300	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U	6.1 U	6.5 UJ	22
79-01-6	TRICHLOROETHYLENE (TCE)	470	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U	6.1 U	6.5 UJ	1.9 J
XYLENES	XYLENES, TOTAL	260	ug/kg	11 U	13 U	14 U	12 U	12 U	1.7 J	13 U	12 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Table 4
2013 Subsurface Soil Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, New York

						Dup of B-1_2015-10-19 (15.5-16.0)
NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	B-1 B-1_2015-10-19 (3.0-3.5) 480-89388-1 TALBUFF 480893881 SOIL 10/19/2015 12:30 12/4/2015	B-1 B-1_2015-10-19 (15.5-16.0) 480-89388-2 TALBUFF 480893881 SOIL 10/19/2015 14:00 12/4/2015	B-1 B-10_2015-10-19 (15.5-16.0) 480-89388-3 TALBUFF 480893881 SOIL 10/19/2015 12:01 12/4/2015
CAS NO.	COMPOUND		UNITS:			
	VOLATILES					
67-64-1	ACETONE	50	ug/kg	32 U	7100 U	7000 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	250	ug/kg	6.4 U	1400 U	1400 U
110-82-7	CYCLOHEXANE	NS	ug/kg	6.4 U	1900	2000
100-41-4	ETHYLBENZENE	1000	ug/kg	6.4 U	1400 U	1400 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	ug/kg	6.4 U	260 J	290 J
108-87-2	METHYLCYCLOHEXANE	NS	ug/kg	6.4 U	9200	9500
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	120	ug/kg	32 U	7100 U	7000 U
75-09-2	METHYLENE CHLORIDE	50	ug/kg	18	1400 U	1400 U
127-18-4	TETRACHLOROETHYLENE(PCE)	1300	ug/kg	220	1400 U	1400 U
79-01-6	TRICHLOROETHYLENE (TCE)	470	ug/kg	6.4 U	1400 U	1400 U
XYLENES	XYLENES, TOTAL	260	ug/kg	6.4 J	2900 U	2800 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Table 5
2013 Sediment Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, New York

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Sediment Analytical Data Detected Compound Summary		Location ID:	SED-01
		Sample ID:	SED-01
		Lab Sample Id:	480-49536-1
		Source:	TALBUFF
		SDG:	480494191
		Matrix:	SOIL
		Sampled:	11/6/2013
		Validated:	1/8/2014
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
	NONE DETECTED	ug/kg	ND

Notes:
ND - compound not detected.

TABLE 6
2013 and 2016 GROUNDWATER FIELD PARAMETERS
BESTWAY CLEANERS REMEDIAL INVESTIGATION
BUFFALO, NEW YORK

ROUND 1 (NOVEMBER 2013)						
Well	pH	Conductivity (mS/cm)	Temperature (Degrees C)	Dissolved Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	Turbidity (NTUs)
GW-1 (MWDEC14)	6.12	3.86	16.97	0.00	27	7.3
GW-2 (MWDEC13)	6.92	2.75	16.25	0.00	2	0.00
GW-3 (MWDEC12)	6.11	3.67	15.72	0.00	146	0.0
GW-4 (MWDEC15)	6.70	4.90	14.63	0.00	-1	0.00
GW-5 (MWDEC16)	6.78	0.87	11.99	0.00	50	166
GW-7 (MWDEC03)	7.28	3.12	11.75	0.00	28	0.4
GW-8 (MWDEC02)	6.69	0.936	13.8	0.00	22	6.4
GW-9 (MWDEC01)	6.93	3.12	14.06	0.00	-78	0.1
MW-8	7.23	1.44	17.33	0.00	-97	NA
MW-9R (MW-9)	6.76	3.16	14.33	0.00	194	7
MW-10	7.16	1.07	15.58	0.00	-2	4.3
MW-111	6.08	4.09	13.21	0.00	192	0.0
MW-112	7.04	2.40	16.22	0.00	112	0.0
MW-113	7.03	1.50	15.22	0.00	53	0.0
MW-114	7.07	0.974	12.55	0.00	97	0.0
MW-115	6.93	1.21	14.05	0.00	140	8.8
MW-118	6.03	1.52	16.39	0.00	115	0.0
Standards*	6.5<X<8.5	NA	NA	NA	NA	X<5

* - Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations

6.12 Measurement is above or below the Water Quality Standard.Range.

NA : Not Available

Preexisting wells GW-6 and MW-7 were temporary wells abandoned after sampling in 2006.

TABLE 6
2013 and 2016 GROUNDWATER FIELD PARAMETERS
BESTWAY CLEANERS REMEDIAL INVESTIGATION
BUFFALO, NEW YORK

ROUND 2 (JUNE 2016)						
Well	pH	Conductivity (mS/cm)	Temperature (Degrees C)	Dissolved Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	Turbidity (NTUs)
GW-1 (MWDEC14)	5.59	0.76	18.57	1.40	34	10.89
GW-2 (MWDEC13)	NA	NA	NA	NA	NA	NA
GW-3 (MWDEC12)	6.12	0.618	17	2.12	192	1.32
GW-4 (MWDEC15)	6.4	1.08	16.84	3.24	13	64.80
GW-5 (MWDEC16)	6.63	0.96	18.21	0.30	10	7.49
GW-7 (MWDEC03)	6.09	0.65	18.3	4.39	122	1.12
GW-8 (MWDEC02)	5.94	0.74	17.46	1.96	-48	53.10
GW-9 (MWDEC01)	6.57	3.20	18.24	1.00	-94	1.83
MW-8	6.48	1.70	15.77	1.28	-142	25.30
MW-9R (MW-9)	6.98	1.53	18.66	1.58	161	9.68
MW-10	NA	NA	NA	NA	NA	NA
MW-111	6.69	0.91	18.18	0.74	161	2.91
MW-112	6.77	4.83	18.23	0.03	-37	4.35
MW-113	6.32	0.62	15.91	1.26	64	3.98
MW-114	6.59	0.30	16.96	2.26	80	6.71
MW-115	6.74	0.21	18.66	3.37	165	4.38
MW-118	6.18	1.05	18.02	0.95	107	0.83
Standards*	6.5<X<8.5	NA	NA	NA	NA	X<5

* - Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations

6.12 Measurement is above or below the Water Quality Standard.Range.

NA : Not Available

Preexisting wells GW-6 and MW-7 were temporary wells abandoned after sampling in 2006.

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:			Dup of GW-2-111413					
CAS NO.	COMPOUND			GW-1	GW-2	GW-2	GW-3	GW-4	GW-5	GW-7	GW-8
NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary				GW-1-111413 480-50249-5 TALBUFF 480500441 WATER 11/15/2013 1/8/2014	GW-2-111413 480-50249-2 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-102-111413 480-50249-3 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-3-111813 480-50409-2 TALBUFF 480500441 WATER 11/18/2013 1/8/2014	GW-4-111813 480-50409-1 TALBUFF 480500441 WATER 11/18/2013 1/8/2014	GW-5-111213 480-50044-1 TALBUFF 480500441 WATER 11/12/2013 1/8/2014	GW-7-111413 480-50249-1 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-8-111213 480-49943-1 TALBUFF 480494191 WATER 11/12/2013 1/8/2014
	VOLATILES		UNITS:								
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.43 J
75-35-4	1,1-DICHLOROETHENE	5	ug/l	1 U	0.49 J	0.41 J	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	1 U	1 U	0.47 J	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	50 (G)	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	50 (G)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
75-27-4	BROMODICHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	7	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	17	280	280	160	1 U	1 U	1 U	9.9
110-82-7	CYCLOHEXANE	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
75-09-2	METHYLENE CHLORIDE	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.9
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	32	100	99	79	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	1 U	2.5	2.4	1.3	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	10	44	43	28	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	2	ug/l	1.7	4.1	4.2	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	5	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample ID	GW-9 GW-9-111213 480-49941-1 Source: SDG: Matrix: Sampled: Validated:	MW-8 MW-8-110513 480-49419-1 TALBUFF 480494191 WATER 11/5/2013 1/8/2014	MW-9R MW-9R-111413 480-50137-3 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	MW-10 MW-10-110613 480-49534-1 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW-11 MW-11-111813 480-50409-3 TALBUFF 480500441 WATER 11/18/2013 1/8/2014
CAS NO.	COMPOUND		UNITS:					
	VOLATILES							
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	5	ug/l	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	50 (G)	ug/l	5 U	5 U	5 U	5 UJ	5 U
67-64-1	ACETONE	50 (G)	ug/l	110	10 UJ	10 U	3 J	10 U
75-27-4	BROMODICHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	7	ug/l	1 U	1 U	1 U	1 U	0.58 J
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	1 U	2.6	38	2.9	1 U
110-82-7	CYCLOHEXANE	NS	ug/l	81	1 U	1 UJ	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	5	ug/l	1.5	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	25	1 U	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	110	1 U	1 U	1 U	1 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	10 U	10 UJ	10 U	10 UJ	10 U
75-09-2	METHYLENE CHLORIDE	5	ug/L	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	1 U	1 U	12	1 U	12
108-88-3	TOLUENE	5	ug/l	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	1 U	27	6.4	1 U	1 U
75-01-4	VINYL CHLORIDE	2	ug/l	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	5	ug/l	1.9 J	2 U	2 U	2 U	2 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality
Standards/Guidance Criteria

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

										Dup of B-1_2015-10-20	
NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample Id	MW-112 MW-112-111313	MW-113 MW-113-111313	MW-114 MW-114-111313	MW-115 MW-115-111313	MW-118 MW-118-111413	B-1 B-1_2015-10-20	B-1 B-10_2015-10-20	
			Source: SDG: Matrix: Sampled: Validated:	480-50045-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	480-50137-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	480-50137-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	480-50045-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	480-50249-4 TALBUFF 480500441 WATER 11/15/2013 1/8/2014	480-89464-1 TALBUFF 480894641 WATER 10/20/2015 12/4/2015	480-89464-2 TALBUFF 480894641 WATER 10/20/2015 12/4/2015	
CAS NO.	COMPOUND		UNITS:								
	VOLATILES										
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	1 U	1 U	1 U	1 U	1 U	1 U	0.66 J	
75-34-3	1,1-DICHLOROETHANE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
75-35-4	1,1-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
591-78-6	2-HEXANONE	50 (G)	ug/l	5 U	5 U	5 U	5 U	5 U	3 J	3.8 J	
67-64-1	ACETONE	50 (G)	ug/l	10 UJ	10 U	10 U	3.2 J	10 U	10 U	10 U	
75-27-4	BROMODICHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
67-66-3	CHLOROFORM	7	ug/l	1 U	1 U	1 U	1 U	1 U	0.35 J	0.34 J	
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	1 U	1 U	1 U	4.5	85	0.84 J	1 U	
110-82-7	CYCLOHEXANE	NS	ug/l	1 U	1 UJ	1 UJ	1 U	1 U	34	44	
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
100-41-4	ETHYLBENZENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1.6	1.7	
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	1 U	1 U	1 U	1 U	1 U	6.7	7.4	
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	1 U	1 U	1 U	1 U	1 U	70	89	
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	3.1 J	
75-09-2	METHYLENE CHLORIDE	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	6.7	1 U	1 U	1 U	120	29	29	
108-88-3	TOLUENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	12	13	
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	0.6 J	1 U	1 U	1 U	22	1.6	2	
75-01-4	VINYL CHLORIDE	2	ug/l	1 U	1 U	1 U	1 U	1.5	1 U	1 U	
XYLENES	XYLENES, TOTAL	5	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U	

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality
Standards/Guidance Criteria

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample Id	GW-1 480-101971-4 TALBUFF SDG: 4801019711 WATER Sampled: 6/20/2016 15:40 Validated: 7/14/2016	GW-3 480-101971-3 TALBUFF SDG: 4801019711 WATER Sampled: 6/20/2016 15:35 Validated: 7/14/2016	DUP of GW-3 GW-3 480-101971-2 TALBUFF SDG: 4801019711 WATER Sampled: 6/20/2016 12:01 Validated: 7/14/2016	GW-4 480-102072-2 TALBUFF SDG: 4801020721 WATER Sampled: 6/22/2016 8:15 Validated: 7/14/2016	GW-5 480-102017-2 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 9:40 Validated: 7/14/2016	GW-7 480-102072-5 TALBUFF SDG: 4801020721 WATER Sampled: 6/22/2016 10:00 Validated: 7/14/2016	GW-8 480-102072-3 TALBUFF SDG: 4801020721 WATER Sampled: 6/22/2016 11:25 Validated: 7/14/2016
CAS NO.	COMPOUND		UNITS:							
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	50 (G)	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	50 (G)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U
75-27-4	BROMODICHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	7	ug/l	1 U	1.5	1.6	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	7.3	39	39	1 U	1 U	1 U	14
110-82-7	CYCLOHEXANE	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U
75-09-2	METHYLENE CHLORIDE	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1.8
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	14	30	29	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	5.5	11	11	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	2	ug/l	2.6	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	5	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality
Standards/Guidance Criteria

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample Id	GW-9 480-102072-4 TALBUFF SDG: 4801020721 WATER Sampled: 6/22/2016 10:15 Validated: 7/14/2016	MW-111 480-102017-7 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 15:30 Validated: 7/14/2016	MW-112 480-102017-6 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 14:10 Validated: 7/14/2016	MW-113 480-102017-9 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 14:20 Validated: 7/14/2016	MW-114 480-102017-4 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 11:00 Validated: 7/14/2016	MW-115 480-102017-3 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 11:10 Validated: 7/14/2016	MW-118 480-102017-10 TALBUFF SDG: 4801020171 WATER Sampled: 6/21/2016 15:30 Validated: 7/14/2016
CAS NO.	COMPOUND		UNITS:							
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
75-34-3	1,1-DICHLOROETHANE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
75-35-4	1,1-DICHLOROETHENE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
591-78-6	2-HEXANONE	50 (G)	ug/l	10 U	5 U	5 U	5 U	5 U	5 U	10 U
67-64-1	ACETONE	50 (G)	ug/l	20 U	10 U	10 U	10 U	10 U	10 U	20 U
75-27-4	BROMODICHLOROMETHANE	50	ug/l	2 U	1 U	1 U	1 U	1 U	12	2 U
67-66-3	CHLOROFORM	7	ug/l	2 U	1 U	1 U	1 U	1 U	33	2 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	91
110-82-7	CYCLOHEXANE	NS	ug/l	51	1 U	1 U	1 U	1 U	1 U	2 U
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	2 U	1 U	1 U	1 U	1 U	3.3	2 U
100-41-4	ETHYLBENZENE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	31	1 U	1 U	1 U	1 U	1 U	2 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	100	1 U	1 U	1 U	1 U	1 U	2 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	20 U	10 U	10 U	10 U	10 U	10 U	20 U
75-09-2	METHYLENE CHLORIDE	5	ug/L	4.3	1 U	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	2 U	11	3.3	1 U	1 U	1 U	86
108-88-3	TOLUENE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	19
75-01-4	VINYL CHLORIDE	2	ug/l	2 U	1 U	1 U	1 U	1 U	1 U	2 U
XYLENES	XYLENES, TOTAL	5	ug/l	4 U	2 U	2 U	2 U	2 U	2 U	4 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality
Standards/Guidance Criteria

Table 7
2013 and 2016 Groundwater Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

NYSDEC-Bestway Cleaners 2013 and 2015 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	Location ID: Sample ID: Lab Sample Id	MW-8 480-102017-8	MW-9R 480-102017-5
			Source: SDG: Matrix: Sampled: Validated:	TALBUFF 4801020171 WATER 6/21/2016 13:10 7/14/2016	TALBUFF 4801020171 WATER 6/21/2016 12:35 7/14/2016
CAS NO.	COMPOUND		UNITS:		
	VOLATILES				
79-34-5	1,1,2,2-TETRACHLOROETHANE		ug/l	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	5	ug/l	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	ug/l	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	ug/l	1 U	1 U
591-78-6	2-HEXANONE	50 (G)	ug/l	5 U	5 U
67-64-1	ACETONE	50 (G)	ug/l	10 U	10 U
75-27-4	BROMODICHLOROMETHANE	50	ug/l	1 U	1 U
67-66-3	CHLOROFORM	7	ug/l	1 U	0.73 J
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/l	1 U	10
110-82-7	CYCLOHEXANE	NS	ug/l	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	50	ug/l	1 U	1 U
100-41-4	ETHYLBENZENE	5	ug/l	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	ug/l	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	ug/l	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	50 (G)	ug/l	10 U	10 U
75-09-2	METHYLENE CHLORIDE	5	ug/L	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	ug/l	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	1 U	7.7
108-88-3	TOLUENE	5	ug/l	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/l	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	1 U	3.5
75-01-4	VINYL CHLORIDE	2	ug/l	1 U	1 U
XYLENES	XYLENES, TOTAL	5	ug/l	2 U	2 U

Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit

NS - No Standard or Guidance Criteria.

Detected concentrations shown in bold font.

Shaded concentrations exceed NYSDEC Class GA Ambient Water Quality
Standards/Guidance Criteria

Table 8
2013 Soil Vapor Intrusion Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

			2075 Seneca Street				
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID:	2408A-IA1	2408A-IA2	2408A-SS1	2408A-SS2	AA
		Sample ID:	2408A-IA1-032014	2408A-IA2-032014	2408A-SS1-032014	2408A-SS2-032014	AA-032014
		Lab Sample Id:	140-1106-1	140-1106-3	140-1106-5	140-1106-2	140-1106-4
		Source:	TALKNX	TALKNX	TALKNX	TALKNX	TALKNX
		SDG:	14011061	14011061	14011061	14011061	14011061
		Matrix:	AIR	AIR	AIR	AIR	AIR
		Sampled:	3/20/2014 15:59	3/20/2014 15:59	3/20/2014 15:59	3/20/2014 15:59	3/20/2014 16:09
		Validated:	5/27/2014	5/27/2014	5/27/2014	5/27/2014	5/27/2014
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	53 U	22 U	89 U	11 U	0.44 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	74 U	31 U	130 U	15 U	0.61 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	48 U	20 U	80 U	18	0.39 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	48 U	20 U	80 U	9.8 U	0.39 U
71-43-2	BENZENE	ug/m3	31 U	13 U	52 U	6.4 U	0.61
56-23-5	CARBON TETRACHLORIDE	ug/m3	30 U	13 U	51 U	6.3 U	0.47
74-87-3	CHLOROMETHANE	ug/m3	50 U	21 U	84 U	10 U	1.1
110-82-7	CYCLOHEXANE	ug/m3	83 U	35 U	140 U	37	0.69 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	48 U	20 U	81 U	9.9 U	2.3
64-17-5	ETHANOL	ug/m3	180 U	76 U	310 U	38 U	7.4
100-41-4	ETHYLBENZENE	ug/m3	42 U	18 U	71 U	8.7 U	0.35 U
179601-23-1	M,P-XYLENES	ug/m3	42 U	18 U	71 U	25	0.43
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	110 U	48 U	190 U	24 U	0.94 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	99 U	41 U	170 U	20 U	0.82 U
75-09-2	METHYLENE CHLORIDE	ug/m3	84 U	35 U	140 U	17 U	0.69 U
110-54-3	N-HEXANE	ug/m3	85 U	36 U	140 U	31	0.7 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	42 U	18 U	71 U	8.7 U	0.35 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	8300	3600	20000	980	0.54 U
108-88-3	TOLUENE	ug/m3	55 U	23 U	92 U	11 U	0.85
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	54 U	23 U	92 U	11 U	1.2

Notes:

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Detected concentrations shown in bold font.

Table 8
2013 Soil Vapor Intrusion Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

			Structure No. 4				Structure No. 3	
					Dup of 354Y-SS			
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID:	354Y-IA	354Y-SS	354Y-SS	AA	360E-IA	360E-SS
		Sample ID:	354Y-IA-031714	354Y-SS-031714	SSD-031714	AA-031714	360E-IA-031714	360E-SS-031714
		Lab Sample Id:	140-1082-1	140-1082-2	140-1082-3	140-1082-4	140-1082-5	140-1082-6
		Source:	TALKNX	TALKNX	TALKNX	TALKNX	TALKNX	TALKNX
		SDG:	14010821	14010821	14010821	14010821	14010821	14010821
		Matrix:	AIR	AIR	AIR	AIR	AIR	AIR
		Sampled:	3/18/2014 13:00	3/18/2014 13:00	3/18/2014 0:00	3/18/2014 12:59	3/18/2014 11:00	3/18/2014 11:00
		Validated:	5/27/2014	5/27/2014	5/27/2014	5/27/2014	5/27/2014	5/27/2014
CAS NO.	COMPOUND	UNITS:						
	VOLATILES							
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	4.4 U	4.4 U	0.44 U	0.44 U	22 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.64	6.1 U	6.1 U	0.61 U	0.61 U	31 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.91	3.9 U	3.9 U	0.52	0.55	20 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	3.9 U	3.9 U	0.39 U	0.39 U	20 U
71-43-2	BENZENE	ug/m3	1.1	2.6 U	2.6 U	0.84	0.73	13 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.48	2.5 U	2.5 U	0.37	0.4	13 U
74-87-3	CHLOROMETHANE	ug/m3	1.4	4.1 U	4.1 U	1.3	1.2	21 U
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	6.9 U	6.9 U	0.69 U	0.69 U	34 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	0.54	4 U	4 U	0.51	0.55	20 U
64-17-5	ETHANOL	ug/m3	150	15 U	15 U	12	36	75 U
100-41-4	ETHYLBENZENE	ug/m3	0.38	3.5 U	3.5 U	0.35 U	0.35 U	17 U
179601-23-1	M,P-XYLENES	ug/m3	1.2	3.5 U	3.5 U	0.81	0.74	17 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	1	9.4 U	9.4 U	0.94 U	4.1	47 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	0.82 U	8.2 U	8.8	0.82 U	1.5	41 U
75-09-2	METHYLENE CHLORIDE	ug/m3	0.69 U	6.9 U	6.9 U	0.69 U	0.69 U	35 U
110-54-3	N-HEXANE	ug/m3	0.88	7 U	7 U	0.7 U	0.7	35 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.45	3.5 U	3.5 U	0.35 U	0.35 U	17 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	2.5	710	750	0.68	3.2	1500
108-88-3	TOLUENE	ug/m3	7.3	4.5 U	4.5 U	1.3	2.2	23 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.1	4.5 U	4.5 U	1	1.2	22 U

Notes:

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J - estimated concentration below the contract required detection limit.

Detected concentrations shown in bold font.

Table 8
2013 Soil Vapor Intrusion Analytical Results
Detected Compound Summary
Bestway Cleaners
Buffalo, NY

			Structure No. 2			Structure No. 1		
						Dup of 387E-IA		
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID:	383E-IA	383E-SS	AA	387E-IA	387E-IA	387E-SS
		Sample ID:	383E-IA-031814	383E-SS-031814	AA-031814	387E-IA-031714	IAD-031714	387E-SS-031714
		Lab Sample Id:	140-1089-4	140-1089-5	140-1089-6	140-1089-1	140-1089-3	140-1089-2
		Source:	TALKNX	TALKNX	TALKNX	TALKNX	TALKNX	TALKNX
		SDG:	14010891	14010891	14010891	14010891	14010891	14010891
		Matrix:	AIR	AIR	AIR	AIR	AIR	AIR
		Sampled:	3/19/2014 14:53	3/19/2014 14:53	3/19/2014 14:53	3/18/2014 14:52	3/18/2014 0:00	3/18/2014 14:52
Validated:		5/27/2014	5/27/2014	5/27/2014	5/27/2014	5/27/2014	5/27/2014	
CAS NO.	COMPOUND	UNITS:						
	VOLATILES							
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	2.1	0.44 U	0.44 U	0.44 U	8.5
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	3.5	0.81	0.66	0.49	0.77	0.76
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.75	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
71-43-2	BENZENE	ug/m3	2.6	0.26 U	1.1	0.66	0.79	0.26 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.5	0.25 U	0.54	0.43	0.52	0.25 U
74-87-3	CHLOROMETHANE	ug/m3	1.1	0.41 U	0.86	1	0.94	0.69
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2	1.7	2.2	2	2.2	1.7
64-17-5	ETHANOL	ug/m3	25	1.6	16	110	120	3.2
100-41-4	ETHYLBENZENE	ug/m3	2.2	0.35 U	0.37	0.35 U	0.35 U	0.35 U
179601-23-1	M,P-XYLENES	ug/m3	9.4	0.62	1.4	0.94	1.5	1.2
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	0.82 UJ	0.82 UJ	0.82 UJ	3.1 J-	1.8 J-	0.82 UJ
75-09-2	METHYLENE CHLORIDE	ug/m3	0.69 U	0.69 U	0.69 U	2.7	3.2	0.69 U
110-54-3	N-HEXANE	ug/m3	4.4 J-	0.7 UJ	0.79 J-	0.7 UJ	0.7 UJ	0.7 UJ
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	3	0.35 U	0.53	0.35	0.46	0.38
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	1.3	33	0.67	3.7	4.5	8.3
108-88-3	TOLUENE	ug/m3	10	0.81	2.2	1.7	1.9	0.93
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.4	1.3	1.5	1.3	1.5	1.1

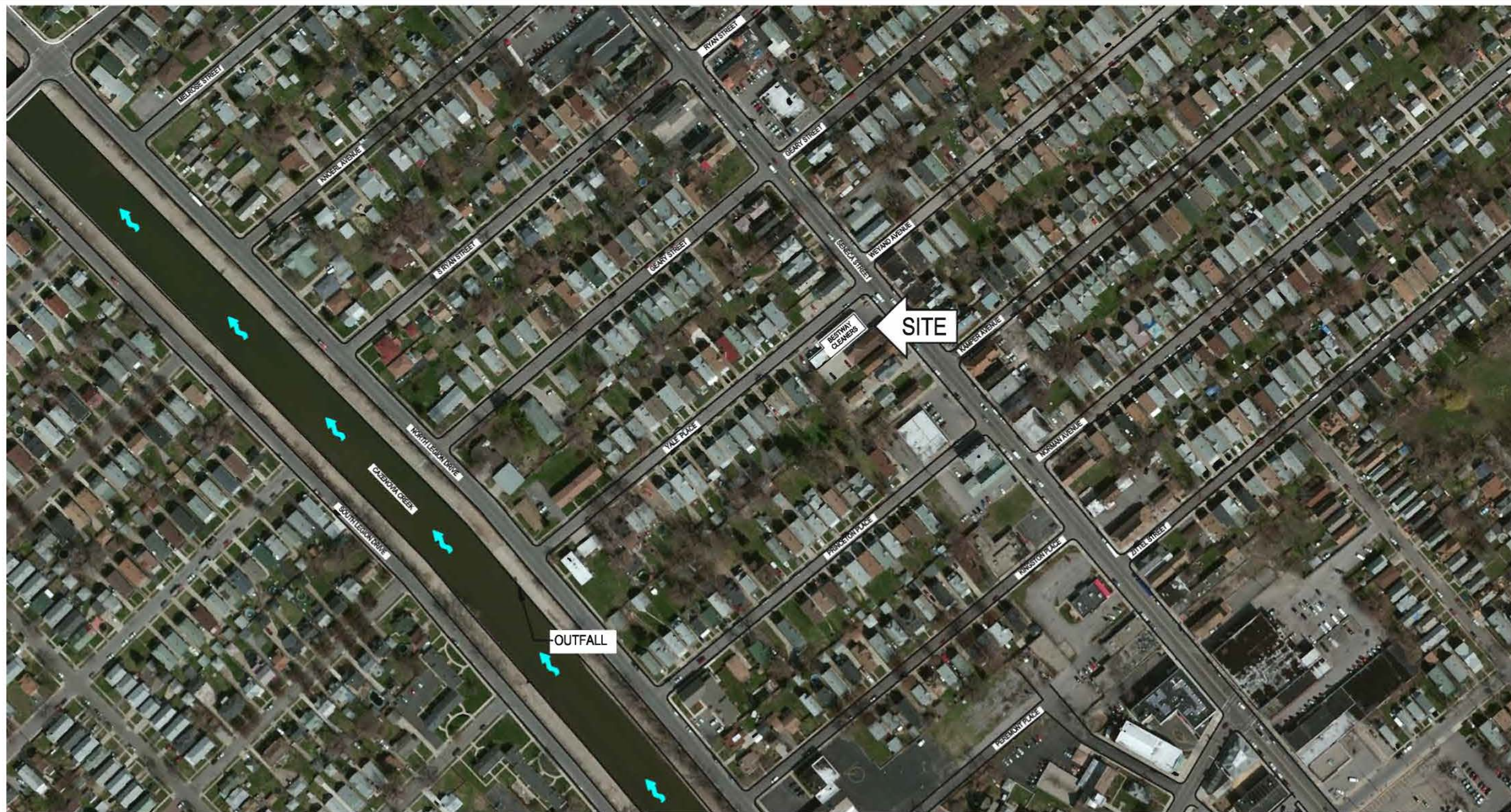
Notes:

U - compound not detected. Detection limit posted.

J - estimated concentration below the contract required detection limit.

Detected concentrations shown in bold font.

FIGURES



SCALE: 1"=200'

LEGEND



CREAK FLOW DIRECTION

FIGURE 1



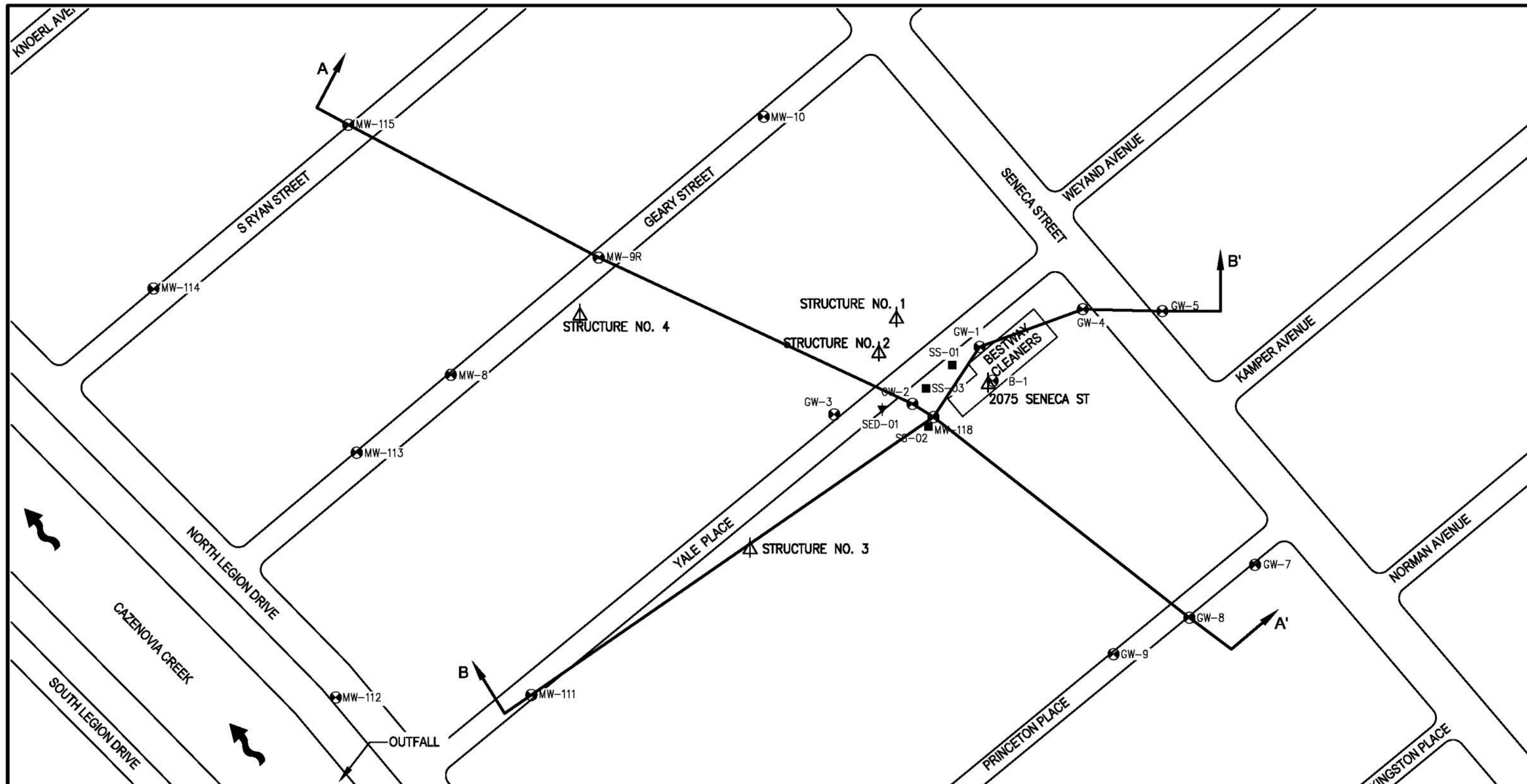
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

SITE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9500



100 50 0 100 200

SCALE: 1"=100'

LEGEND

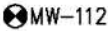
-  MW-112 MONITORING WELL
-  SOIL VAPOR SAMPLE LOCATION
-  SS-01 SOIL SAMPLE LOCATION
-  SED-01 SEDIMENT SAMPLE LOCATION
-  CROSS SECTION LOCATION MARKER

FIGURE 2



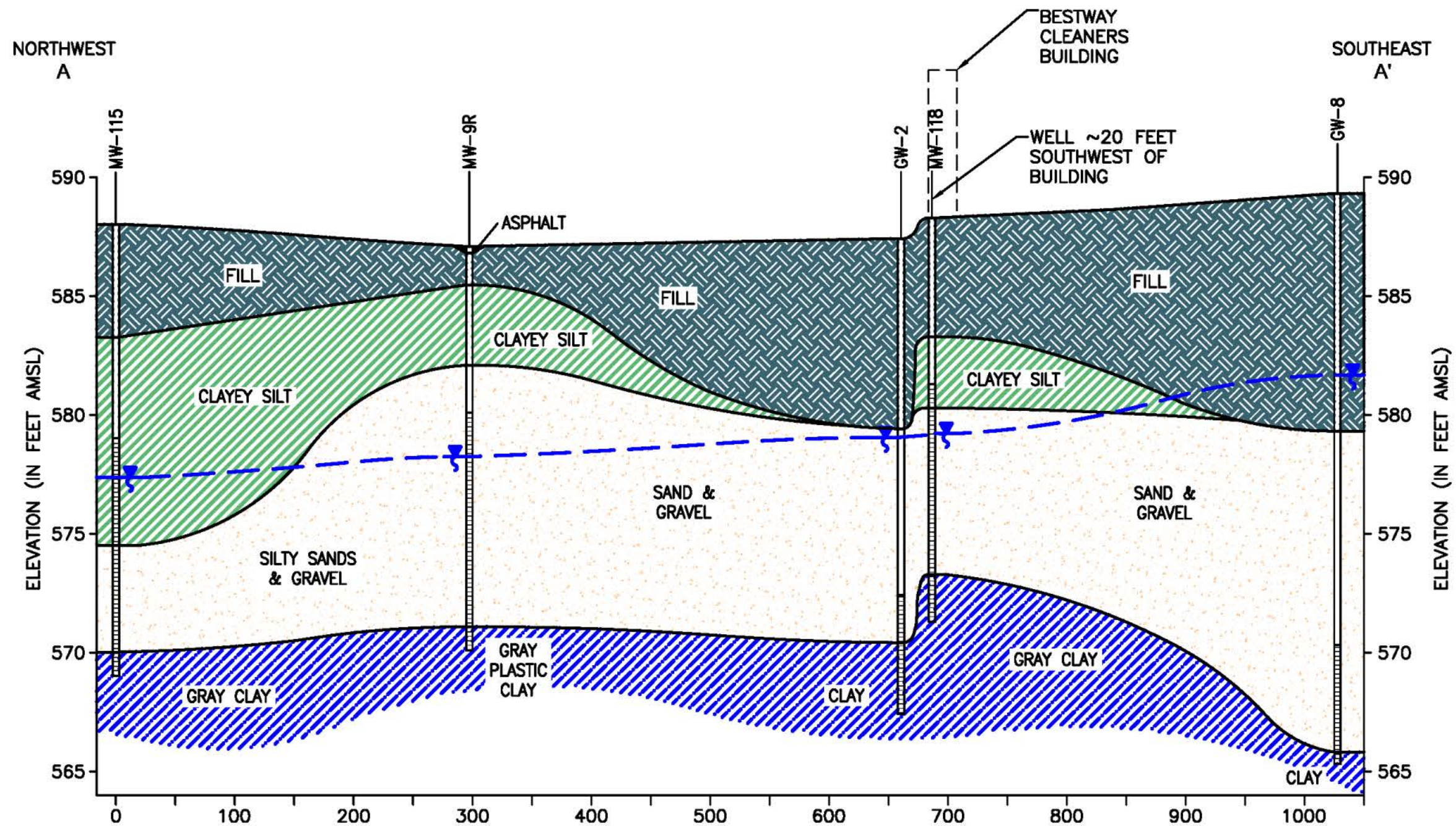
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

SAMPLE AND CROSS SECTION LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9580



HORIZONTAL SCALE = 1"=100'
VERTICAL SCALE = 1"=5'



SCALE: 1"=100'

LEGEND

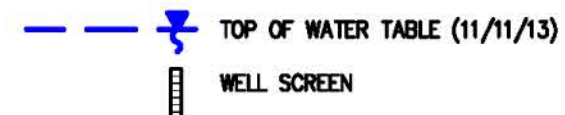


FIGURE 3

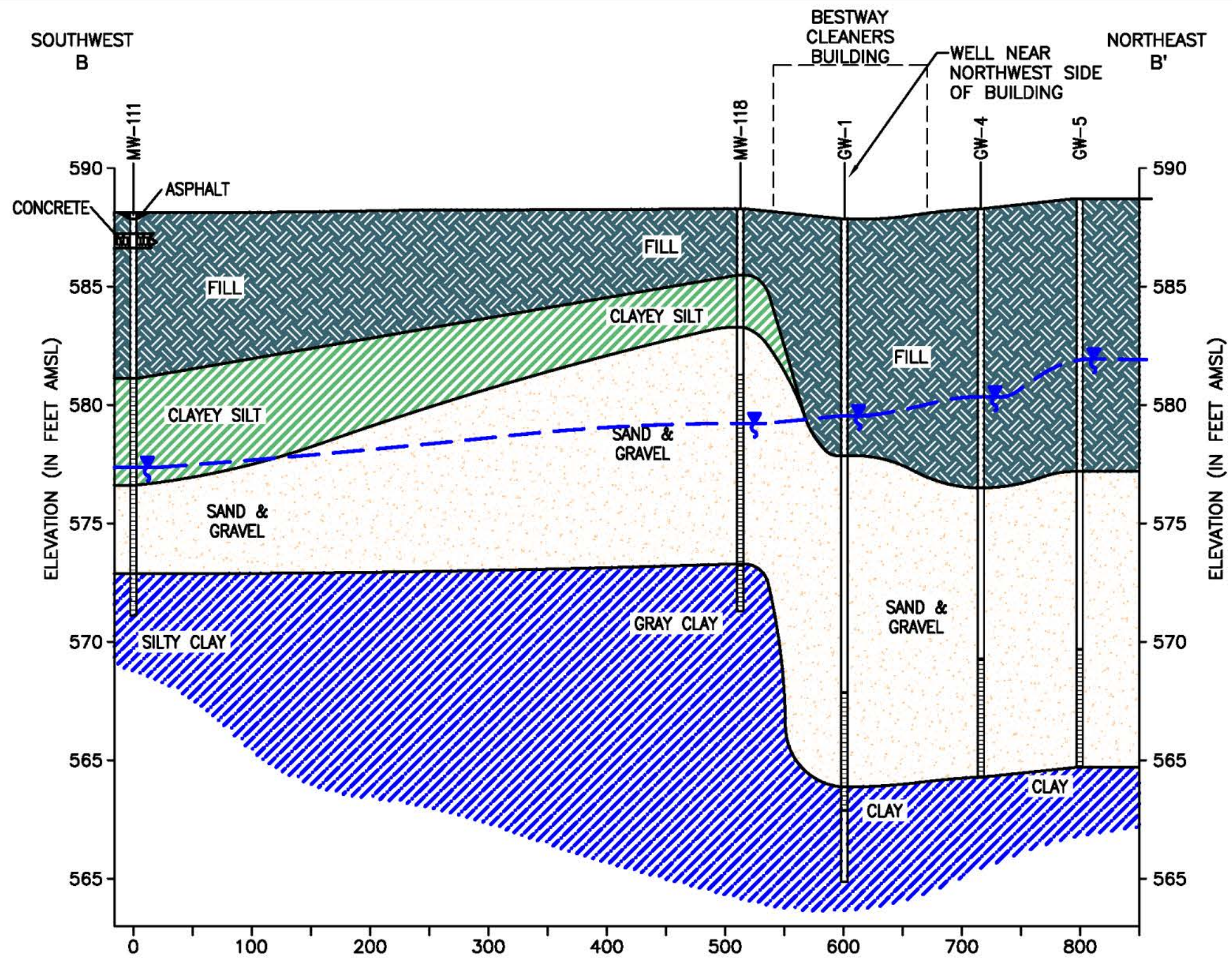


BESTWAY CLEANERS

CROSS SECTION A-A'

PARSONS

301 PLAINFIELD ROAD, SUITE 300, SYRACUSE, N.Y. 13212, PHONE: 315-461-9680



LEGEND

- — — — — TOP OF WATER TABLE (11/11/13)
- ⌚ WELL SCREEN

HORIZONTAL SCALE = 1"=100'

VERTICAL SCALE = 1"=5'



SCALE: 1"=100'

FIGURE 4



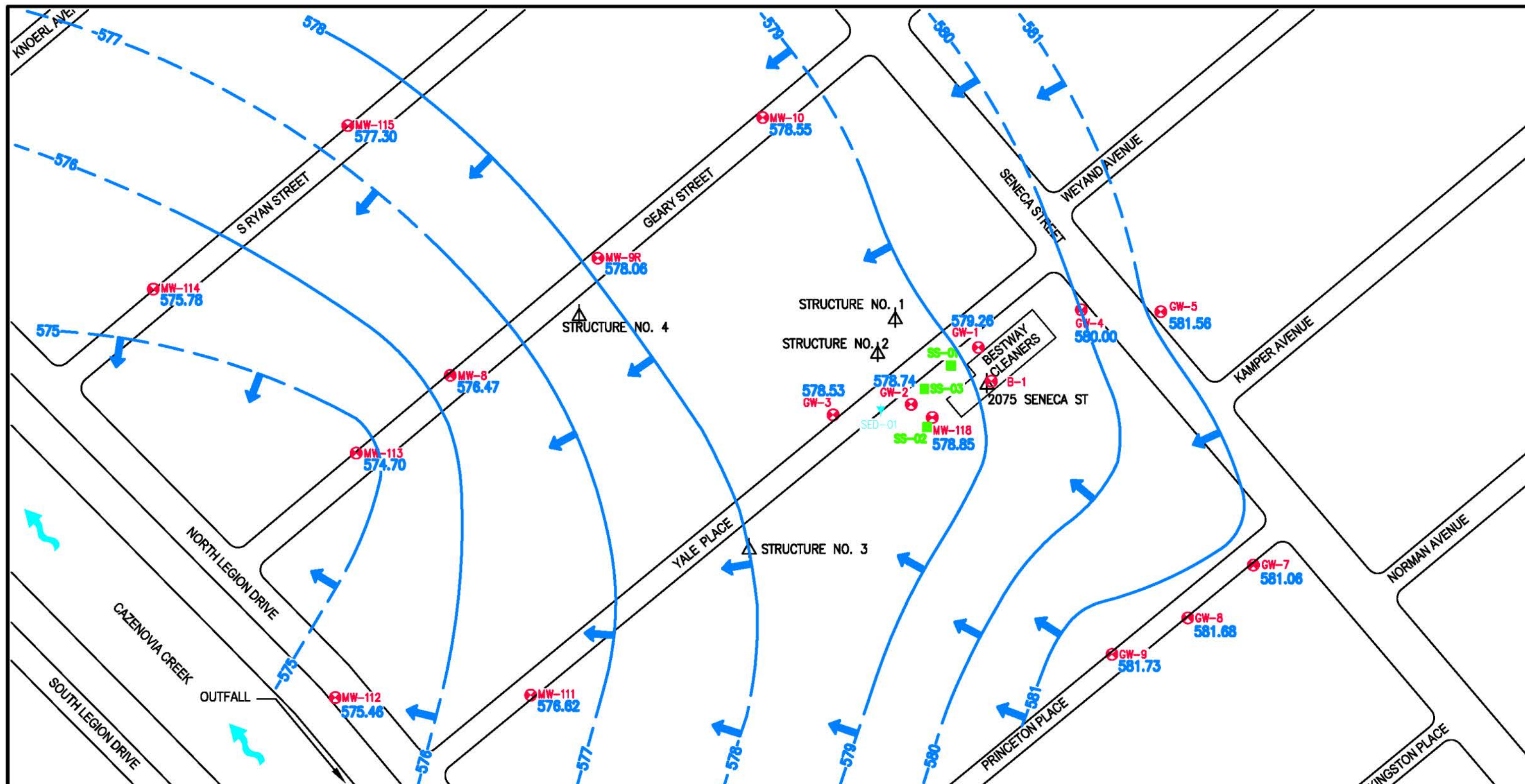
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

CROSS SECTION B-B'

PARSONS

301 PLAINFIELD ROAD, SUITE 300, SYRACUSE, N.Y. 13212, PHONE: 315-461-9580



SCALE: 1"=100'

LEGEND

- 579 GROUNDWATER ELEVATION CONTOUR (FEET, NAD83)
- GROUNDWATER ELEVATION CONTOUR INFERRED (FEET, NAD83)
- GROUNDWATER FLOW DIRECTION
- ⊗ MW-111 576.82 GROUNDWATER ELEVATION AT WELL MEASURED ON 11/11/13
- CREEK FLOW DIRECTION

FIGURE 5



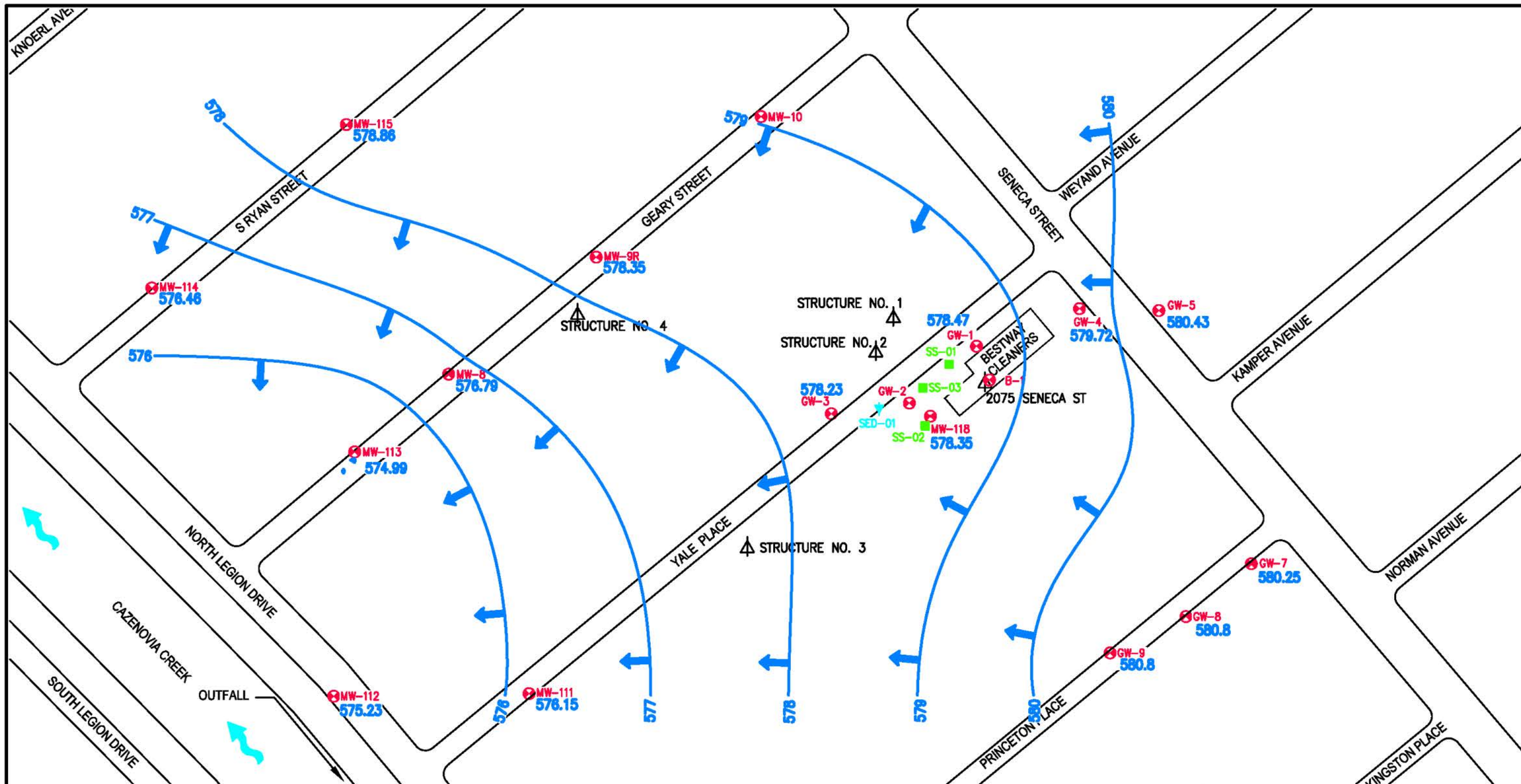
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

WATER TABLE ELEVATIONS AND FLOW DIRECTION MAP NOVEMBER 2013

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9580



NOTE:
B-1, GW-2 AND MW-10 WERE NOT SAMPLED
DURING JUNE 2016 SAMPLING EVENT.

LEGEND

- 579 ——— GROUNDWATER ELEVATION CONTOUR (FEET, NAD83)
- - - - - GROUNDWATER ELEVATION CONTOUR INFERRED (FEET, NAD83)
- ← GROUNDWATER FLOW DIRECTION
- ⊕ MW-111 576.15 GROUNDWATER ELEVATION AT WELL MEASURED IN 06/16
- ~ CREEK FLOW DIRECTION

FIGURE 6



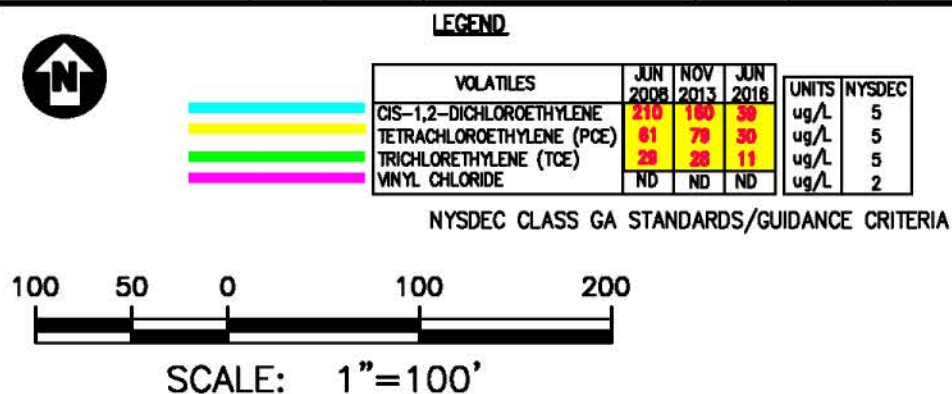
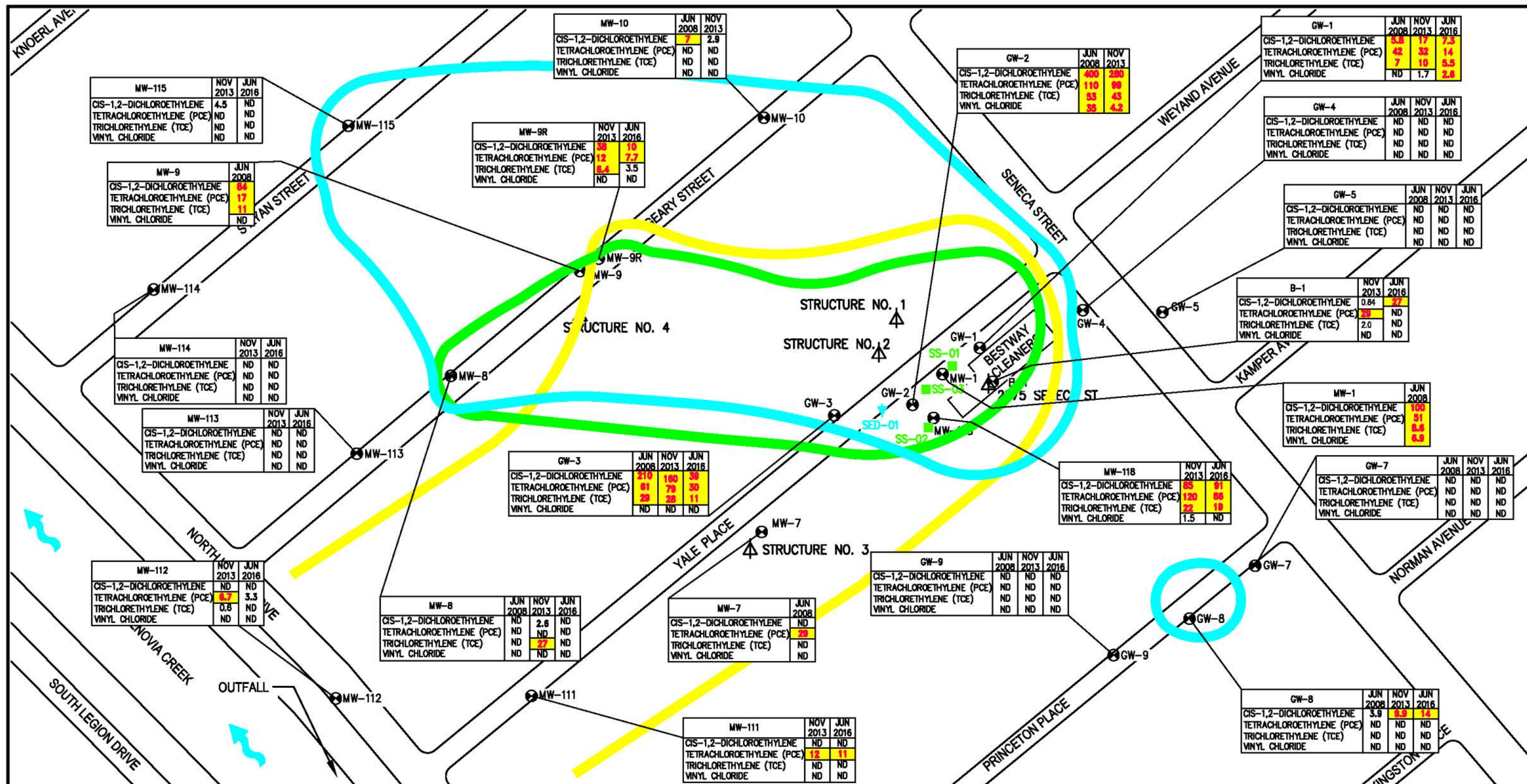
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

**WATER TABLE ELEVATIONS AND
FLOW DIRECTION MAP
JUNE 2016**

PARSONS

301 PLAINFIELD ROAD, SUITE 300, SYRACUSE, N.Y. 13212, PHONE: 315-451-9600



 SS-01	SOIL SAMPLE LOCATION
 SED-01	SEDIMENT SAMPLE LOCATION
ND	NOT DETECTED
 79	HIGHLIGHTED CONCENTRATION EXCEEDS NYSDC CLASS GA AMBIENT WATER QUALITY STANDARD/GUIDANCE CRITERIA
 2.6	BOLD NUMBERS – DETECTED CONCENTRATION
	CREEK FLOW DIRECTION

NOTE:

1. B-1, MW-9R, MW-10, MW-111, MW-112, MW-113, MW-114, MW-115, AND MW-118 WERE NOT SAMPLED DURING THE JUNE 2008 SAMPLING EVENT BECAUSE THEY WERE NOT INSTALLED YET.
2. GW-2 AND MW-10 WERE NOT SAMPLED DURING JUNE 2016 SAMPLING EVENT, DUE TO DAMAGE.
3. MW-1, MW-7, AND MW-9 WERE TEMPORARY AND INSTALLED DURING THE 2008 SITE CHARACTERIZATION REPORT. WELLS WERE ABANDONED AFTER SAMPLING. LOCATIONS SHOWN ARE APPROXIMATE FOR THESE WELLS.
4. WHERE DUPLICATE SAMPLES WERE COLLECTED, HIGHEST CONCENTRATION SHOWN.

FIGURE 7

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

**COMPOUND PLUMES MAP
NOVEMBER 2013**

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212. PHONE: 315-451-9560

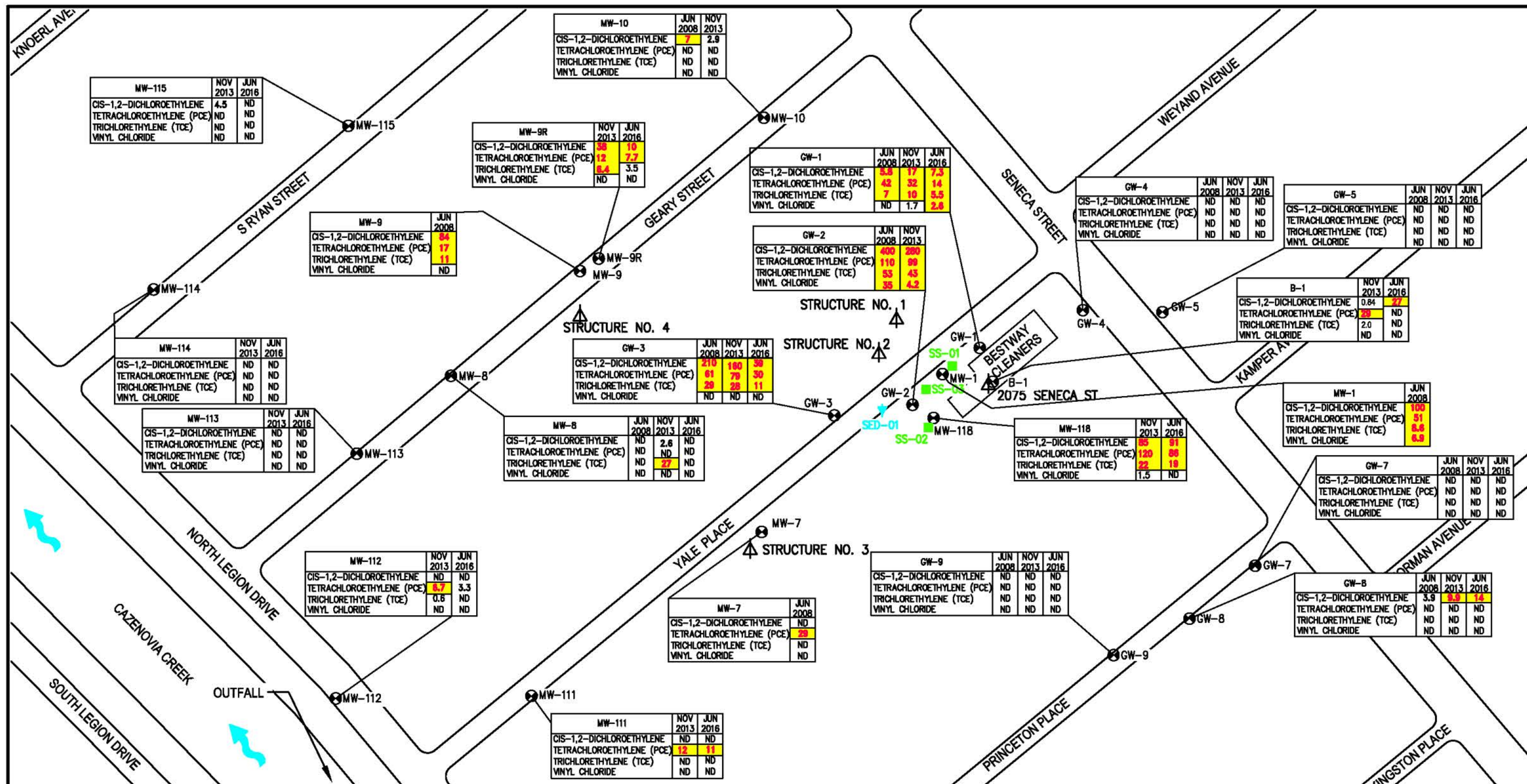


FIGURE 9



NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

SUMMARY OF CHLORINATED SOLVENT EXCEEDANCES IN GROUNDWATER

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-461-9580

NOTE:

1. B-1, MW-9R, MW-10, MW-111, MW-112, MW-113, MW-114, MW-115, AND MW-118 WERE NOT SAMPLED DURING THE JUNE 2008 SAMPLING EVENT BECAUSE THEY WERE NOT INSTALLED YET.
2. GW-2 AND MW-10 WERE NOT SAMPLED DURING JUNE 2016 SAMPLING EVENT, DUE TO DAMAGE.
3. MW-1, MW-7, AND MW-9 WERE TEMPORARY AND INSTALLED DURING THE 2008 SITE CHARACTERIZATION REPORT. WELLS WERE ABANDONED AFTER SAMPLING. LOCATIONS SHOWN ARE APPROXIMATE FOR THESE WELLS.
4. WHERE DUPLICATE SAMPLES WERE COLLECTED, HIGHEST CONCENTRATION SHOWN.

LEGEND

VOLATILES	JUN 2008	NOV 2013	JUN 2016	UNITS	NYSDEC
CIS-1,2-DICHLOROETHYLENE	210	100	59	ug/L	5
TETRACHLOROETHYLENE (PCE)	61	79	30	ug/L	5
TRICHLOROETHYLENE (TCE)	29	28	11	ug/L	5
VINYL CHLORIDE	ND	ND	ND	ug/L	2

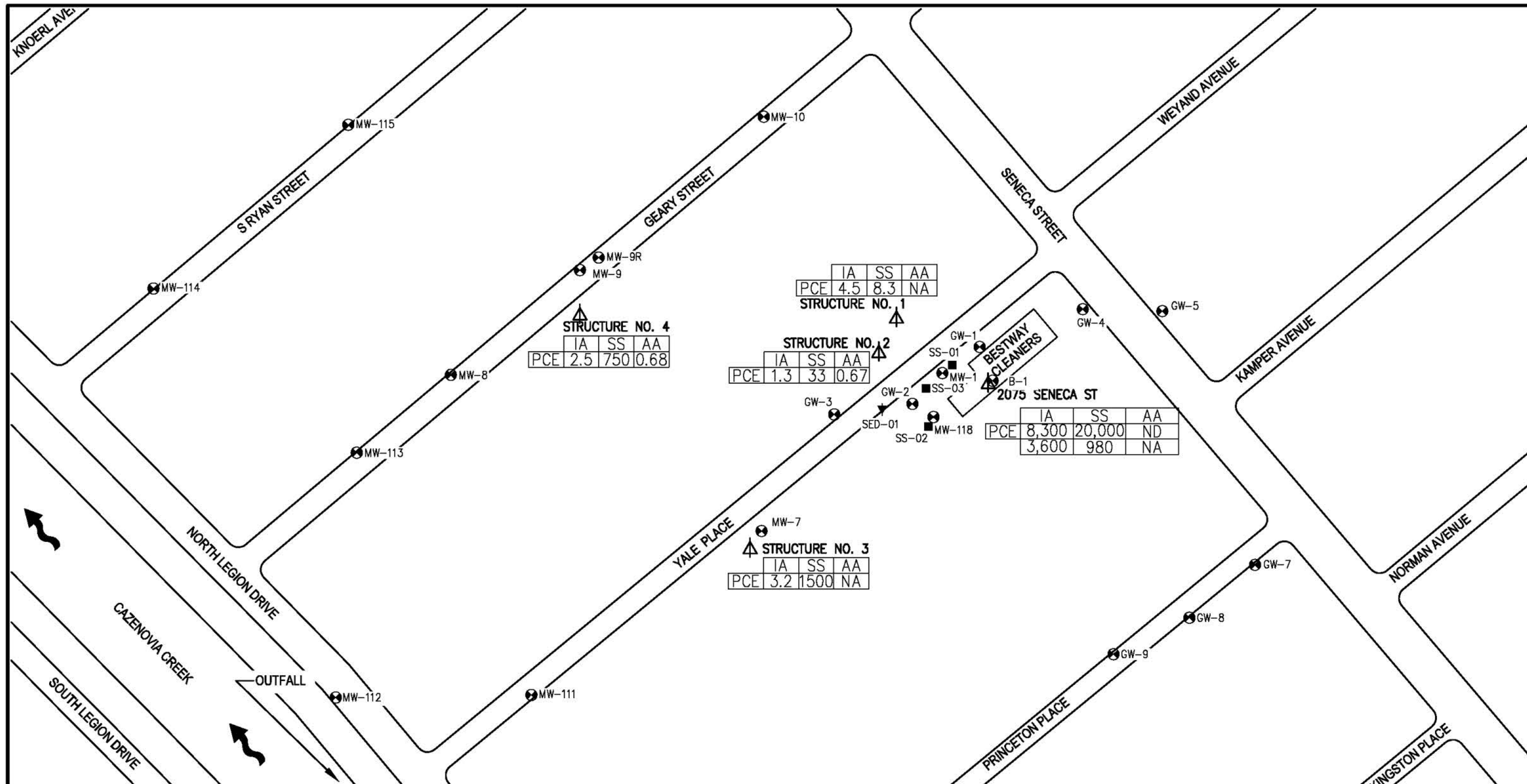
NYSDEC CLASS GA STANDARDS/GUIDANCE CRITERIA

- SS-01 SOIL SAMPLE LOCATION
- SED-01 SEDIMENT SAMPLE LOCATION
- ND NOT DETECTED
- 79 HIGHLIGHTED CONCENTRATION EXCEEDS NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARD/GUIDANCE CRITERIA
- 2.6 BOLD NUMBERS - DETECTED CONCENTRATION
- CREEK FLOW DIRECTION



100 50 0 100 200

SCALE: 1"=100'



SCALE: 1"=100'

LEGEND

- ⊗ MW-112 MONITORING WELL
- △ SOIL VAPOR SAMPLE LOCATION
- SS-01 SOIL SAMPLE LOCATION
- ▼ SED-01 SEDIMENT SAMPLE LOCATION

IA	SS	AA	- SAMPLE 1
PCE	3.2	1500	NA
			- SAMPLE 2

IA = INSIDE AIR SAMPLE $\mu\text{g}/\text{M}^3$

SS = SUB-SLAB SAMPLE $\mu\text{g}/\text{M}^3$

AA = AMBIENT AIR SAMPLE $\mu\text{g}/\text{M}^3$

NA = NOT ANALYZED

ND = NOT DETECTED

FIGURE 10



NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BESTWAY CLEANERS

2013 SOIL VAPOR RESULTS (TETRACHLOROETHYLENE/PCE)

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9580

APPENDIX A

SOIL BORING LOGS, MONITORING WELL LOGS, AND WELL DEVELOPMENT LOGS

Contractor: GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ Page 1 of 1 WELL NO. MW-9R	
						PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY		Location Description: Geary Street	
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 10 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 19 ft bls Additional Comments:						Date/Time Start: November 7, 2013 Date/Time Finish: November 7, 2013		Location Plan 	
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
								Drawing Not to Scale	
HC					0	0-0.5ft-Asphalt			
HC					1	0-.5-1.75ft-Sandy gravel subbase			
HC					2	1.75-2.5ft-Moist, brown, SILT and SAND, trace gravel, ash and cinders, fill			
HC					3	2.5-5ft- Brown, moist, CLAY and SILT			
HC					4				
SS	1-2-2-3	12"	0	SP	5	Moist, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					6				
SS	3-6-4-3	12"	0	SP	7	Moist, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					8				
SS	2-3-2-2	6"	0	SP	9	Moist, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					10				
SS	4-5-4-4	12"	0	SP	11	Wet, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					12				
SS	3-2-5-2	6"	0	SP	13	Wet, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					14				
SS	3-2-1-2	6"	0	SP/CL	15	0-12"-Wet, gray-brown, fine to medium grain SAND and GRAVEL. Till.			
					16	12-24" - Wet, gray, CLAY, plastic			
SS	3-2-3-3	18"	0		17	NA			
					18				
					19	End of Boring			
					20				
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: 			

Contractor: GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ WELL NO. MW-111 Page 1 of 1			
PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY						Location Description: Yale Place					
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 10 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 17 ft bls Additional Comments:						Date/Time Start: November 6, 2013 Date/Time Finish: November 6, 2013		Location Plan			
Sample Type SPT Recovery PID USCS Symbol Depth (ft bls)						FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC Drawing Not to Scale		COMMENTS	
HC					0	0-01 ft-Asphalt				Flush mount curb box. Grout (2-3 ft) Bentonite (3-5 ft bgs) 20/30 Sand Filter Pack #10 Slot Screen (7-17 ft bgs) 2 in ID PVC Well Total Depth 17 ft bgs	
HC				1	1-1.5 ft-Concrete						
HC				2	1.5-5 ft-Dry, gray-brown, CLAY and SAND, trace concrete, cobbles, cinders and coal. Fill						
HC				3							
HC				4							
SS	2-4-3-2	12"	0	CL	5	Dry, gray-brown, CLAY and SAND, trace concrete, cobbles, cinders and coal. Fill					
					6						
SS	1-1-1-1	12"	0	CL	7	Dry, gray-brown, CLAY and SAND, trace concrete, cobbles, cinders and coal. Fill					
					8						
SS	1-1-1-WH	18"	0	SM	9	0-6"-Dry, gray-brown, CLAY and SAND, trace concrete, cobbles, cinders and coal. Fill.					
					10	6-24"-Moist, soft, brown, mottled orange-gray, SILT and CLAY					
SS	WH-WH-WH-3	12"	0	SM	11	0-8"-Moist, soft, brown, mottled orange-gray, SILT and CLAY					
					12	8-24"-Wet, gray-brown, fine to medium SAND and SILT					
SS	6-7-11-10	12"	0	GM	13	Wet, brown-gray, GRAVEL and SAND. Till					
					14						
SS			0	CL	15	Wet, gray, CLAY and some silt, plastic.					
					16						
					17	End of Boring					
					18						
					19						
					20						
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: 					

Contractor GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ WELL NO. MW-112 Location Description: North Legion Drive	
GROUNDWATER OBSERVATIONS						PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY		Page 1 of 1 Location Plan	
Apparent Borehole DTW: 9 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 17 ft bls Additional Comments:						Date/Time Start: November 6, 2013 Date/Time Finish: November 6, 2013			
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
								Drawing Not to Scale	
HC					0	0-0.5ft-Asphalt			
					1	0.5-1.25ft-Concrete			
					2	1.25-5ft-Dry, brown-gray, CLAY and SILT, some sand, trace gravel, fill debris			
				3					
				4					
SS	1-2-2-4	12"	0	CL	5	Moist, gray-brown, CLAY and SILT, trace sand, plastic			
					6				
SS	4-3-2-2	18"	0	SM	7	0-6"-Moist, gray-brown, CLAY and SILT, trace sand, plastic			
					8	6-18"-Moist, dark brown-gray, SAND and SILT, some gravel, organic debris			
SS	1-1-1-1	6"	0	CL	9	Moist, gray-brown, CLAY and SILT, plastic			
					10				
SS	WH-3-3-2	12"	0	GM	11	0-6"-Moist, gray-brown, CLAY and SILT, plastic			
					12	6-24"-Wet, gray-brown, GRAVEL and CLAY, some silt, trace wood debris			
SS	4-7-3-2	18"	0	GM	13	0-3"-Wet, gray-brown, GRAVEL and CLAY, some silt, trace wood debris			
					14	3-24"-Wet, brown-gray, CLAY and SILT, plastic			
SS	1-1-1-1	24"	0	CL	15	Wet, brown-gray, CLAY and SILT, plastic			
					16				
					17	End of Boring			
					18				
					19				
					20				
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: 			

Contractor GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ WELL NO. MW-113 Location Description: Geary Street																																																																																																																																																																																																			
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 11 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 19 ft bls Additional Comments:						PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY		Date/Time Start: November 5, 2013 Date/Time Finish: November 5, 2013																																																																																																																																																																																																			
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Contractor: GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ Page 1 of 1 WELL NO. MW-114	
PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY						Location Description: South Ryan Street			
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 10.75 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 17 ft bls Additional Comments:						Date/Time Start: November 11, 2013 Date/Time Finish: November 11, 2013		Location Plan	
Sample Type SPT Recovery PID USCS Symbol Depth (ft bls)						FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC COMMENTS	
						Drawing Not to Scale			
HC					0	0-5ft-Moist, gray-brown, SAND and CLAY, some concrete, brick, sinders, slag debris.			
HC					1				
HC					2				
HC					3				
HC					4				
SS	2-2-2-1	0	0	SM	5	No Recovery			
					6				
SS	1-2-3-4	6"	0	SM	7	Moist, gray-brown, SAND and CLAY, some concrete, brick, sinders, slag debris.			
					8				
SS	2-2-1-2	6"	0	SM	9	Moist, gray-brown, SAND and SILT			
					10				
SS	4-3-3-4	18"	0	SM	11	0-18"-Wet, gray-brown, SAND and SILT			
					12	18-24"-Wet, gray, SAND, some gravel. Till			
SS	6-6-4-5	12"	0	SW	13	Wet, gray, SAND, some gravel. Till			
					14				
SS	8-4-2-2	6"	0	SW/CL	15	0-12"-Wet, gray, SAND, some gravel. Till			
					16	12-24"-Wet, gray, CLAY, plastic			
					17	End of Boring			
					18				
					19				
					20				
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: 			

Contractor: GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ Page 1 of 1 WELL NO. MW-115 Location Description: South Ryan Street		
GROUNDWATER OBSERVATIONS						PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY		Location Plan		
Apparent Borehole DTW:			11	ft bls	Date/Time Start: November 8, 2013 Date/Time Finish: November 8, 2013					
Measured Water Level:			NA	ft bls						
Total Depth of Boring:			19	ft bls						
Additional Comments:										
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS	
						Drawing Not to Scale				
HC					0	0-5ft-Dry, black grading to dark gray, Sand and Gravel, some silt, trace concrete ceramic chips, ash and cinders. Fill			Flush mount curb box	
					1					
					2					
					3					
					4					
SS	WH-1-2-3	18"	0	SM	5	Moist, brown, SILT and CLAY				Grout (2-5 ft bgs)
					6					
SS	4-4-3-4	18"	0	SM	7	Moist, brown, SILT and CLAY				Bentonite (5-7 ft bgs)
					8					
SS	WH-1-2-2	18"	0	SM	9	Moist, brown, SILT and CLAY				
					10					
SS	2-2-3-4	24"	0	SM	11	Moist, brown, mottled from 12-24", SILT and CLAY				20/30 Sand Filter Pack
					12					
SS	5-6-4-6	18"	0	SM	13	0-6"-Moist, brown, SILT and CLAY 6-24"- Wet, gray-brown, firm, SAND and SILT, some gravel. Till				
					14					
SS	2-3-4-3	0	0		15	No Recovery				
					16					
SS	2-3-2-1	18"	0	SM/CL	17	0-12"- Wet, gray-brown, firm, SAND and SILT, some gravel. Till. 12-24"- Wet, gray, Clay, plastic				
					18					
					19	End of Boring				
					20					
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS:				

Contractor: GeoLogic Driller: Scott Oversight: Bill Simons Rig Type: Drill Rig						PARSONS DRILLING RECORD		BORING/ Page 1 of 1 WELL NO. MW-118	
PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY						Location Description: Yale Place southwest of site building.			
GROUNDWATER OBSERVATIONS Apparent Borehole DTW: 10 ft bls Measured Water Level: NA ft bls Total Depth of Boring: 17 ft bls Additional Comments:						Date/Time Start: November 4, 2013 Date/Time Finish: November 4, 2013		Location Plan	
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC	COMMENTS
						Drawing Not to Scale			
HC					0	0-1 ft-Asphalt			Flush mount curb box Grout (2-3 ft bgs) Bentonite (3-5 ft bgs) 20/30 Sand Filter Pack #10 Slot Screen (7-17 ft bgs) 2 in ID PVC Well Total Depth 17 ft bgs
					1	1-5 ft- Moist, brown-gray, CLAY and SILT, some sand, trace gravel, roots			
					2				
					3				
					4				
SS	WH-WH-WH-3	18"	0	SM	5	Moist, brown-gray with gray mottling, SILT and CLAY, slightly plastic			
					6				
SS	4-6-7-5	12"	0.1	SM	7	0-12"-Moist, brown-gray with gray mottling, SILT and CLAY, slightly plastic			
					8	12-24"-Moist, gray-brown, SILT, trace sand and gravel grading to all sand and gravel, dark organic streaks. Till			
SS	4-6-6-7	12"	0.5	SM	9	Moist, gray-brown, SILT, trace sand and gravel, grading to all sand and gravel, dark organic streaks. Till			
					10				
SS	4-3-2-2	12"	0.8	SM	11	Moist, gray-brown, SILT, trace sand and gravel, grading to all sand and gravel, dark organic streaks. Till			
					12				
SS	2-4-4-5	6"	0.2	SM	13	Moist, gray-brown, SILT, trace sand and gravel, grading to all sand and gravel, dark organic streaks. Till			
					14				
SS	1-1-1-2	24"	0.1	CL	15	Wet, gray, CLAY, plastic			
					16				
					17	End of Boring			
					18				
					19				
					20				
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: 			

Contractor: GeoLogic Driller: Steve Laramie Oversight: Dan Chamberland Rig Type: Portable direct push						PARSONS DRILLING RECORD		BORING/ WELL NO. B-1 Page 1 of 1 Location Description: Bestway Building																																																																																																																																																																																																							
PROJECT NAME: NYSDEC Bestway Cleaners PROJECT Location: Buffalo, NY						Date/Time Start: October 19, 2015 Date/Time Finish: October 19, 2015		Location Plan 																																																																																																																																																																																																							
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Light brown, dry, loose.</td><td></td><td></td></tr> <tr><td>SS</td><td></td><td></td><td></td><td></td><td>5</td><td>5-7 ft: Fine to med sand with some fine gravel. Little silt. Brown to dark brown, dry med loose</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>0.5</td><td></td><td>6</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td></td><td></td><td>0.3</td><td></td><td>7</td><td>7-8.5 ft: Fine to med sand with some fine gravel. Little silt. Dark brown, Moist, med loose. 8.5-9 ft: Silt with little fine to med sand and little fine gravel. Dark brown, Moist, med soft.</td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>1.4</td><td></td><td>8</td><td></td><td></td><td></td></tr> <tr><td>SS</td><td></td><td></td><td></td><td></td><td>9</td><td>9-11 ft: Fine sand and silt with trace Fine gravel. Dark brown, wet, med soft. 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HC					3				HC			0.3		4	3.5-5 ft: Fine to coarse sand with some Fine to med gravel. Trace silt. Light brown, dry, loose.			SS					5	5-7 ft: Fine to med sand with some fine gravel. Little silt. Brown to dark brown, dry med loose						0.5		6				SS			0.3		7	7-8.5 ft: Fine to med sand with some fine gravel. Little silt. Dark brown, Moist, med loose. 8.5-9 ft: Silt with little fine to med sand and little fine gravel. Dark brown, Moist, med soft.						1.4		8				SS					9	9-11 ft: Fine sand and silt with trace Fine gravel. Dark brown, wet, med soft. Light petroleum odor.		20/30 Sand Filter Pack				24		10				SS					11	11-13 ft: Fine sand with silt and trace fine gravel. Coarse sand band 12.1 to 12.3 ft. Dark brown, med soft, wet.		#10 Slot Screen (7-17 ft bgs)				31		12				SS					13	13-15 ft: Fine sand with silt and trace fine gravel. Trace clay . wet, med stiff, grayish brown. 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SS					9	9-11 ft: Fine sand and silt with trace Fine gravel. Dark brown, wet, med soft. Light petroleum odor.		20/30 Sand Filter Pack																																																																																																																																																																																																							
			24		10																																																																																																																																																																																																										
SS					11	11-13 ft: Fine sand with silt and trace fine gravel. Coarse sand band 12.1 to 12.3 ft. Dark brown, med soft, wet.		#10 Slot Screen (7-17 ft bgs)																																																																																																																																																																																																							
			31		12																																																																																																																																																																																																										
SS					13	13-15 ft: Fine sand with silt and trace fine gravel. Trace clay . wet, med stiff, grayish brown. Strong petroleum odor and a sheen along the macro core liner.																																																																																																																																																																																																									
			267		14																																																																																																																																																																																																										
SS					15	15-17 ft: Fine sand and silt grading to Clayey silt. Wet, Med stiff, Grayish brown. Strong petroleum odor, sheen along macro core liner.		1 in ID PVC temporary well																																																																																																																																																																																																							
			113		16			Total Depth 17 ft bgs																																																																																																																																																																																																							
SS					17																																																																																																																																																																																																										
			67		18	17-19 ft: Clayey silt grading to Clay. Gray brown, Med stiff, wet.																																																																																																																																																																																																									
			3.5		19	19-20 ft: Clay. Gray-brown, Med stiff, wet																																																																																																																																																																																																									
					20																																																																																																																																																																																																										
SAMPLING METHOD HC = Hand Cleared (post hole) SS= Split Spoon MC=Macrocore						COMMENTS: Temporary well installed purged of three volumes and sampled.																																																																																																																																																																																																									

DEVELOPEMENT

WELL SAMPLING RECORD

Site Name: Bestway
 Samplers: SMW + EMP

Well ID: MW-118 Well Diameter: 2 inches
 Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

Method: "106/13e"

Date/Time: _____

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
<u>(16.9 - 9.0) x 0.16 = 1.3'</u>			
Casing Volumes (gal/ft.):			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	ms/cm	°C	g/L	mv	
1346			0	7.61	9.45	NA	0.620	16.92	0.397	85	Very turbid brown water
1350			1.0	7.14	0	NA	0.602	17.07	0.385	910	turbid
1355			2.0	7.03	0	986	0.572	17.26	0.366	79	
1400			3.0	7.06	0	416	0.560	17.26	0.359	68	Cloudy water
1405			3.5	7.12	0	174	0.554	17.26	0.355	63	
1410	9.1		4.0	7.20	0	79.4	0.551	17.26	0.363	57	
1415			4.75	7.35	0	43.8	0.549	17.27	0.351	49	
1420			5.5	7.27	0	35.8	0.549	17.27	0.351	54	Clear water
1425			6.0	7.23	0	48.5	0.547	17.28	0.350	56	
1430	9.1		7.0	7.21	0	32.4	0.547	17.28	0.350	59	
1435			7.75	7.21	0	31.1	0.547	17.3	0.350	59	

Sampling Data

Method: _____

Date/Time: _____

Total Volume of Water purged: _____

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond.(mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp.(°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (Field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (Field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (Field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (Field filtered)	NaOH/Zn Acetate	MS-4500-S2-F
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Census			
Hydrogen, Acetylene			

Comments: _____

LOW FLOW WELL SAMPLING RECORD

Site Name: Develop Well ID: MW-113 Well Diameter: 2 inches
 Samplers: SMW+ EMP Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
$(18.7 - 11.5) \times 0.16 = 1.15$			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Method: Peristaltic Date/Time: 11/06/13 @ 1240

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/l	NTU	mS/cm	°C	g/L	mv	
1243	11.5		0	7.69	0.0	NA	1.54	15.81	0.983	122	turbid, tan grey water
1250			1.0	7.11	0	651	1.52	16.58	0.971	104	light grey/cloudy water
1255			1.75	7.09	0	402	1.51	16.71	0.968	84	
1300			2.25	7.08	0	149	1.50	16.88	0.961	51	no odor (*)
1305	11.6		2.50	7.0	0	118	1.5	17.0	0.957	45	
1310			3.25	7.02	0	44	1.49	17.18	0.951	38	clear water
1315			3.75	7.05	0	33.7	1.48	17.24	0.946	34	
1320	11.6		4.25	7.06	0	20.9	1.48	17.27	0.945	32	
1325			5.0	7.06	0	14.5	1.48	17.29	0.945	31	

Sampling Data

Method: _____ Date/Time: _____ Total Volume of Water purged: _____

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond. (mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp. (°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLING			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (field filtered)	NaOH/Zn Acetate	MS-4500-S2+
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Count			
Hydrogen, Acetylene			

Comments: * pump battery charged died - had to switch to different source

DEVELOPMENT

LOW FLOW WELL SAMPLING RECORD

Site Name: Bestway
 Samplers: SMW + EMP

Well ID: MW-112 Well Diameter: 2 inches
 Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

WATER VOLUME CALCULATION			
- (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
(17.0 - 10.7) x 0.16 = 1.0			
Casing Volume (gal/ft):			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Method: Geopump

Date/Time: 11/07/13

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	g/L	mv	
1240	10.7		0	6.77	11.62	NA	5.02	14.83	3.17	211	Very turbid
1245			1.0	6.86	5.49	NA	5.37	15.66	3.37	169	*Surged well
1250	10.3		2.0	7.05	0	858	4.76	16.65	3.08	110	
1255			3.0	7.06	0	348	3.45	16.75	2.23	109	
1300			3.5	7.03	0	152	2.74	16.72	1.77	110	
1305	10.0		4.0	7.01	0	88.2	2.43	16.70	1.56	111	*Surged well
1310			5.0	6.96	0	82.6	2.16	16.58	1.38	105	
1315	10.0		6.0	6.97	0	114	1.93	16.65	1.24	106	
1320			6.5	6.97	0	104	1.91	16.63	1.22	106	
1325	10.0		7.0	6.96	0	68.8	1.83	16.57	1.17	108	
1330			7.5	6.95	0	43.6	1.78	16.58	1.14	109	
1335	10.0		8.0	6.95	0	28.4	1.76	16.59	1.13	110	Clear water
1340			9.5	6.94	0	22.3	1.72	16.55	1.10	110	
1345	10.10		10.5	6.93	0	16.6	1.70	16.54	1.09	111	
1350			12.0	6.94	0	14.8	1.68	16.52	1.08	110	

Sampling Data

Field Parameters

Method:

Date/Time:

Total Volume of Water purged:

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond. (mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp. (°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (Field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (Field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (Field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (Field filtered)	NaOH/Zn Acetate	MS-4500-S2-F
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Census			
Hydrogen, Acetylene			

Comments: Small Splotchy sheen on top of water.

Development

Well Diameter: 6 Inches

~~Monitored Natural Attenuation Sample Set (M/N)?~~

Casing Volumes (gal/ft.)

4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4
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~~LOW FLOW WELL SAMPLING RECORD~~

Site Name: Bestway Cleaners

Well ID: MW-111

Well Diameter: 8 Inches

Samplers:

Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

Method:

Date/Time:

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Casing Volumes (gal/ft):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

[illegible]

Sampling Data

Method:

Date/Time:

Total Volume of Water purged:

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond.(mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp.(°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		*NOTE* HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (Field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (Field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (Field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (Field filtered)	NaOH/Zn Acetate	MS-4500-S2-F
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Census			
Hydrogen, Acetylene			

Comments: _____

Development

~~Monitored Natural Attenuation Sample Set (M/N)?~~

Casing Volumes (gal/ft.)

DEVELOPEMENT

LOW FLOW WELL SAMPLING RECORD

Site Name: Bestway
 Samplers: SMW + EMP

Well ID: MW-112 Well Diameter: 2 inches
 Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

WATER VOLUME CALCULATION			
- (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
(17.0 - 10.7) x 0.16 = 1.0			
Casing Volume (gal/ft):			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Method: Geopump

Date/Time: 11/07/13

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	g/L	mv	
1240	10.7		0	6.77	11.62	NA	5.02	14.83	3.17	211	Very turbid
1245			1.0	6.86	5.49	NA	5.37	15.66	3.37	169	*Surged well
1250	10.3		2.0	7.05	0	858	4.76	16.65	3.08	110	
1255			3.0	7.06	0	348	3.45	16.75	2.23	109	
1300			3.5	7.03	0	152	2.74	16.72	1.77	110	
1305	10.0		4.0	7.01	0	88.2	2.43	16.70	1.56	111	*Surged well
1310			5.0	6.96	0	82.6	2.16	16.58	1.38	105	
1315	10.0		6.0	6.97	0	114	1.93	16.65	1.24	106	
1320			6.5	6.97	0	104	1.91	16.63	1.22	106	
1325	10.0		7.0	6.96	0	68.8	1.83	16.57	1.17	108	
1330			7.5	6.95	0	43.6	1.78	16.58	1.14	109	
1335	10.0		8.0	6.95	0	28.4	1.76	16.59	1.13	110	Clear water
1340			9.5	6.94	0	22.3	1.72	16.55	1.10	110	
1345	10.10		10.5	6.93	0	16.6	1.70	16.54	1.09	111	
1350			12.0	6.94	0	14.8	1.68	16.52	1.08	110	

Sampling Data

Field Parameters

Method:

Date/Time:

Total Volume of Water purged:

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond. (mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp. (°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (Field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (Field filtered)	HNO3	SW6108
Ortho-Phosphate	1-250mL plastic (Field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (Field filtered)	NaOH/Zn Acetate	MS-4500-S2-F
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Census			
Hydrogen, Acetylene			

Comments: Small Splotchy sheen on top of water.

LOW FLOW WELL SAMPLING RECORD

Site Name: Develop Well ID: MW-113 Well Diameter: 2 inches
 Samplers: SMW+ EMP Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
$(18.7 - 11.5) \times 0.16 = 1.15$			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Method: Peristaltic Date/Time: 11/06/13 @ 1240

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/l	NTU	mS/cm	°C	g/L	mv	
1243	11.5		0	7.69	0.0	NA	1.54	15.81	0.983	122	turbid, tan grey water
1250			1.0	7.11	0	651	1.52	16.58	0.971	104	light grey/cloudy water
1255			1.75	7.09	0	402	1.51	16.71	0.968	84	
1300			2.25	7.08	0	149	1.50	16.88	0.961	51	no odor (*)
1305	11.6		2.50	7.0	0	118	1.5	17.0	0.957	45	
1310			3.25	7.02	0	44	1.49	17.18	0.951	38	clear water
1315			3.75	7.05	0	33.7	1.48	17.24	0.946	34	
1320	11.6		4.25	7.06	0	20.9	1.48	17.27	0.945	32	
1325			5.0	7.06	0	14.5	1.48	17.29	0.945	31	

Sampling Data

Method: _____ Date/Time: _____ Total Volume of Water purged: _____

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond. (mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp. (°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLING			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (field filtered)	NaOH/Zn Acetate	MS-4500-S2+
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Count			
Hydrogen, Acetylene			

Comments: * pump battery charged died - had to switch to different source

DEVELOPEMENT

WELL SAMPLING RECORD

Site Name: Bestway
 Samplers: SMW + EMP

Well ID: MW-118 Well Diameter: 2 inches
 Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

Method: 11/06/13 @

Date/Time: _____

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
<u>(16.9 - 9.0) x 0.16 = 1.3'</u>			
Casing Volumes (gal/ft.):			
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	ms/cm	°C	g/L	mv	
1346			0	7.61	9.45	NA	0.620	16.92	0.397	85	Very turbid brown water
1350			1.0	7.14	0	NA	0.602	17.07	0.385	910	turbid
1355			2.0	7.03	0	986	0.572	17.26	0.366	79	
1400			3.0	7.06	0	416	0.560	17.26	0.359	68	Cloudy water
1405			3.5	7.12	0	174	0.554	17.26	0.355	63	
1410	9.1		4.0	7.20	0	79.4	0.551	17.26	0.363	57	
1415			4.75	7.35	0	43.8	0.549	17.27	0.361	49	
1420			5.5	7.27	0	35.8	0.549	17.27	0.361	54	Clear water
1425			6.0	7.23	0	48.5	0.547	17.28	0.360	56	
1430	9.1		7.0	7.21	0	32.4	0.547	17.28	0.350	59	
1435			7.75	7.21	0	31.1	0.547	17.3	0.350	59	

Sampling Data

Method: _____

Date/Time: _____

Total Volume of Water purged: _____

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	
Spec. Cond.(mS/cm)		Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)		Manganese (mg/L)	
Temp.(°C)		Hydrogen Sulfide (mg/L)	
ORP (mv)		* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Select VOCs	3-40mL glass vial	HCl	EPA 8260
MEE	2-40mL glass vial	HCl	Lab SOP
Chloride / Nitrate / Sulfate	2-40mL glass vial (Field filtered)	None	lab specified
Dissolved Inorganics	1-250mL plastic (Field filtered)	HNO3	SW6010B
Ortho-Phosphate	1-250mL plastic (Field filtered)	None	EPA 365.1
Sulfide	1-250mL glass (Field filtered)	NaOH/Zn Acetate	MS-4500-S2-F
Total Organic Carbon	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	1-120 mL glass amber	None	SW9060
Microbial Census			
Hydrogen, Acetylene			

Comments: _____

APPENDIX B

GROUNDWATER SAMPLING LOGS

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/15/13 @1135
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: GW-1
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 8.37
Depth to Well Bottom (Ft.): 18
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 9.63 x 0.16 = 1.55 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature: 16.97 Turbidity: 7.3
pH: 6.12 Dissolved O2: 0
Conductivity: 3.86 ORP: 27

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/15/13 1135
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PARSONS

7/23/2014

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/14/13 @1325
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: GW-2
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 8.36
Depth to Well Bottom (Ft.): 20.5
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 12.14 x 0.16 = 1.95 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 6 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature: 16.25 Turbidity: 0
pH: 6.92 Dissolved O2: 0
Conductivity: 2.75 ORP: 2

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/14/13 1325
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Duplicate sample GW-102-111413 collected at 1705 and
MS/MSD collected GW-2-111413.

Page 2 of 2

of

7/23/2014

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/18/13 @1515
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: GW-3
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 8.62
Depth to Well Bottom (Ft.): 14.5
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 5.88 x 0.16 = 0.95 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 3.6 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 15.72 Turbidity: 0
pH: 6.11 Dissolved O2: 0
Conductivity: 3.67 ORP: 146

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/18/13 1515
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS

Page 2 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS

PROJECT NUMBER: 448324

WELL NUMBER: GW-3

WEATHER:

DATE: 11/18/2013

TIME: 15:15

DEVELOPER: Bill Simons

of

PARSONS

of

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/18/13 @1425
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: GW-4
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 7.62
Depth to Well Bottom (Ft.): 23
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 15.38 x 0.16 = 2.47 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2.3 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other: pumped dry

FIELD TESTS

Temperature: 14.63 Turbidity: 0.0
pH: 6.70 Dissolved O2: 0.00
Conductivity: 4.90 ORP: -1

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/18/13 1425
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS Well allowed to recover before sampling.

Page 2 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS

PROJECT NUMBER: 448324

WELL NUMBER: GW-4

WEATHER:

DATE: 11/18/2013

TIME: 14:25

DEVELOPER: Bill Simons

of

PARSONS

of

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/12/13 @1550
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: GW-5
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 6.6
Depth to Well Bottom (Ft.): 24
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 17.4 x 0.16 = 2.78 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 3 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other: pumped dry

FIELD TESTS

Temperature: 11.99 Turbidity: 166
pH: 6.78 Dissolved O2: 0
Conductivity: 0.867 ORP: 50

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/12/13 1550
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/14/13 @1525
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: GW-7
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 7.63
Depth to Well Bottom (Ft.): 23.5
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 15.87 x 0.16 = 2.54 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.8 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other: pumped dry

FIELD TESTS

Temperature: 11.75 Turbidity: 0.4
pH: 7.28 Dissolved O2: 0.0
Conductivity: 3.12 ORP: 28

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/14/13 1525
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS Pumped dry. Let recover before sampling.

Page 2 of 2

of

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/12/13 @1210
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: GW-8
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 7.63
Depth to Well Bottom (Ft.): 23.5
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
1.5-inch Casing: Ft. of Water in Well 15.87 x 0.092 = 1.46 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2.8 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other: pumped dry

FIELD TESTS

Temperature: 13.8 Turbidity: 6.4
pH: 6.69 Dissolved O2: 0.0
Conductivity: 0.936 ORP: 22

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/12/13 1210
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PROJECT NUMBER: 448324

WEATHER:

TIME: 12:10

PARSONS

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/12/13 @0955
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: GW-9
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 7.57
Depth to Well Bottom (Ft.): 23.5
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
1.5-inch Casing: Ft. of Water in Well 15.93 x 0.092 = 1.47 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 14.06 Turbidity: 0.1
pH: 6.93 Dissolved O2: 0.0
Conductivity: 3.12 ORP: -78

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/12/13 0955
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

of

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/5/13 @1300
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: MW-8
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 9.8
Depth to Well Bottom (Ft.): 13.3
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
1-inch Casing: Ft. of Water in Well 3.5 x 0.041 = 0.15 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 3.5 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 17.33 Turbidity: NA
pH: 7.23 Dissolved O2: 0.0
Conductivity: 1.44 ORP: -97

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/5/13 1300
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PROJECT NUMBER: 448324

WEATHER:

DATE: 11/5/2013

TIME: 13:00

DEVELOPER: Ellen Paccia of
of

PARSONS

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/14/13 @1020
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: MW-9R
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 8.84
Depth to Well Bottom (Ft.): 17
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 8.16 x 0.16 = 1.31 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4.8 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 14.33 Turbidity: 7
pH: 6.76 Dissolved O2: 0.0
Conductivity: 3.16 ORP: 194

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/14/13 1020
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

of

7/23/2014

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/6/13 @0855
Weather: NA
Samplers: Sara Weishaupt of PARSONS
Ellen Paccia of PARSONS
SAMPLE ID: MW-10
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 9.2
Depth to Well Bottom (Ft.): 14.4
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
1-inch Casing: Ft. of Water in Well 5.2 x 0.041 = 0.2 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 15.58 Turbidity: 4.3
pH: 7.16 Dissolved O2: 0.0
Conductivity: 1.07 ORP: -2

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/14/13 1020
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PARSONS

PARSONS

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/18/13 @1620
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: MW-111
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 11.06
Depth to Well Bottom (Ft.): 17
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 5.94 x 0.16 = 0.96 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 13.21 Turbidity: 0.0
pH: 6.08 Dissolved O2: 0.0
Conductivity: 4.09 ORP: 192

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/18/13 1620
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/13/13 @1140
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: MW-112
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 10.48
Depth to Well Bottom (Ft.): 17
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 6.52 x 0.16 = 1.05 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 5.5 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 16.22 Turbidity: 0
pH: 7.04 Dissolved O2: 0
Conductivity: 2.4 ORP: 112

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/13/2013 1240
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/13/13 @1615
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: MW-113
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 11.54
Depth to Well Bottom (Ft.): 19
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 7.46 x 0.16 = 1.2 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4.4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 15.22 Turbidity: 0.0
pH: 7.03 Dissolved O2: 0.0
Conductivity: 1.5 ORP: 53

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/13/2013 1615
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/13/13 @1505
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: MW-114
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 11.32
Depth to Well Bottom (Ft.): 19
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 7.68 x 0.16 = 1.23 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 12.55 Turbidity: 0.0
pH: 7.07 Dissolved O2: 0.0
Conductivity: 0.974 ORP: 97

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/13/2013 1505
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

of

7/23/2014

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/13/13 @1000
Weather: NA
Samplers: Ellen Paccia of PARSONS
of
SAMPLE ID: MW-115
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 10.65
Depth to Well Bottom (Ft.): 17
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 6.35 x 0.16 = 1.02 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 5 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 14.05 Turbidity: 8.8
pH: 6.93 Dissolved O2: 0.0
Conductivity: 1.21 ORP: 140

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/13/2013 1000
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 11/15/13 @1100
Weather: NA
Samplers: Bill Simons of PARSONS
of
SAMPLE ID: MW-118
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 9.16
Depth to Well Bottom (Ft.): 19
CALCULATIONS:
Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 9.84 x 0.16 = 1.57 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 5.4 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor: _____
Other: _____

FIELD TESTS

Temperature: 16.39 Turbidity: 0.0
pH: 6.03 Dissolved O2: 0.0
Conductivity: 1.52 ORP: 115

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/15/2013 1100
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Page 2 of 2

of

[illegible]

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC BESTWAY CLEANERS
PROJECT NUMBER: 448324
Sampling Date/Time: 10/20/15 11:20
Weather: NA
Samplers: Dan Chamberland of PARSONS
 of
SAMPLE ID: B-1_2015-10-20
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 8.53
 Depth to Well Bottom (Ft.): 17
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
 2-inch Casing: Ft. of Water in Well 0 x 0.16 = 0 Gallons
 3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
 24inch Casing: Ft. of Water in Well x 0.64 = Gallons
 Volume Purged: 4 gal
 Method: Low Flow

SAMPLE DESCRIPTION

Odor:
 Other: clear

FIELD TESTS

Temperature: NA Turbidity: NA
 pH: NA Dissolved O2: NA
 Conductivity: NA ORP: NA

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOCs
 QA/QC Sample ID
 Analyze QA/QC Samples For:
 Date/Time Refrigerated: 11:25:00 AM
 Chain of Custody No.:
 Shipped Via: self
 Laboratory: Test America

COMMENTS / MISCELLANEOUS

NA - insufficient volume for flow through cell.

Site Name: BETAWAY CLEANS
Samplers: R. Ponce

Well ID: GW-3

Well Diameter: 1.5 Inches

Samplers: H. Prince

Monitored Natural Attenuation Sample Set (Y/N)? N

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
DTW = 8.81 Casing Volumes (gal/ft.): TD: 14.10				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Flow

Date/Time: 6/20/16 1505

[illegible]

Method: Low Flow

Date/Time: 1/20/16 1535

Total Volume of Water purged: 1.1

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.12	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	0.618	Carbon Dioxide (mg/L)	
Turbidity (NTU)	1.32	Ferrous Iron (mg/L)	
DO (mg/L)	2.12	Manganese (mg/L)	
Temp.(°C)	17.0	Hydrogen Sulfide (mg/L)	
ORP (mv)	192	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)	NA		

[illegible]

Comments: DUPLICATE COLLECTED (6W-30-2016-06-20) @ 120.

Site Name: Bestway Cleaners
 Samplers: Caryn James

Well ID: GW-4-2016-06-24 Well Diameter: 1.5 Inches

Samplers: Carm James

Monitored Natural Attenuation Sample Set (Y/N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
7.04 Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low flow/peristaltic Date/Time: 6/21/16/0857

[illegible]

Method: low flow

Date/Time: 6/22/16 0815 Total Volume of Water purged: ~1.1 gal

HORRIBA		HACH TEST KITS	
pH	6.40	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	1.08	Carbon Dioxide (mg/L)	
Turbidity (NTU)	64.8	Ferrous Iron (mg/L)	
DO (mg/L)	3.24	Manganese (mg/L)	
Temp.(°C)	16.84	Hydrogen Sulfide (mg/L)	
ORP (mv)	13	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments:

Water level @ 11.62 @ 0810 AM on 6/22/16

Site Name: Beguny Cienega
Samplers: RP

Well ID: GW-5

Well Diameter: 1.5 Inches

Monitored Natural Attenuation Sample Set (Y/N)? N

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
DTW = 7.75 Casing Volumes (gal/ft.): DTB = 23.44				
1-inch=0.04	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Con fla

Date/Time: 6/21/16 850

[illegible]

Method: low flow

Date/Time: 6/21/16 940

Total Volume of Water purged: 1.3 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.63	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	0.956	Carbon Dioxide (mg/L)	
Turbidity (NTU)	7.49	Ferrous Iron (mg/L)	
DO (mg/L)	0.30	Manganese (mg/L)	
Temp.(°C)	18.21	Hydrogen Sulfide (mg/L)	
ORP (mv)	10	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)	-		

[illegible]

Comments: _____

Site Name: Bestway Cleaners
 Samplers: Caryn James
 Burning Date: _____

Well ID: GW7-2016-06-22 Well Diameter: 1.5 Inches

Samplers: Garin James

Monitored Natural Attenuation Sample Set (Y(N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
8.34 Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low flow peristaltic Date/Time: 6/22/16 0925

[illegible]

Method: low flow peristaltic Date/Time: 6/22/16 | 1000

Total Volume of Water purged: 20.80

HORRIBA		HACH TEST KITS	
pH	6.09	Alkalinity (g/g)	/
Spec. Cond.(mS/cm)	0.645	Carbon Dioxide (mg/L)	
Turbidity (NTU)	1.12	Ferrous Iron (mg/L)	
DO (mg/L)	4.39	Manganese (mg/L)	
Temp.(°C)	18.30	Hydrogen Sulfide (mg/L)	
ORP (mv)	122	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments: _____

Site Name: Postway Cleaners
 Samplers: Caryn James

Well ID: G41-8-2016-06-22 Well Diameter: 1.5 Inches

Monitored Natural Attenuation Sample Set (Y/N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
21.73		8.52		
Casing Volumes (gal/ft):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: low flow peristaltic Date/Time: 6/22/16 1030

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	TDS	ORP	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	g/L	mv	
1030	—	—	Begin Purging								
1035	8.85	100	0.13	6.49	1.82	out of range	1.88	17.33		-154	Dark gray/
1040	9.36	100	0.16	6.77	1.82	out of range	2.43	18.36		-145	black color
1045	9.87	100	0.39	6.74	1.82	out of range	2.37	18.12		-136	to water
1050	9.95	100	0.52	6.57	1.97	out of range	1.79	17.49		-112	
1055	10.02	100	0.65	6.41	2.03	out of range	1.20	17.44		-90	
1100	10.13	100	0.78	6.21	2.02	out of range	1.07	17.16		-78	Water clearing
1105	10.14	100	0.91	6.03	2.06	10	0.764	17.18		-54	up
1110	10.14	100	1.04	5.95	1.93	53.6	0.731	17.63		-49	
1115	10.14	100	1.17	5.93	1.99	52.1	0.734	17.65		-45	
1120	10.14	100	1.30	5.94	1.96	53.1	0.736	17.46		-48	

Method: Low-flow peristaltic Date/Time: 6/22/16 11:25

Total Volume of Water purged: ~ 1.5

HORRIBA		HACH TEST KITS	
pH	5.94	Alkalinity (g/g)	
Spec. Cond. (mS/cm)	0.736	Carbon Dioxide (mg/L)	
Turbidity (NTU)	53.1	Ferrous Iron (mg/L)	
DO (mg/L)	1.96	Manganese (mg/L)	
Temp. (°C)	17.46	Hydrogen Sulfide (mg/L)	
ORP (mv)	-48	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET

[illegible]

Comments: _____

Site Name: BESTMAN CREEK
 Samplers: ND

Well ID: GW-9

Well Diameter: 1.5 Inches

Monitored Natural Attenuation Sample Set (Y/N)? _____

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
DW-8-55 Casing Volumes (gal/ft.): $9.2 = 18.21$				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method

Date/Time:

[illegible]

Method:

Date/Time:

Total Volume of Water purged: 21.1 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.57	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	3.20	Carbon Dioxide (mg/L)	
Turbidity (NTU)	1.83	Ferrous Iron (mg/L)	
DO (mg/L)	1.00	Manganese (mg/L)	
Temp.(°C)	18.24	Hydrogen Sulfide (mg/L)	
ORP (mv)	-94	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments:

Site Name: Bestway Cleaners
 Samplers: Caryn James

Well ID: mw-8-2016-06-21 Well Diameter: 1 Inches

Samplers: Caryn James

Monitored Natural Attenuation Sample Set (Y/N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
13.22		9.75		
Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-Inch=2.5	10-Inch=4	

Method: Low flow peristaltic Date/Time: 6/21/16 1220

[illegible]

Method: Low flow peristaltic Date/Time: 1/21/16 1310

Total Volume of Water purged: 21.17

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.48	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	1.70	Carbon Dioxide (mg/L)	
Turbidity (NTU)	25.3	Ferrous Iron (mg/L)	
DO (mg/L)	1.28	Manganese (mg/L)	
Temp.(°C)	15.77	Hydrogen Sulfide (mg/L)	
ORP (mv)	-142	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments: Water level probe would not fit in well with tubing in it.

Site Name: Besman Canyon
Samplers: RP

Well ID: MW-9R

Well Diameter: 2 Inches

Monitored Natural Attenuation Sample Set (Y/N)? N

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
DTW = 8.56		Casing Volumes (gal/ft): TD = 16.52	
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Method: Car Plan

Date/Time: 4/21/16 1193

Sampling Data

Method: *Case Study*

Date/Time: 6/21/16 1235

Total Volume of Water purged: ~ 1.75 gal

Field Parameters

[illegible]

Comments: _____

Site Name: Best man Cleaning
 Samplers: AP

Well ID: MW-111

Well Diameter: 2 Inches

Samplers *AL*

Monitored Natural Attenuation Sample Set (Y/N)? N

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
DTW = 4.50		Casing Volumes (gal/ft.): DTB = 16.55		
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Van Klee

Date/Time: 6/21/16 1455

[illegible]

Method: Law of Mass

Date/Time: 6/24/16 1530

Total Volume of Water purged: ~ 7.5 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.69	Alkalinity (g/g)	
Spec. Cond. (mS/cm)	0.909	Carbon Dioxide (mg/L)	
Turbidity (NTU)	2.91	Ferrous Iron (mg/L)	
DO (mg/L)	0.74	Manganese (mg/L)	
Temp. (°C)	18.18	Hydrogen Sulfide (mg/L)	
ORP (mv)	161	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments: _____

Site Name: BETHANY CLEMENS
Samplers: RP

Well Diameter: 2 Inches

Monitored Natural Attenuation Sample Set (Y/N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
DTW = 10.71		Casing Volumes (gal/ft.): TD = 16.58		
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method

Date/Time:

[illegible]

Method:

Date/Time:

Total Volume of Water purged:

Field Parameters

HORRIBA		HACH TEST KITS	
pH	6.77	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	4.83	Carbon Dioxide (mg/L)	
Turbidity (NTU)	4.35	Ferrous Iron (mg/L)	
DO (mg/L)	0.03	Manganese (mg/L)	
Temp.(°C)	18.23	Hydrogen Sulfide (mg/L)	
ORP (mv)	-37	* NOTE : HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments

Site Name: Bestway Cleaners
 Samplers: Caryn James

Monitored Natural Attenuation Sample Set (YIN)

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
16.62 10.66 Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low-flow, peristaltic Date/Time: 6/21/16/1020

[illegible]

Method: Low Flow, peristaltic Date/Time: 6/21/16 1100

Total Volume of Water purged: 20.91 gal

HORRIBA		HACH TEST KITS	
pH	6.59	Alkalinity (g/g)	/
Spec. Cond.(mS/cm)	0.298	Carbon Dioxide (mg/L)	
Turbidity (NTU)	6.71	Ferrous Iron (mg/L)	
DO (mg/L)	2.26	Manganese (mg/L)	
Temp.(°C)	16.96	Hydrogen Sulfide (mg/L)	
ORP (mv)	80	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

[illegible]

Comments: _____

Site Name: Bestway Cleaners
 Samplers: Cory Jones
 Purging Date: _____

Well ID: MW-118 2016-05-21 Well Diameter: 2 Inches

Samplers: Canon T400s

Monitored Natural Attenuation Sample Set (Y/N)?

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
16.87 9.57				
Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low flow peristaltic Date/Time: 6/21/16

[illegible]

Method: low flow peristaltic Date/Time: 6/21/16 1530

Total Volume of Water purged: 2 gal

HORRIBA		HACH TEST KITS	
pH	6.18	Alkalinity (g/g)	
Spec. Cond.(mS/cm)	1.05	Carbon Dioxide (mg/L)	
Turbidity (NTU)	0.83	Ferrous Iron (mg/L)	
DO (mg/L)	6.95	Manganese (mg/L)	
Temp.(°C)	18.02	Hydrogen Sulfide (mg/L)	
ORP (mv)	107	* NOTE * HACH test kits are only required for MNA analysis wells.	
TDS (g/L)			

SAMPLE SET

[illegible]

Comments: _____

APPENDIX C

INVESTIGATION PHOTOGRAPHS

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 06/18/13

Description: View of the Bestway Cleaners Store Front. Photo taken facing southwest from Seneca Street.



Status as of: 6/18/13

Description: View of Bestway Cleaners side entrance. Photo taken facing south from Yale Place.

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 6/18/13

Description: View of Yale Place facing southwest. Bestway Cleaners is just out of the photo to the left.



Status as of: 10/30/13

Description: View of the outfall that empties into Cazenovia Creek. Photo taken facing northeast from South Legion Drive.

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 10/30/13

Description: Proposed location MW-111 on Yale Place.



Status as of: 10/30/13

Description: Proposed location MW-112 on North Legion Drive. Cazenovia Creek is immediately to the left.

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 10/30/13

Description: Proposed location MW-118 on Yale Place located in the parking lot area behind Bestway Cleaners.



Status as of: 10/30/13

Description: Proposed location MW-114 located on South Ryan Street.

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 10/30/13

Description: Proposed location MW-113 on Geary Street. Looking towards North Legion Drive.



Status as of: 10/30/13

Description: Proposed location MW-115 (yellow flag) located on South Ryan Street.

**PHOTOGRAPHIC LOG
PARSONS**

PROJECT: Bestway Cleaners
PROJECT #: 448324

LOCATION: Buffalo, New York
CLIENT: NYSDEC



Status as of: 10/30/13

Description: Back of the Bestway Cleaners Building. Location MY-118 is marked just off of the pavement near the grass.



Status as of: 11/19/2015

Description: Surface completion of the boring inside the Bestway Cleaners building.

PARSONS



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
2. The subsurface utilities shown hereon are of Quality Level "B" as defined by the American Society of Civil Engineers (ASCE) in the "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." The subsurface utilities shown hereon were designated utilizing geophysical methods. The surveyor makes no guarantee that the subsurface utilities comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant or certify that the subsurface utilities are in the exact location indicated.

Legend:

	W	Waterline
	SAN	Sanitary Line
	ST	Storm Line
	GAS	Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-111

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
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Legend:

---	W	---	Waterline
---	UGE	---	Underground Electric
---	SAN	---	Sanitary Line
---	GAS	---	Natural Gas Line

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(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-112

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

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Legend:

— W —	Waterline
— SAN —	Sanitary Line
— ST —	Storm Line
— GAS —	Natural Gas Line

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Susan M. Anacker, L.S. Lic # 50321
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(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE: 1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-113

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

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Legend:

---	W	---	Waterline
---	SAN	---	Sanitary Line
---	ST	---	Storm Line
---	GAS	---	Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-114

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
2. The subsurface utilities shown hereon are of Quality Level "B" as defined by the American Society of Civil Engineers (ASCE) in the "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." The subsurface utilities shown hereon were designated utilizing geophysical methods. The surveyor makes no guarantee that the subsurface utilities comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant or certify that the subsurface utilities are in the exact location indicated.

Legend:

---	W	---	Waterline
---	SAN	---	Sanitary Line
---	ST	---	Storm Line
---	GAS	---	Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
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11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE: 1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-115

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
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Legend:

---	W	---	Waterline
---	SAN	---	Sanitary Line
---	ST	---	Storm Line
---	GAS	---	Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-116

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
2. The subsurface utilities shown hereon are of Quality Level "B" as defined by the American Society of Civil Engineers (ASCE) in the "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." The subsurface utilities shown hereon were designated utilizing geophysical methods. The surveyor makes no guarantee that the subsurface utilities comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant or certify that the subsurface utilities are in the exact location indicated.

Legend:

— W —	Waterline
— UGE —	Underground Electric
— SAN —	Sanitary Line
— ST —	Storm Line
— GAS —	Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 40'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-118

Project No.
13-72

City of Buffalo
County of Erie
State of New York



General Notes:

1. North arrow as shown indicates Grid North referenced to NAD83 and projected on the New York State Plane Coordinate System (West Zone).
2. The subsurface utilities shown hereon are of Quality Level "B" as defined by the American Society of Civil Engineers (ASCE) in the "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." The subsurface utilities shown hereon were designated utilizing geophysical methods. The surveyor makes no guarantee that the subsurface utilities comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant or certify that the subsurface utilities are in the exact location indicated.

Legend:

- W — Waterline
- SAN — Sanitary Line
- GAS — Natural Gas Line

Susan M. Anacker, Professional Land Surveyor
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DATE:
November 4, 2013

DRAWN:
O.J.L.

SCALE:
1" = 20'

Subsurface Utility Investigation Sketch

Proposed Monitor Well
MW-9R

Project No.
13-72

City of Buffalo
County of Erie
State of New York

APPENDIX D

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

BESTWAY CLEANERS

Prepared For:



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Division of Environmental Remediation
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PARSONS

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DECEMBER 2015

TABLE OF CONTENTS

	<u>Page</u>
SECTION 1 DATA USABILITY SUMMARY	1-1
1.1 LABORATORY DATA PACKAGES	1-1
1.2 SAMPLING AND CHAIN-OF-CUSTODY	1-1
1.3 LABORATORY ANALYTICAL METHODS	1-1
1.3.1 Volatile Organic Analysis	1-2
SECTION 2 DATA VALIDATION REPORT	2-1
2.1 SOIL AND SEDIMENT	2-1
2.1.1 Volatiles	2-1
2.2 GROUNDWATER SAMPLES	2-3
2.2.1 Volatiles	2-3

LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

Attachment A-1 Validated Laboratory Data For Soil And Sediment Samples

Attachment A-2 Validated Laboratory Data For Groundwater Samples

SECTION 1

DATA USABILITY SUMMARY

Soil, sediment, and groundwater samples were collected from the Bestway Cleaners site in Buffalo, New York from November 4, 2013 through November 18, 2013 and October 19, 2015 through October 20, 2015. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Test America Laboratories (TAL) in Buffalo, New York. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 11-43 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The project samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning these laboratory analyses are presented in Subsection 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. Certain reported results for these samples were qualified as estimated based upon laboratory control sample (LCS) recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, instrument calibrations, and percent solids content. The reported VOC analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL AND SEDIMENT

Data review has been completed for data packages generated by TAL containing soil and sediment samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDG) 480-49419-1 and 480-89388-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, blank contamination, and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable, within QC

PARSONS

limits, and did not require qualification with the exception of the low MS/MSD accuracy results for 1,2-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, ethylbenzene, tetrachloroethene, toluene, trans-1,2-dichloroethene, and trichloroethene during the spiked analyses of samples MW111SB0911 and MW115SB0911. Therefore, the results for these compounds which were nondetects were considered estimated, possibly biased low, and qualified “UJ” for the affected parent samples.

It was noted that there were MS/MSD accuracy outliers associated with sample B-1-2015-10-19(3-3.5) for 1,2-dichlorobenzene, tetrachloroethene, 1,2,4-trichlorobenzene, 2-butanone, and acetone. Validation qualification of the parent sample was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recovery for carbon disulfide (148%R; QC limit 40-136%R) associated with soil samples B-1-2015-10-19(15.5-16) and B-10-2015-10-19(15.5-16). Since carbon disulfide was not detected in these samples, validation qualification was not required.

Blank Contamination

The laboratory method blank associated with sample B-1-2015-10-19(3-3.5) contained acetone and methylene chloride below the reporting limit at concentrations of 4.53 and 4.35 µg/kg, respectively. Validation qualification of this sample was not required.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm 20\%$ with the exception of bromoform (-20.2%D) in the continuing calibration associated with samples SS-01, SS-02, SS-03, MW118SB, MW113SB, MW112SB0709, and MW112SB0911; toluene (-22.7%D) and bromoform (-24.8%D) in the continuing calibration associated with sample MW111SB0911; trichlorofluoromethane (21.2%D) in the continuing calibration associated with sample SED-01; dichlorodifluoromethane (-25%D), acetone (25.7%D), and toluene (-20.6%D) in the continuing calibration associated with samples MW9ASB and MW115SB; and dichlorodifluoromethane (-26%D) in the continuing calibration associated with sample MW114SB. Therefore, the sample results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Usability

All volatile soil and sediment sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The

volatile soil and sediment data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

It was noted that sample SED-01 contained a percent solids content of less than 50%. Therefore, results for this sample were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

2.2 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by TAL containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs 480-49419-1, 480-50044-1, and 480-89464-1. The validated laboratory data are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the high MS accuracy result for 1,2,4-trichlorobenzene during the spiked analyses of sample B-1-2015-10-20. Validation qualification of the parent sample was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recoveries for tetrachloroethene (125%R, 123%R; QC limit 74-122%R) associated with sample GW-5; and 2-butanone (194%R; QC limit 57-140%R) and acetone (146%R; QC limit 56-142%R) associated with all samples in SDG 480-89464-1. Therefore, positive results for these compounds were considered estimated, possibly biased high, and qualified “J+” for the affected samples.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within $\pm 20\%$ with the exception of chloroethane (36%D), trichlorofluoromethane (29.8%D), 1,1,2-trichloro-1,2,2-trifluoroethane (21.7%D), acetone (34.5%D), 2-butanone (20.5%D), and bromoform (-28.2%D) in the continuing calibration associated with sample MW-8; chloroethane (22.8%D), trichlorofluoromethane (39.5%D), acetone (22%D), 1,1,1-trichloroethane (27%D), carbon tetrachloride (35%D), 1,2-dichloroethane (23.5%D), and bromoform (-20.6%D) in the continuing calibration associated with samples MW-115, MW-112, and TB (11/13/13); methylcyclohexane (24.1%D) in the continuing calibration associated with samples GW-3, GW-4, MW-111, and TB (11/18/13); cyclohexane (-21.3%D) and 1,2-dibromo-3-chloropropane (-20.6%D) in the continuing calibration associated with samples MW-114, MW-113, MW-9R, and TB (11/14/13); bromomethane (24.9%D) and carbon tetrachloride (24.3%D) in the continuing calibration associated with sample GW-8; dichlorodifluoromethane (-45.5%D) and chloromethane (-34.1%D) in the continuing calibration associated with samples EQUIP BLANK and TRIP BLANK (11/8/13); trichlorofluoromethane (32.6%D), 1,1,2-trichloro-1,2,2-trifluoroethane (23.2%D), acetone (47.4%D), methyl acetate (24.8%D), 2-butanone (30.8%D), 2-hexanone (23.1%D), and bromoform (-25.2%D) in the continuing calibration associated with sample MW-10; and bromomethane (34.2%D) in the continuing calibration associated with all samples in SDG 480-89464-1. Therefore, the sample results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Usability

All groundwater volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

ATTACHMENT A

VALIDATED LABORATORY DATA

ATTACHMENT A-1

**VALIDATED LABORATORY DATA FOR SOIL AND SEDIMENT
SAMPLES**

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Surface Soil Analytical Data SDG: 480-494191		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	SS-01 SS-01 (0-0.5) 480-49424-1 TALBUFF 480494191 SOIL 11/5/2013 1/8/2014	SS-02 SS-02 (0-0.5) 480-49424-2 TALBUFF 480494191 SOIL 11/5/2013 1/8/2014	SS-03 SS-03 (0-0.5) 480-49424-3 TALBUFF 480494191 SOIL 11/5/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.7 U	6.8 U	6.5 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.7 U	6.8 U	6.5 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.7 U	6.8 U	6.5 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.7 U	6.8 U	6.5 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
591-78-6	2-HEXANONE	ug/kg	33 U	34 U	33 U
67-64-1	ACETONE	ug/kg	33 U	34 U	33 U
71-43-2	BENZENE	ug/kg	6.7 U	6.8 U	6.5 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-25-2	BROMOFORM	ug/kg	6.7 UJ	6.8 UJ	6.5 UJ
74-83-9	BROMOMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-15-0	CARBON DISULFIDE	ug/kg	6.7 U	6.8 U	6.5 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.7 U	6.8 U	6.5 U
108-90-7	CHLOROBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
75-00-3	CHLOROETHANE	ug/kg	6.7 U	6.8 U	6.5 U
67-66-3	CHLOROFORM	ug/kg	6.7 U	6.8 U	6.5 U
74-87-3	CHLOROMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.7 U	6.8 U	6.5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.7 U	6.8 U	6.5 U
110-82-7	CYCLOHEXANE	ug/kg	6.7 U	6.8 U	6.5 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
100-41-4	ETHYLBENZENE	ug/kg	6.7 U	6.8 U	6.5 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.7 U	6.8 U	6.5 U
79-20-9	METHYL ACETATE	ug/kg	6.7 U	6.8 U	6.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	33 U	34 U	33 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	33 U	34 U	33 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.7 U	6.8 U	6.5 U
75-09-2	METHYLENE CHLORIDE	ug/kg	6.7 U	6.8 U	6.5 U
100-42-5	STYRENE	ug/kg	6.7 U	6.8 U	6.5 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.7 U	6.8 U	6.5 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	11	6.8 U	6.5 U
108-88-3	TOLUENE	ug/kg	6.7 U	6.8 U	6.5 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.7 U	6.8 U	6.5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.7 U	6.8 U	6.5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.7 U	6.8 U	6.5 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.7 U	6.8 U	6.5 U
75-01-4	VINYL CHLORIDE	ug/kg	6.7 U	6.8 U	6.5 U
XYLENES	XYLENES, TOTAL	ug/kg	13 U	14 U	13 U

		Dup of MW111SB MW111SB-0911					
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Soil Analytical Data SDG: 480-494191		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	MW9ASB MW9ASB-0911 480-49793-2 TALBUFF 480494191 SOIL 11/7/2013 1/8/2014	MW111SB MW111SB-0911 480-49538-2 TALBUFF 480494191 SOIL 11/6/2013 1/8/2014	MW111SB MW211SB-0911 480-49538-3 TALBUFF 480494191 SOIL 11/6/2013 1/8/2014	MW112SB MW112SB-0709 480-49538-1 TALBUFF 480494191 SOIL 11/6/2013 1/8/2014	MW113SB MW113SB-0911 480-49425-2 TALBUFF 480494191 SOIL 11/5/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
591-78-6	2-HEXANONE	ug/kg	28 U	33 U	34 U	31 U	29 U
67-64-1	ACETONE	ug/kg	28 UJ	33 U	34 U	24 J	29 U
71-43-2	BENZENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-25-2	BROMOFORM	ug/kg	5.7 U	6.6 UJ	6.8 UJ	6.2 UJ	5.8 UJ
74-83-9	BROMOMETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-15-0	CARBON DISULFIDE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
108-90-7	CHLOROBENZENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
75-00-3	CHLOROETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
67-66-3	CHLOROFORM	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
74-87-3	CHLOROMETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
110-82-7	CYCLOHEXANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.7 UJ	6.6 U	6.8 U	6.2 U	5.8 U
100-41-4	ETHYLBENZENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
79-20-9	METHYL ACETATE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	28 U	33 U	34 U	16 J	29 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	28 U	33 U	34 U	31 U	29 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-09-2	METHYLENE CHLORIDE	ug/kg	14	6.6 U	6.8 U	6.2 U	9.9
100-42-5	STYRENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
108-88-3	TOLUENE	ug/kg	5.7 UJ	6.6 UJ	6.8 U	6.2 U	5.8 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.7 U	6.6 UJ	6.8 U	6.2 U	5.8 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
75-01-4	VINYL CHLORIDE	ug/kg	5.7 U	6.6 U	6.8 U	6.2 U	5.8 U
XYLENES	XYLENES, TOTAL	ug/kg	11 U	13 U	14 U	12 U	12 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Soil Analytical Data SDG: 480-494191		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	MW114SB MW114SB-0911 480-49944-1 TALBUFF 480494191 SOIL 11/11/2013 1/8/2014	MW115SB MW115SB-0911 480-49793-3 TALBUFF 480494191 SOIL 11/8/2013 1/8/2014	MW118SB MW118SB-1113 480-49425-1 TALBUFF 480494191 SOIL 11/4/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.1 U	6.5 U	5.9 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.1 U	6.5 U	5.9 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.1 U	6.5 U	5.9 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.1 U	6.5 U	5.9 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.1 U	6.5 UJ	5.9 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.1 U	6.5 U	5.9 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.1 U	6.5 U	5.9 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.1 U	6.5 U	5.9 U
591-78-6	2-HEXANONE	ug/kg	31 U	33 U	30 U
67-64-1	ACETONE	ug/kg	31 U	33 UJ	30 U
71-43-2	BENZENE	ug/kg	6.1 U	6.5 UJ	5.9 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-25-2	BROMOFORM	ug/kg	6.1 U	6.5 U	5.9 UJ
74-83-9	BROMOMETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-15-0	CARBON DISULFIDE	ug/kg	6.1 U	6.5 U	5.9 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.1 U	6.5 U	5.9 U
108-90-7	CHLOROBENZENE	ug/kg	6.1 U	6.5 UJ	5.9 U
75-00-3	CHLOROETHANE	ug/kg	6.1 U	6.5 U	5.9 U
67-66-3	CHLOROFORM	ug/kg	6.1 U	6.5 U	5.9 U
74-87-3	CHLOROMETHANE	ug/kg	6.1 U	6.5 U	5.9 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.1 U	6.5 UJ	5.4 J
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.1 U	6.5 U	5.9 U
110-82-7	CYCLOHEXANE	ug/kg	6.1 U	6.5 U	5.9 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.1 UJ	6.5 UJ	5.9 U
100-41-4	ETHYLBENZENE	ug/kg	0.5 J	6.5 UJ	5.9 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.1 U	6.5 U	5.9 U
79-20-9	METHYL ACETATE	ug/kg	6.1 U	6.5 U	5.9 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	31 U	33 U	30 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	31 U	33 U	30 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.1 U	6.5 U	5.9 U
75-09-2	METHYLENE CHLORIDE	ug/kg	6.1 U	26	16
100-42-5	STYRENE	ug/kg	6.1 U	6.5 U	5.9 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.1 U	6.5 U	5.9 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.1 U	6.5 UJ	22
108-88-3	TOLUENE	ug/kg	6.1 U	6.5 UJ	5.9 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.1 U	6.5 UJ	5.9 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.1 U	6.5 U	5.9 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.1 U	6.5 UJ	1.9 J
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.1 U	6.5 U	5.9 U
75-01-4	VINYL CHLORIDE	ug/kg	6.1 U	6.5 U	5.9 U
XYLENES	XYLENES, TOTAL	ug/kg	1.7 J	13 U	12 U

		Dup of B-1_2015-10-19 (15.5-16.0)			
NYSDEC-Bestway Cleaners 2015 Site Investigation Validated Soil Analytical Data SDG: 480-89388-1		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	B-1 B-1_2015-10-19 (3.0-3.5) 480-89388-1 TALBUFF 480893881 SOIL 10/19/2015 12/4/2015	B-1 B-1_2015-10-19 (15.5-16.0) 480-89388-2 TALBUFF 480893881 SOIL 10/19/2015 12/4/2015	B-1 B-10_2015-10-19 (15.5-16.0) 480-89388-3 TALBUFF 480893881 SOIL 10/19/2015 12/4/2015
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.4 U	1400 U	1400 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.4 U	1400 U	1400 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.4 U	1400 U	1400 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.4 U	1400 U	1400 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.4 U	1400 U	1400 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.4 U	1400 U	1400 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.4 U	1400 U	1400 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.4 U	1400 U	1400 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.4 U	1400 U	1400 U
591-78-6	2-HEXANONE	ug/kg	32 U	7100 U	7000 U
67-64-1	ACETONE	ug/kg	32 U	7100 U	7000 U
71-43-2	BENZENE	ug/kg	6.4 U	1400 U	1400 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.4 U	1400 U	1400 U
75-25-2	BROMOFORM	ug/kg	6.4 U	1400 U	1400 U
74-83-9	BROMOMETHANE	ug/kg	6.4 U	1400 U	1400 U
75-15-0	CARBON DISULFIDE	ug/kg	6.4 U	1400 U	1400 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.4 U	1400 U	1400 U
108-90-7	CHLOROBENZENE	ug/kg	6.4 U	1400 U	1400 U
75-00-3	CHLOROETHANE	ug/kg	6.4 U	1400 U	1400 U
67-66-3	CHLOROFORM	ug/kg	6.4 U	1400 U	1400 U
74-87-3	CHLOROMETHANE	ug/kg	6.4 U	1400 U	1400 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.4 U	1400 U	1400 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.4 U	1400 U	1400 U
110-82-7	CYCLOHEXANE	ug/kg	6.4 U	1900	2000
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.4 U	1400 U	1400 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.4 U	1400 U	1400 U
100-41-4	ETHYLBENZENE	ug/kg	6.4 U	1400 U	1400 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.4 U	260 J	290 J
79-20-9	METHYL ACETATE	ug/kg	6.4 U	1400 U	1400 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	32 U	7100 U	7000 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	32 U	7100 U	7000 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.4 U	9200	9500
75-09-2	METHYLENE CHLORIDE	ug/kg	18	1400 U	1400 U
100-42-5	STYRENE	ug/kg	6.4 U	1400 U	1400 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.4 U	1400 U	1400 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	220	1400 U	1400 U
108-88-3	TOLUENE	ug/kg	6.4 U	1400 U	1400 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.4 U	1400 U	1400 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.4 U	1400 U	1400 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.4 U	1400 U	1400 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.4 U	1400 U	1400 U
75-01-4	VINYL CHLORIDE	ug/kg	6.4 U	1400 U	1400 U
XYLENES	XYLENES, TOTAL	ug/kg	6.4 J	2900 U	2800 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Sediment Analytical Data SDG: 480-494191		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SED-01 SED-01 480-49536-1 TALBUFF 480494191 SOIL 11/6/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	16 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	16 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	16 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	16 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	16 UJ
75-35-4	1,1-DICHLOROETHENE	ug/kg	16 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	16 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	16 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	16 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	16 UJ
107-06-2	1,2-DICHLOROETHANE	ug/kg	16 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/kg	16 UJ
541-73-1	1,3-DICHLOROBENZENE	ug/kg	16 UJ
106-46-7	1,4-DICHLOROBENZENE	ug/kg	16 UJ
591-78-6	2-HEXANONE	ug/kg	78 UJ
67-64-1	ACETONE	ug/kg	78 UJ
71-43-2	BENZENE	ug/kg	16 UJ
75-27-4	BROMODICHLOROMETHANE	ug/kg	16 UJ
75-25-2	BROMOFORM	ug/kg	16 UJ
74-83-9	BROMOMETHANE	ug/kg	16 UJ
75-15-0	CARBON DISULFIDE	ug/kg	16 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	16 UJ
108-90-7	CHLOROBENZENE	ug/kg	16 UJ
75-00-3	CHLOROETHANE	ug/kg	16 UJ
67-66-3	CHLOROFORM	ug/kg	16 UJ
74-87-3	CHLOROMETHANE	ug/kg	16 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	16 UJ
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	16 UJ
110-82-7	CYCLOHEXANE	ug/kg	16 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	16 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	16 UJ
100-41-4	ETHYLBENZENE	ug/kg	16 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	16 UJ
79-20-9	METHYL ACETATE	ug/kg	16 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	78 UJ
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	78 UJ
108-87-2	METHYLCYCLOHEXANE	ug/kg	16 UJ
75-09-2	METHYLENE CHLORIDE	ug/kg	16 UJ
100-42-5	STYRENE	ug/kg	16 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	16 UJ
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	16 UJ
108-88-3	TOLUENE	ug/kg	16 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	16 UJ
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	16 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	16 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	16 UJ
75-01-4	VINYL CHLORIDE	ug/kg	16 UJ
XYLENES	XYLENES, TOTAL	ug/kg	31 UJ

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

				Dup of GW-2-111413							
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Groundwater Analytical Data SDG: 480-494191 & 480-500441		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	GW-1 GW-1-111413 480-50249-5 TALBUFF 480500441 WATER 11/15/2013 1/8/2014	GW-2 GW-2-111413 480-50249-2 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-2 GW-102-111413 480-50249-3 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-3 GW-3-111813 480-50409-2 TALBUFF 480500441 WATER 11/18/2013 1/8/2014	GW-4 GW-4-111813 480-50409-1 TALBUFF 480500441 WATER 11/18/2013 1/8/2014	GW-5 GW-5-111213 480-50044-1 TALBUFF 480500441 WATER 11/12/2013 1/8/2014	GW-7 GW-7-111413 480-50249-1 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-8 GW-8-111213 480-49943-1 TALBUFF 480494191 WATER 11/12/2013 1/8/2014	GW-9 GW-9-111213 480-49941-1 TALBUFF 480494191 WATER 11/12/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:									
VOLATILES											
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.43 J	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	0.49 J	0.41 J	1 U	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	0.47 J	1 U	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	110
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	17	280	280	160	1 U	1 U	1 U	9.9	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	81
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.5
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	110
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.9	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	32	100	99	79	1 U	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	2.5	2.4	1.3	1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	10	44	43	28	1 U	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1.7	4.1	4.2	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.9 J

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Groundwater Analytical Data SDG: 480-494191 & 480-500441		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-8 MW-8-110513 480-49419-1 TALBUFF 480494191 WATER 11/5/2013 1/8/2014	MW-9R MW-9R-111413 480-50137-3 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	MW-10 MW-10-110613 480-49534-1 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW-111 MW-111-111813 480-50409-3 TALBUFF 480500441 WATER 11/18/2013 1/8/2014	MW-112 MW-112-111313 480-50045-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-113 MW-113-111313 480-50137-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-114 MW-114-111313 480-50137-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-115 MW-115-111313 480-50045-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-118 MW-118-111413 480-50249-4 TALBUFF 480500441 WATER 11/15/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:									
	VOLATILES										
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 UJ	10 U	3 J	10 U	10 UJ	10 U	10 U	3.2 J	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	0.58 J	1 U	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	2.6	38	2.9	1 U	1 U	1 U	1 U	4.5	85
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	3.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	12	1 U	12	6.7	1 U	1 U	1 U	120
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	27	6.4	1 U	1 U	0.6 J	1 U	1 U	1 U	22
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.5
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Field QC Analytical Data SDG: 480-494191& 480-500441		Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated:	FIELDQC EQUIPBLNK-20131107 480-49793-1 TALBUFF 480494191 WATER 11/7/2013 1/8/2014	FIELDQC TRIP BLANK-20131108 480-49793-4 TALBUFF 480494191 WATER 11/8/2013 1/8/2014	FIELDQC TRIP BLANK-20131111 480-49944-2 TALBUFF 480494191 WATER 11/11/2013 1/8/2014	FIELDQC TRIP BLANK-20131112 480-49941-2 TALBUFF 480494191 WATER 11/12/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROENZENE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROENZENE	ug/l	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U
108-90-7	CHLOROENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 UJ	1 UJ	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 UJ	1 UJ	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Field QC Analytical Data SDG: 480-494191& 480-500441		Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated:	FIELDQC TRIP BLANK-20131113 480-50045-3 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	FIELDQC TRIP BLANK-20131114 480-50137-4 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	FIELDQC TRIP BLANK-20131115 480-50249-6 TALBUFF 480500441 WATER 11/15/2013 1/8/2014	FIELDQC TRIP BLANK-20131118 480-50409-4 TALBUFF 480500441 WATER 11/18/2013 1/8/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 UJ	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 UJ	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 UJ	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 UJ	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 UJ	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 UJ	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 UJ	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 UJ	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 UJ
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 UJ	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U

				Dup of B-1_2015-10-20	
NYSDEC-Bestway Cleaners 2015 Site Investigation Validated Groundwater Analytical Data SDG: 480-89388-1		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	B-1 B-1_2015-10-20 480-89464-1 TALBUFF 480894641 WATER 10/20/2015 12/4/2015	B-1 B-10_2015-10-20 480-89464-2 TALBUFF 480894641 WATER 10/20/2015 12/4/2015	FIELDQC TB-001 480-89464-3 TALBUFF 480894641 WATER 10/20/2015 12/4/2015
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	0.66 J	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	3 J	3.8 J	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	0.35 J	0.34 J	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	0.84 J	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	34	44	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1.6	1.7	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	6.7	7.4	1 U
79-20-9	METHYL ACETATE	ug/l	2.5 U	2.5 U	2.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	3.1 J	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	70	89	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	29	29	1 U
108-88-3	TOLUENE	ug/l	12	13	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1.6	2	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U

DATA USABILITY SUMMARY REPORT

BESTWAY CLEANERS

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TABLE OF CONTENTS

	<u>Page</u>
SECTION 1 DATA USABILITY SUMMARY.....	1-1
1.1 LABORATORY DATA PACKAGES.....	1-1
1.2 SAMPLING AND CHAIN-OF-CUSTODY	1-1
1.3 LABORATORY ANALYTICAL METHODS	1-1
1.3.1 Volatile Organic Analysis.....	1-2
SECTION 2 DATA VALIDATION REPORT.....	2-1
2.1 AIR.....	2-1
2.1.1 Volatiles.....	2-1

LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Air samples were collected from the Bestway Cleaners site in Buffalo, New York from March 18, 2014 through March 20, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Test America Laboratories (TAL) in Knoxville, Tennessee. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 42-47 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one to four days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The project samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning these laboratory analyses are presented in Subsection 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

PARSONS

- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for VOCs using the USEPA TO-15 analytical method. Certain reported results for these samples were qualified as estimated based upon laboratory control sample (LCS) recoveries and instrument calibrations. The reported VOC analytical results were 100% complete (i.e., usable) for the project data. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 AIR

Data review has been completed for data packages generated by TAL containing air samples collected from the site. Analytical results from these samples were contained within sample delivery group (SDG) 140-1082-1, 140-1089-1, and 140-1106-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Summa canister certifications
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of LCS recoveries, blank contamination, and continuing calibrations as discussed below.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recoveries for 2,2,4-trimethylpentane (68%R; QC limit 70-130%R), hexane (69%R; QC limit 70-130%R), and 4-methyl-2-pentanone (57%R; QC limit 60-140%R) and the high LCS recovery for hexachlorobutadiene (149%R; QC limit 60-140%R) associated with samples in SDG 140-1089-1. Therefore, the 2,2,4-trimethylpentane, hexane, and 4-methyl-2-pentanone results for the associated samples were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ”. Validation qualification of the associated hexachlorobutadiene results was not required.

Blank Contamination

The QC field blank TB-032014 associated with samples in SDG 140-1106-1 contained tetrachloroethene at a concentration of 0.71 µg/m³. Validation qualification of the associated sample results was not required.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within ±20% with the exception of 4-methyl-2-pentanone (-43.2%D) and hexachlorobutadiene (48.6%D) in the continuing calibration associated with samples in SDG 140-1089-1. Therefore, the sample results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Usability

All volatile air sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile air data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	2408A-IA1 2408A-IA1-032014 140-1106-1 TALKNX 14011061 AIR 3/20/2014 15:59 5/27/2014	2408A-IA2 2408A-IA2-032014 140-1106-3 TALKNX 14011061 AIR 3/20/2014 15:59 5/27/2014	2408A-SS1 2408A-SS1-032014 140-1106-5 TALKNX 14011061 AIR 3/20/2014 15:59 5/27/2014	2408A-SS2 2408A-SS2-032014 140-1106-2 TALKNX 14011061 AIR 3/20/2014 15:59 5/27/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	53 U	22 U	89 U	11 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	66 U	28 U	110 U	14 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	74 U	31 U	130 U	15 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	53 U	22 U	89 U	11 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	39 U	16 U	66 U	8.1 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	38 U	16 U	65 U	7.9 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	72 U	30 U	120 U	15 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	48 U	20 U	80 U	18
106-93-4	1,2-DIBROMOETHANE	ug/m3	74 U	31 U	130 U	15 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	58 U	24 U	98 U	12 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	39 U	16 U	66 U	8.1 U
76-14-2	1,2-DICHLOROTETRAFLUROETHANE	ug/m3	68 U	28 U	110 U	14 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	45 U	19 U	75 U	9.2 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	48 U	20 U	80 U	9.8 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	58 U	24 U	98 U	12 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	58 U	24 U	98 U	12 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	87 U	36 U	150 U	18 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	110 U	47 U	190 U	23 U
71-43-2	BENZENE	ug/m3	31 U	13 U	52 U	6.4 U
100-44-7	BENZYL CHLORIDE	ug/m3	100 U	42 U	170 U	21 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	65 U	27 U	110 U	13 U
75-25-2	BROMOFORM	ug/m3	100 U	42 U	170 U	21 U
74-83-9	BROMOMETHANE	ug/m3	38 U	16 U	63 U	7.8 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	30 U	13 U	51 U	6.3 U
108-90-7	CHLOROBENZENE	ug/m3	44 U	19 U	75 U	9.2 U
75-00-3	CHLOROETHANE	ug/m3	26 U	11 U	43 U	5.3 U
67-66-3	CHLOROFORM	ug/m3	47 U	20 U	80 U	9.8 U
74-87-3	CHLOROMETHANE	ug/m3	50 U	21 U	84 U	10 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	38 U	16 U	65 U	7.9 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	44 U	18 U	74 U	9.1 U
110-82-7	CYCLOHEXANE	ug/m3	83 U	35 U	140 U	37
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	82 U	34 U	140 U	17 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	48 U	20 U	81 U	9.9 U
64-17-5	ETHANOL	ug/m3	180 U	76 U	310 U	38 U
100-41-4	ETHYLBENZENE	ug/m3	42 U	18 U	71 U	8.7 U
87-68-3	HEXACHROBUTADIENE	ug/m3	100 U	43 U	170 U	21 U
179601-23-1	M,P-XYLENES	ug/m3	42 U	18 U	71 U	25
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	110 U	48 U	190 U	24 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	99 U	41 U	170 U	20 U
75-09-2	METHYLENE CHLORIDE	ug/m3	84 U	35 U	140 U	17 U
110-54-3	N-HEXANE	ug/m3	85 U	36 U	140 U	31
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	42 U	18 U	71 U	8.7 U
100-42-5	STYRENE	ug/m3	41 U	17 U	70 U	8.5 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	120 U	49 U	200 U	24 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	70 U	29 U	120 U	14 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	8300	3600	20000	980
108-88-3	TOLUENE	ug/m3	55 U	23 U	92 U	11 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	38 U	16 U	65 U	7.9 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	44 U	18 U	74 U	9.1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	26 U	11 U	44 U	5.4 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	54 U	23 U	92 U	11 U
75-01-4	VINYL CHLORIDE	ug/m3	25 U	10 U	42 U	5.1 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	354Y-IA 354Y-IA-031714 140-1082-1 TALKNX 14010821 AIR 3/18/2014 13:00 5/27/2014	354Y-SS 354Y-SS-031714 140-1082-2 TALKNX 14010821 AIR 3/18/2014 13:00 5/27/2014	Dup of 354Y-SS 354Y-SS SSD-031714 140-1082-3 TALKNX 14010821 AIR 3/18/2014 0:00 5/27/2014	360E-IA 360E-IA-031714 140-1082-5 TALKNX 14010821 AIR 3/18/2014 11:00 5/27/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	4.4 U	4.4 U	0.44 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	5.5 U	5.5 U	0.55 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.64	6.1 U	6.1 U	0.61 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	4.4 U	4.4 U	0.44 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	3.2 U	3.2 U	0.32 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	3.2 U	3.2 U	0.32 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	5.9 U	5.9 U	0.59 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.91	3.9 U	3.9 U	0.55
106-93-4	1,2-DIBROMOETHANE	ug/m3	0.61 U	6.1 U	6.1 U	0.61 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	4.8 U	4.8 U	0.48 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	3.2 U	3.2 U	0.32 U
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	5.6 U	5.6 U	0.56 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	3.7 U	3.7 U	0.37 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	3.9 U	3.9 U	0.39 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	4.8 U	4.8 U	0.48 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	4.8 U	4.8 U	0.48 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	7.2 U	7.2 U	0.72 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	9.3 U	9.3 U	0.93 U
71-43-2	BENZENE	ug/m3	1.1	2.6 U	2.6 U	0.73
100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	8.3 U	8.3 U	0.83 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	5.4 U	5.4 U	0.54 U
75-25-2	BROMOFORM	ug/m3	0.83 U	8.3 U	8.3 U	0.83 U
74-83-9	BROMOMETHANE	ug/m3	0.31 U	3.1 U	3.1 U	0.31 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.48	2.5 U	2.5 U	0.4
108-90-7	CHLOROBENZENE	ug/m3	0.37 U	3.7 U	3.7 U	0.37 U
75-00-3	CHLOROETHANE	ug/m3	0.21 U	2.1 U	2.1 U	0.21 U
67-66-3	CHLOROFORM	ug/m3	0.39 U	3.9 U	3.9 U	0.39 U
74-87-3	CHLOROMETHANE	ug/m3	1.4	4.1 U	4.1 U	1.2
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	3.2 U	3.2 U	0.32 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	3.6 U	3.6 U	0.36 U
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	6.9 U	6.9 U	0.69 U
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	6.8 U	6.8 U	0.68 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	0.54	4 U	4 U	0.55
64-17-5	ETHANOL	ug/m3	150	15 U	15 U	36
100-41-4	ETHYLBENZENE	ug/m3	0.38	3.5 U	3.5 U	0.35 U
87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 U	8.5 U	8.5 U	0.85 U
179601-23-1	M,P-XYLENES	ug/m3	1.2	3.5 U	3.5 U	0.74
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	1	9.4 U	9.4 U	4.1
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	0.82 U	8.2 U	8.8	1.5
75-09-2	METHYLENE CHLORIDE	ug/m3	0.69 U	6.9 U	6.9 U	0.69 U
110-54-3	N-HEXANE	ug/m3	0.88	7 U	7 U	0.7
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.45	3.5 U	3.5 U	0.35 U
100-42-5	STYRENE	ug/m3	0.34 U	3.4 U	3.4 U	0.34 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	9.7 U	9.7 U	0.97 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	5.8 U	5.8 U	0.58 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	2.5	710	750	3.2
108-88-3	TOLUENE	ug/m3	7.3	4.5 U	4.5 U	2.2
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	3.2 U	3.2 U	0.32 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	3.6 U	3.6 U	0.36 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	2.1 U	2.1 U	0.21 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.1	4.5 U	4.5 U	1.2
75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	2 U	2 U	0.2 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	360E-SS 360E-SS-031714 140-1082-6 TALKNX 14010821 AIR 3/18/2014 11:00 5/27/2014	383E-IA 383E-IA-031814 140-1089-4 TALKNX 14010891 AIR 3/19/2014 14:53 5/27/2014	383E-SS 383E-SS-031814 140-1089-5 TALKNX 14010891 AIR 3/19/2014 14:53 5/27/2014	387E-IA 387E-IA-031714 140-1089-1 TALKNX 14010891 AIR 3/18/2014 14:52 5/27/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	22 U	0.44 U	2.1	0.44 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	27 U	0.55 U	0.55 U	0.55 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	31 U	0.61 U	0.61 U	0.61 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	22 U	0.44 U	0.44 U	0.44 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	16 U	0.32 U	0.32 U	0.32 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	16 U	0.32 U	0.32 U	0.32 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	30 U	0.59 U	0.59 U	0.59 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	20 U	3.5	0.81	0.49
106-93-4	1,2-DIBROMOETHANE	ug/m3	31 U	0.61 U	0.61 U	0.61 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	24 U	0.48 U	0.48 U	0.48 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	16 U	0.32 U	0.32 U	0.32 U
76-14-2	1,2-DICHLOROTETRAFLUROETHANE	ug/m3	28 U	0.56 U	0.56 U	0.56 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	18 U	0.37 U	0.37 U	0.37 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	20 U	0.75	0.39 U	0.39 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	24 U	0.48 U	0.48 U	0.48 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	24 U	0.48 U	0.48 U	0.48 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	36 U	0.72 U	0.72 U	0.72 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	47 U	0.93 UJ	0.93 UJ	0.93 UJ
71-43-2	BENZENE	ug/m3	13 U	2.6	0.26 U	0.66
100-44-7	BENZYL CHLORIDE	ug/m3	41 U	0.83 U	0.83 U	0.83 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	27 U	0.54 U	0.54 U	0.54 U
75-25-2	BROMOFORM	ug/m3	41 U	0.83 U	0.83 U	0.83 U
74-83-9	BROMOMETHANE	ug/m3	16 U	0.31 U	0.31 U	0.31 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	13 U	0.5	0.25 U	0.43
108-90-7	CHLOROBENZENE	ug/m3	18 U	0.37 U	0.37 U	0.37 U
75-00-3	CHLOROETHANE	ug/m3	11 U	0.21 U	0.21 U	0.21 U
67-66-3	CHLOROFORM	ug/m3	20 U	0.39 U	0.39 U	0.39 U
74-87-3	CHLOROMETHANE	ug/m3	21 U	1.1	0.41 U	1
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	16 U	0.32 U	0.32 U	0.32 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	18 U	0.36 U	0.36 U	0.36 U
110-82-7	CYCLOHEXANE	ug/m3	34 U	0.69 U	0.69 U	0.69 U
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	34 U	0.68 U	0.68 U	0.68 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	20 U	2	1.7	2
64-17-5	ETHANOL	ug/m3	75 U	25	1.6	110
100-41-4	ETHYLBENZENE	ug/m3	17 U	2.2	0.35 U	0.35 U
87-68-3	HEXACHLOROBUTADIENE	ug/m3	43 U	0.85 UJ	0.85 UJ	0.85 UJ
179601-23-1	M,P-XYLENES	ug/m3	17 U	9.4	0.62	0.94
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	47 U	0.94 U	0.94 U	0.94 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	41 U	0.82 UJ	0.82 UJ	3.1 J-
75-09-2	METHYLENE CHLORIDE	ug/m3	35 U	0.69 U	0.69 U	2.7
110-54-3	N-HEXANE	ug/m3	35 U	4.4 J-	0.7 UJ	0.7 UJ
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	17 U	3	0.35 U	0.35
100-42-5	STYRENE	ug/m3	17 U	0.34 U	0.34 U	0.34 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	49 U	0.97 U	0.97 U	0.97 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	29 U	0.58 U	0.58 U	0.58 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	1500	1.3	33	3.7
108-88-3	TOLUENE	ug/m3	23 U	10	0.81	1.7
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	16 U	0.32 U	0.32 U	0.32 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	18 U	0.36 U	0.36 U	0.36 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	11 U	0.21 U	0.21 U	0.21 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	22 U	1.4	1.3	1.3
75-01-4	VINYL CHLORIDE	ug/m3	10 U	0.2 U	0.2 U	0.2 U

		Dup of 387E-IA				
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	387E-IA IAD-031714 140-1089-3 TALKNX 14010891 AIR 3/18/2014 0:00 5/27/2014	387E-SS 387E-SS-031714 140-1089-2 TALKNX 14010891 AIR 3/18/2014 14:52 5/27/2014	AA AA-031714 140-1082-4 TALKNX 14010821 AIR 3/18/2014 12:59 5/27/2014	AA AA-031814 140-1089-6 TALKNX 14010891 AIR 3/19/2014 14:53 5/27/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	8.5	0.44 U	0.44 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	0.55 U	0.55 U	0.55 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	0.59 U	0.59 U	0.59 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.77	0.76	0.52	0.66
106-93-4	1,2-DIBROMOETHANE	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	0.56 U	0.56 U	0.56 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	0.39 U	0.39 U	0.39 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	0.72 U	0.72 U	0.72 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 UJ	0.93 UJ	0.93 U	0.93 UJ
71-43-2	BENZENE	ug/m3	0.79	0.26 U	0.84	1.1
100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	0.54 U	0.54 U	0.54 U
75-25-2	BROMOFORM	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
74-83-9	BROMOMETHANE	ug/m3	0.31 U	0.31 U	0.31 U	0.31 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.52	0.25 U	0.37	0.54
108-90-7	CHLOROBENZENE	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U
75-00-3	CHLOROETHANE	ug/m3	0.21 U	0.21 U	0.21 U	0.21 U
67-66-3	CHLOROFORM	ug/m3	0.39 U	0.39 U	0.39 U	0.39 U
74-87-3	CHLOROMETHANE	ug/m3	0.94	0.69	1.3	0.86
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	0.69 U	0.69 U	0.69 U
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	0.68 U	0.68 U	0.68 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2.2	1.7	0.51	2.2
64-17-5	ETHANOL	ug/m3	120	3.2	12	16
100-41-4	ETHYLBENZENE	ug/m3	0.35 U	0.35 U	0.35 U	0.37
87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 UJ	0.85 UJ	0.85 U	0.85 UJ
179601-23-1	M,P-XYLENES	ug/m3	1.5	1.2	0.81	1.4
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	0.94 U	0.94 U	0.94 U	0.94 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	1.8 J-	0.82 UJ	0.82 U	0.82 UJ
75-09-2	METHYLENE CHLORIDE	ug/m3	3.2	0.69 U	0.69 U	0.69 U
110-54-3	N-HEXANE	ug/m3	0.7 UJ	0.7 UJ	0.7 U	0.79 J-
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.46	0.38	0.35 U	0.53
100-42-5	STYRENE	ug/m3	0.34 U	0.34 U	0.34 U	0.34 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	0.97 U	0.97 U	0.97 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	0.58 U	0.58 U	0.58 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	4.5	8.3	0.68	0.67
108-88-3	TOLUENE	ug/m3	1.9	0.93	1.3	2.2
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.21 U	0.21 U	0.21 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.5	1.1	1	1.5
75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	AA AA-032014 140-1106-4 TALKNX 14011061 AIR 3/20/2014 16:09 5/27/2014	FIELDQC TB-031714 140-1106-7 TALKNX 14011061 AIR 3/17/2014 0:00 5/27/2014	FIELDQC TB-032014 140-1106-6 TALKNX 14011061 AIR 3/20/2014 0:00 5/27/2014
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U	0.44 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	0.55 U	0.55 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.61 U	0.61 U	0.61 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U	0.44 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.32 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	0.59 U	0.59 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.39 U	0.39 U	0.39 U
106-93-4	1,2-DIBROMOETHANE	ug/m3	0.61 U	0.61 U	0.61 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.32 U
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	0.56 U	0.56 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	0.37 U	0.37 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	0.39 U	0.39 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	0.72 U	0.72 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	0.93 U	0.93 U
71-43-2	BENZENE	ug/m3	0.61	0.26 U	0.26 U
100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	0.83 U	0.83 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	0.54 U	0.54 U
75-25-2	BROMOFORM	ug/m3	0.83 U	0.83 U	0.83 U
74-83-9	BROMOMETHANE	ug/m3	0.31 U	0.31 U	0.31 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.47	0.25 U	0.25 U
108-90-7	CHLOROBENZENE	ug/m3	0.37 U	0.37 U	0.37 U
75-00-3	CHLOROETHANE	ug/m3	0.21 U	0.21 U	0.21 U
67-66-3	CHLOROFORM	ug/m3	0.39 U	0.39 U	0.39 U
74-87-3	CHLOROMETHANE	ug/m3	1.1	0.41 U	0.41 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	0.32 U	0.32 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	0.69 U	0.69 U
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	0.68 U	0.68 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2.3	0.4 U	0.4 U
64-17-5	ETHANOL	ug/m3	7.4	1.5 U	1.5 U
100-41-4	ETHYLBENZENE	ug/m3	0.35 U	0.35 U	0.35 U
87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 U	0.85 U	0.85 U
179601-23-1	M,P-XYLENES	ug/m3	0.43	0.35 U	0.35 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	0.94 U	0.94 U	0.94 U
108-10-1	METHYL ISOBUTYL KETONE	ug/m3	0.82 U	0.82 U	0.82 U
75-09-2	METHYLENE CHLORIDE	ug/m3	0.69 U	0.69 U	0.69 U
110-54-3	N-HEXANE	ug/m3	0.7 U	0.7 U	0.7 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.35 U	0.35 U	0.35 U
100-42-5	STYRENE	ug/m3	0.34 U	0.34 U	0.34 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	0.97 U	0.97 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	0.58 U	0.58 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	0.54 U	0.54 U	0.71
108-88-3	TOLUENE	ug/m3	0.85	0.45 U	0.45 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.21 U	0.21 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.2	0.45 U	0.45 U
75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	0.2 U	0.2 U

DATA USABILITY SUMMARY REPORT

BESTWAY CLEANERS

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TABLE OF CONTENTS

	<u>Page</u>
SECTION 1 DATA USABILITY SUMMARY.....	1-1
1.1 LABORATORY DATA PACKAGES.....	1-1
1.2 SAMPLING AND CHAIN-OF-CUSTODY	1-1
1.3 LABORATORY ANALYTICAL METHODS	1-1
1.3.1 Volatile Organic Analysis.....	1-2
SECTION 2 DATA VALIDATION REPORT.....	2-1
2.1 GROUNDWATER SAMPLES	2-1
2.1.1 Volatiles.....	2-1

LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected from the Bestway Cleaners site in Buffalo, New York from June 20, 2016 through June 22, 2016. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Test America Laboratories (TAL) in Buffalo, New York. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 8-9 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The project samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning these laboratory analyses are presented in Subsection 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported VOC analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by TAL containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs 480-101971-1, 480-102017-1, and 480-102072-1. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination as discussed below.

Blank Contamination

The QC TRIP BLANK 2016-06-22 associated with samples collected on 6/22/16 contained acetone below the reporting limit at a concentration of 8.7 µg/L. Validation qualification of the associated acetone results was not required.

Usability

All groundwater volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

			DUP of GW-3						
NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1			Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	GW-1 GW-1_2016-06-20 480-101971-4 TALBUFF 4801019711 WATER 6/20/2016 15:40 7/14/2016	GW-3 GW-3_2016-06-20 480-101971-3 TALBUFF 4801019711 WATER 6/20/2016 15:35 7/14/2016	GW-3 GW-30_2016-06-20 480-101971-2 TALBUFF 4801019711 WATER 6/20/2016 12:01 7/14/2016	GW-4 GW-4-2016-06-22 480-102072-2 TALBUFF 4801020721 WATER 6/22/2016 8:15 7/14/2016	GW-5 GW-5-2016-06-21 480-102017-2 TALBUFF 4801020171 WATER 6/21/2016 9:40 7/14/2016	GW-7 GW-7-2016-06-22 480-102072-5 TALBUFF 4801020721 WATER 6/22/2016 10:00 7/14/2016
CAS NO.	COMPOUND	UNITS:							
	VOLATILES								
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	1 U	1.5	1.6	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	7.3	39	39	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

				DUP of GW-3									
NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1		Location ID:	GW-1	GW-3	GW-3	GW-4	GW-5	GW-7					
		Sample ID:	GW-1_2016-06-20	GW-3_2016-06-20	GW-30_2016-06-20	GW-4-2016-06-22	GW-5-2016-06-21	GW-7-2016-06-22					
		Lab Sample Id:	480-101971-4	480-101971-3	480-101971-2	480-102072-2	480-102017-2	480-102072-5					
		Source:	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF					
		SDG:	4801019711	4801019711	4801019711	4801020721	4801020171	4801020721					
		Matrix:	WATER	WATER	WATER	WATER	WATER	WATER					
		Sampled:	6/20/2016 15:40	6/20/2016 15:35	6/20/2016 12:01	6/22/2016 8:15	6/21/2016 9:40	6/22/2016 10:00					
		Validated:	7/14/2016	7/14/2016	7/14/2016	7/14/2016	7/14/2016	7/14/2016					
CAS NO.	COMPOUND	UNITS:											
	VOLATILES												
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/L							10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/L							5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/L							1 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/L							1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L							1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L							1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/L							14	30	29	1 U	1 U
108-88-3	TOLUENE	ug/L							1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L							1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L							1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L							5.5	11	11	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/L							1 U	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L							2.6	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/L							2 U	2 U	2 U	2 U	2 U

NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	GW-8 GW-8-2016-06-22 480-102072-3 TALBUFF 4801020721 WATER 6/22/2016 11:25 7/14/2016	GW-9 GW-9-2016-06-22 480-102072-4 TALBUFF 4801020721 WATER 6/22/2016 10:15 7/14/2016	MW-111 MW-111-2016-06-22 480-102017-7 TALBUFF 4801020171 WATER 6/21/2016 15:30 7/14/2016	MW-112 MW-112-2016-06-22 480-102017-6 TALBUFF 4801020171 WATER 6/21/2016 14:10 7/14/2016	MW-113 MW-113-2016-06-22 480-102017-9 TALBUFF 4801020171 WATER 6/21/2016 14:20 7/14/2016	MW-114 MW-114-2016-06-22 480-102017-4 TALBUFF 4801020171 WATER 6/21/2016 11:00 7/14/2016
CAS NO.	COMPOUND	UNITS:						
	VOLATILES							
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	10 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/L	10 U	20 U	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	14	2 U	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/L	1 U	51	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/L	1 U	31	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/L	2.5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	GW-8 GW-8-2016-06-22 480-102072-3 TALBUFF 4801020721 WATER 6/22/2016 11:25 7/14/2016	GW-9 GW-9-2016-06-22 480-102072-4 TALBUFF 4801020721 WATER 6/22/2016 10:15 7/14/2016	MW-111 MW-111-2016-06-22 480-102017-7 TALBUFF 4801020171 WATER 6/21/2016 15:30 7/14/2016	MW-112 MW-112-2016-06-22 480-102017-6 TALBUFF 4801020171 WATER 6/21/2016 14:10 7/14/2016	MW-113 MW-113-2016-06-22 480-102017-9 TALBUFF 4801020171 WATER 6/21/2016 14:20 7/14/2016	MW-114 MW-114-2016-06-22 480-102017-4 TALBUFF 4801020171 WATER 6/21/2016 11:00 7/14/2016
CAS NO.	COMPOUND	UNITS:						
	VOLATILES							
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/L	10 U	20 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/L	5 U	10 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/L	1 U	100	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	4.3	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1.8	2 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/L	1 U	2 U	11	3.3	1 U	1 U
108-88-3	TOLUENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L	1 U	2 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/L	2 U	4 U	2 U	2 U	2 U	2 U

NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1		Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated:	MW-115 MW-115-2016-06-2 480-102017-3 TALBUFF 4801020171 WATER 6/21/2016 11:10 7/14/2016	MW-118 MW-118-2016-06-2 480-102017-10 TALBUFF 4801020171 WATER 6/21/2016 15:30 7/14/2016	MW-8 MW-8-2016-06-21 480-102017-8 TALBUFF 4801020171 WATER 6/21/2016 13:10 7/14/2016	MW-9R MW-9R-2016-06-21 480-102017-5 TALBUFF 4801020171 WATER 6/21/2016 12:35 7/14/2016	FIELDQC FIELDQC BLANK-2016-06-21 480-102017-1 TALBUFF 4801020171 WATER 6/21/2016 0:00 7/14/2016
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	2 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	2 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/L	1 U	2 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	2 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	10 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/L	10 U	20 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	12	2 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	2 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	2 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	2 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	33	2 U	1 U	0.73 J	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	1 U	91	1 U	10	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	2 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/L	1 U	2 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	3.3	2 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	1 U	2 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/L	1 U	2 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/L	2.5 U	5 U	2.5 U	2.5 U	2.5 U

NYSDEC-Bestway Cleaners 2016 Site Investigation Validated Groundwater Analytical Data SDGs: 480-101971-1, 480-102017-1, and 480-102072-1		Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated:	MW-115 MW-115-2016-06-2 480-102017-3 TALBUFF 4801020171 WATER 6/21/2016 11:10 7/14/2016	MW-118 MW-118-2016-06-2 480-102017-10 TALBUFF 4801020171 WATER 6/21/2016 15:30 7/14/2016	MW-8 MW-8-2016-06-21 480-102017-8 TALBUFF 4801020171 WATER 6/21/2016 13:10 7/14/2016	MW-9R MW-9R-2016-06-21 480-102017-5 TALBUFF 4801020171 WATER 6/21/2016 12:35 7/14/2016	FIELDQC TRIP BLANK-2016-06-21 480-102017-1 TALBUFF 4801020171 WATER 6/21/2016 0:00 7/14/2016
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/L	10 U	20 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/L	5 U	10 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/L	1 U	2 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	2 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L	1 U	2 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1 U	2 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/L	1 U	86	1 U	7.7	1 U
108-88-3	TOLUENE	ug/L	1 U	2 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	1 U	2 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	2 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	1 U	19	1 U	3.5	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	2 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L	1 U	2 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/L	2 U	4 U	2 U	2 U	2 U

APPENDIX E

SOIL VAPOR INTRUSION FIELD DATA

Soil Vapor Intrusion Sampling Records
2075 Seneca Street



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 2408A Building Name: 2408A Building
Address: 2408A (2075 Seneca St.) Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Contact Information

Preparer's Name: Eric Alongi Phone No: _____
Preparer's Affiliation: O'Brien & Gere Company Code: OBGSYR
Purpose of Investigation: SVI Date of Inspection: Mar 20, 2014
Contact Name: Joshua Haugh Affiliation: MANAGER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): Varies Number of Children: _____
☐ Occupant Interviewed? ☒ Owner Occupied? ☐ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: DRY CLEANER
If Residential Select Structure Type: _____
Number of Floors: 1 Approx. Year Construction: 1970 ☒ Building Insulated? ☒ Attached Garage?
Describe Overall Building Tightness and Airflows (e.g., results of smoke tests):
Average air tightness

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): _____ Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 5 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 6
☒ Floor penetrations? Describe Floor Penetrations: Drains, sewer, water, gas
☐ Wall penetrations? Describe Wall Penetrations: _____
Basement is: PARTIALLY FINISHED Basement is: DRY ☒ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): Foundation in good condition
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: HOT WATER BASEBOARD Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: NO CLOTHES DRYER
Water Htr Vent Location: OUTSIDE Dryer Vent Location: NONE



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: 2408A Building Bldg Code: 2408A Date:

Bldg Address: 2408A Apt/Suite No:

Bldg City/State/Zip: Buffalo NY, 14210

Make and Model of PID: RAE Systems PGM-7240 Date of Calibration: Mar 12, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Processing	PCE	2600	U	PCE	4000	☒
Processing	Ex-it	11	U	isopropanol, 1,1-difluoroethane	4000	☐
Processing	Rust-go	14	U	hydrofluoric acid	4000	☐
Processing	Clorox bleach	16	U	none listed	4000	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes Were there any elevated PID readings taken on site? ☐ Yes ☒ Products with COC?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 2408A Building Name: 2408A Building
Address: 2408A Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: FULL TIME Floor Material: CARPET
☒ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?
Alternate Heat Source: _____ ☒ Is there smoking in the building?
☒ Air Fresheners? Description/Location of Air Freshener: air spray used daily
☒ Cleaning Products Used Recently?: Description of Cleaning Products: dry cleaning products
☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____
☒ New Carpet or Furniture? Location of New Carpet/Furniture: pertaining to process equipment
☒ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: within the entire building
☐ Recent Painting/Staining? Location of New Painting: _____
☒ Solvent or Chemical Odors? Describe Odors (if any): PCE
☒ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: PCE
☒ Recent Pesticide/Rodenticide? Description of Last Use: Redenticide for rats

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:
On-site dry cleaning activities conducted daily

☐ Any Prior Testing For Radon? If So, When?: _____
☒ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: MOSTLY CLOUDY Outdoor Temperature: 34 °F
Current Building Use: DRY CLEANER Barometric Pressure: 29.85 in(hg)
Product Inventory Complete? ☒ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Building Code: 2408A

Address: 2075 Seneca St Buffalo, NY 14210

Sampling Information

Sampler Name(s): Eric Alongi

Sampler Company Code: OBGSYR

Sample Collection Date: Mar 20, 2014

Date Samples Sent To Lab: Mar 21, 2014

Sample Chain of Custody Number:

Outdoor Air Sample Location ID: AA-032014

SUMMA Canister Information

Sample ID:	2408A-IA1-032014	2408A-SS2-03	2408A-IA2-03	2408A-SS1-03	AA-032014
Location Code:	2408A-AI	2408A-AS	2408A-AI	2408A-AS	2408A-AO
Location Type:	FIRST FLOOR	SUBSLAB	FIRST FLOOR	SUBSLAB	OUTDOOR
Canister ID:	10112	09759	10256	9961	10826
Regulator ID:	5204	3703	3251	5200	10644
Matrix:	Indoor Air	Subslab Soil	Indoor Air	Subslab Soil	Ambient Outd
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA

Sampling Area Info

Slab Thickness (inches):		5		5	
Sub-Slab Material:		DIRT		DIRT	
Sub-Slab Moisture:		DRY		DRY	
Seal Type:		CLAY		CLAY	
Seal Adequate?:	☐	☒	☐	☒	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	03/20/2014 8:30	03/20/2014	03/20/2014	03/20/2014	03/20/2014
Vacuum Gauge Start:	-29.34	-29.61	-29.43	-29.25	-29.35
Sample End Date/Time:	03/20/2014 15:5	03/20/2014	03/20/2014	03/20/2014	03/20/2014
Vacuum Gauge End:	-6.59	-7.18	-16.5	-7.95	-6.24
Sample Duration (hrs):	7.5	7.5	7.5	7.5	7.5
Vacuum Gauge Unit:	in (hg)	in (hg)	in (hg)	in (hg)	in (hg)

Sample QA/QC Readings

Vapor Port Purge:	☐	☒	☐	☒	☐
Purge PID Reading:		1800		1900	
Purge PID Unit:		ppb		ppb	
Tracer Test Pass:	☐	☒	☐	☒	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



Multiple Vapor Intrusion Sampling Form

Collector(s)	<u>E. ALONGET</u>	Barometric Pressure (in Hg)	<u>29.85/29.81</u>	Building Survey/Chemical Inventory Form Completed?	<u>YES</u>
Structure Location	<u>2408A</u>	Humidity(%)	<u>80%</u>	Photographs Taken?	<u>YES</u>
Project #	<u>51353</u>	Sample Location(s)	<u>1ST Floor</u>	Weather Conditions	<u>Overcast, Snow, Windy</u>
Project Name	<u>Restroom Cleaners</u>			MD Meter ID	<u>11006</u>
Site Code				Date of Calibration	<u>3/12/14</u>
Date					

Indoor Air Sample	Sub-structure Sample	Order Sample Type: SS-DUP IA-DUP Indoor Air 2	Ambient
Sample ID <u>2408A-IA1-032014</u>	Sample ID <u>2408A-SS2-032014</u>	Sample ID <u>2408A-IA2-032014</u>	Sample ID <u>AA-032014</u>
Canister ID <u>10112</u>	Canister ID <u>09759</u>	Canister ID <u>10256</u>	Canister ID <u>10826</u>
Flow Controller ID <u>5204</u>	Flow Controller ID <u>3703</u>	Flow Controller ID <u>3251</u>	Flow Controller ID <u>10644</u>
Date/Time start <u>3/20/14 0830</u>	Date/Time start <u>3/20/14 0830</u>	Date/Time start <u>3/20/14 0830</u>	Date/Time start <u>3/20/14 0835</u>
Date/Time end <u>3/20/14 1559</u>	Date/Time end <u>3/20/14 1559</u>	Date/Time end <u>3/20/14 1559</u>	Date/Time end <u>3/20/14 1609</u>
Gauge prior to start <u>0</u>	Gauge prior to start <u>0</u>	Gauge prior to start <u>0</u>	Gauge prior to start <u>0</u>
Start Pressure <u>-29.34</u>	Start Pressure <u>-29.61</u>	Start Pressure <u>-29.43</u>	Start Pressure <u>-29.35</u>
End Pressure <u>-6.59</u>	End Pressure <u>7.18</u>	End Pressure <u>16.5</u>	End Pressure <u>-6.24</u>
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F) <u>~65°</u>	Air temperature (°F) <u>~65°</u>	Air temperature (°F) <u>~65°</u>	Air temperature (°F) <u>~34°</u>
PID reading <u>~3800 ppb</u>	PID reading <u>1800 ppb</u>	PID reading <u>4000 ppb</u>	PID reading <u>0</u>
In. tubing used <u>NA</u>	In. tubing used <u>~36"</u>	In. tubing used <u>NA</u>	In. tubing used <u>NA</u>
Tubing purged? <u>NA</u>	Tubing purged? <u>NA</u>	Tubing purged? <u>NA</u>	Tubing purged? <u>NA</u>
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor <u>YES</u>	Noticeable odor <u>NA</u>	Noticeable odor <u>NO</u>	Noticeable odor <u>NO</u>
Floor slab depth <u>NA</u>	Floor slab depth <u>~5"</u>	Floor slab depth <u>NA</u>	Distance to road (ft) <u>~20'</u>
Intake height above floor (in) <u>~38"</u>	Intake depth below floor (in) <u>~1"</u>	Intake depth below floor (in) <u>~35"</u>	Direction to site building (°) <u>~4'</u>
Floor surface type <u>Concrete</u>	Floor surface type <u>Concrete</u>	Floor surface type <u>Tile</u>	Distance to site building (ft) <u>~4'</u>
Room <u>Cleaner</u>	Room <u>Cleaner</u>	Room <u>SWAN</u>	Intake height above ground level (in) <u>~48"</u>
Story/level <u>1ST</u>	Story/level <u>1ST</u>	Story/level <u>1ST</u>	Wind Direction <u>20</u>
SS-Moisture(Circle) <u>Dry</u>	SS-Moisture(Circle) <u>Dry</u>		Wind Speed <u>20</u>
SS-Material(Circle) <u>Dir</u>	SS-Material(Circle) <u>Dir</u>		
Analytical methods required <u>TO-15</u>	Tracer Gas(if applicable) <u>H₂</u>	Comments	
Laboratory used <u>TA</u>	Chamber concentration <u>80%</u>		
Sample Duration (Intended) <u>24</u>	Purge Concentration <u>1500 ppb</u>		



CONF'D

Multiple Vapor Intrusion Sampling Form

Project # 5133 Project Name Subway Clean Site Code 3/20/14 Date 3/20/14

Collector(s) EA Structure Location 2408A Sample Location(s) 1st Flr

Barometric Pressure (in Hg) 29.81/29.81 Humidity (%) 80% Weather Conditions Overcast, Snow, Windy

Building Survey/Chemical Inventory Form Completed? Yes Photographs Taken? Yes PID Meter ID 11006 Date of Calibration 8/2/14

Indoor Air Sample		Sub-structure Sample		Circle Sample Type SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	<u>2408A-SS1-032014</u>	Sample ID		Sample ID	
Canister ID		Canister ID	<u>9961</u>	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	<u>5200</u>	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	<u>3/20/14 930</u>	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	<u>3/20/14 1559</u>	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	<u>0</u>	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	<u>-29.25</u>	Start Pressure		Start Pressure	
End Pressure		End Pressure	<u>-7.95</u>	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	<u>~65</u>	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	<u>1900 ppb</u>	PID reading		PID reading	
In. tubing used		In. tubing used	<u>~36"</u>	In. tubing used		In. tubing used	
Tubing purged?		Tubing purged?	<u>Yes</u>	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	<u>No</u>	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	<u>~5"</u>	Floor slab depth		Distance to road (ft)	
Intake depth below floor (in)		Intake depth below floor (in)	<u>~1"</u>	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	<u>Tile</u>	Floor surface type		Distance to site building (ft)	
Room		Room	<u>STWAK</u>	Room		Intake height above ground level (in)	
Story/level		Story/level	<u>1st</u>	Story/level		Wind Direction	
SS-Moisture(Circle)		SS-Moisture(Circle)	<u>Dry</u> Damp Saturated	SS-Moisture(Circle)		Wind Speed	
SS-Material(Circle)		SS-Material(Circle)	<u>Dirt</u> Wood Stone Fill	SS-Material(Circle)			
Analytical methods required		Tracer Gas(if applicable)	<u>H/C</u>	Comments	<u>TB-032014 CAN 10418</u>		
Laboratory used		Chamber concentration	<u>75%</u>		<u>TB-032014 CAN 10380</u>		
Sample Duration (intended)		Purge Concentration	<u>1000 ppm</u>				

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Aronoff Date/Time Prepared 3/20/14

Preparer's Affiliation O'Brien + Gere Phone No. _____

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y / N

Last Name: Orlando First Name: Michael

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: ☒ Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Commercial</u>

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Dry Cleaner's

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 25 yrs old (new part)
45 yrs old (old part)

Is the building insulated? Y / (N)

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

Minimal

Infiltration into air ducts

NA

Air conditioning:

Central Air

Window units

☒ Open Windows

None

4

Are there air distribution ducts present?

Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

NA

1st Floor

Dry Cleaners

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y / ☒ N

b. Does the garage have a separate heating unit?

Y / ☒ N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y / ☒ N / NA

Please specify _____

d. Has the building ever had a fire?

Y / ☒ N When? _____

e. Is a kerosene or unvented gas space heater present?

Y / ☒ N Where? _____

f. Is there a workshop or hobby/craft area?

Y / ☒ N Where & Type? _____

g. Is there smoking in the building?

☒ Y / ☒ N How frequently? Daily in garage

h. Have cleaning products been used recently?

☒ Y / ☒ N When & Type? _____

i. Have cosmetic products been used recently?

Y/☒N When & Type? _____

5

j. Has painting/staining been done in the last 6 months?

Y/☒N Where & When? _____

k. Is there new carpet, drapes or other textiles?

☒/N Where & When? For Press/cleaning

l. Have air fresheners been used recently?

☒/N When & Type? Spray

m. Is there a kitchen exhaust fan?

Y/N If yes, where vented? NA

n. Is there a bathroom exhaust fan?

☒/N If yes, where vented? Outside

o. Is there a clothes dryer?

☒/N If yes, is it vented outside? ☒/N

p. Has there been a pesticide application?

☒/N When & Type? (For RATS)

Are there odors in the building?

☒/N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Perc

If yes, are their clothes washed at work?

☒/N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

No

Yes, use dry-cleaning infrequently (monthly or less)

Unknown

Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y/☒N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:

Public Water

Drilled Well

Driven Well

Dug Well

Other: _____

Sewage Disposal:

Public Sewer

Septic Tank

Leach Field

Dry Well

Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided and explained to residents? Y/N

6

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

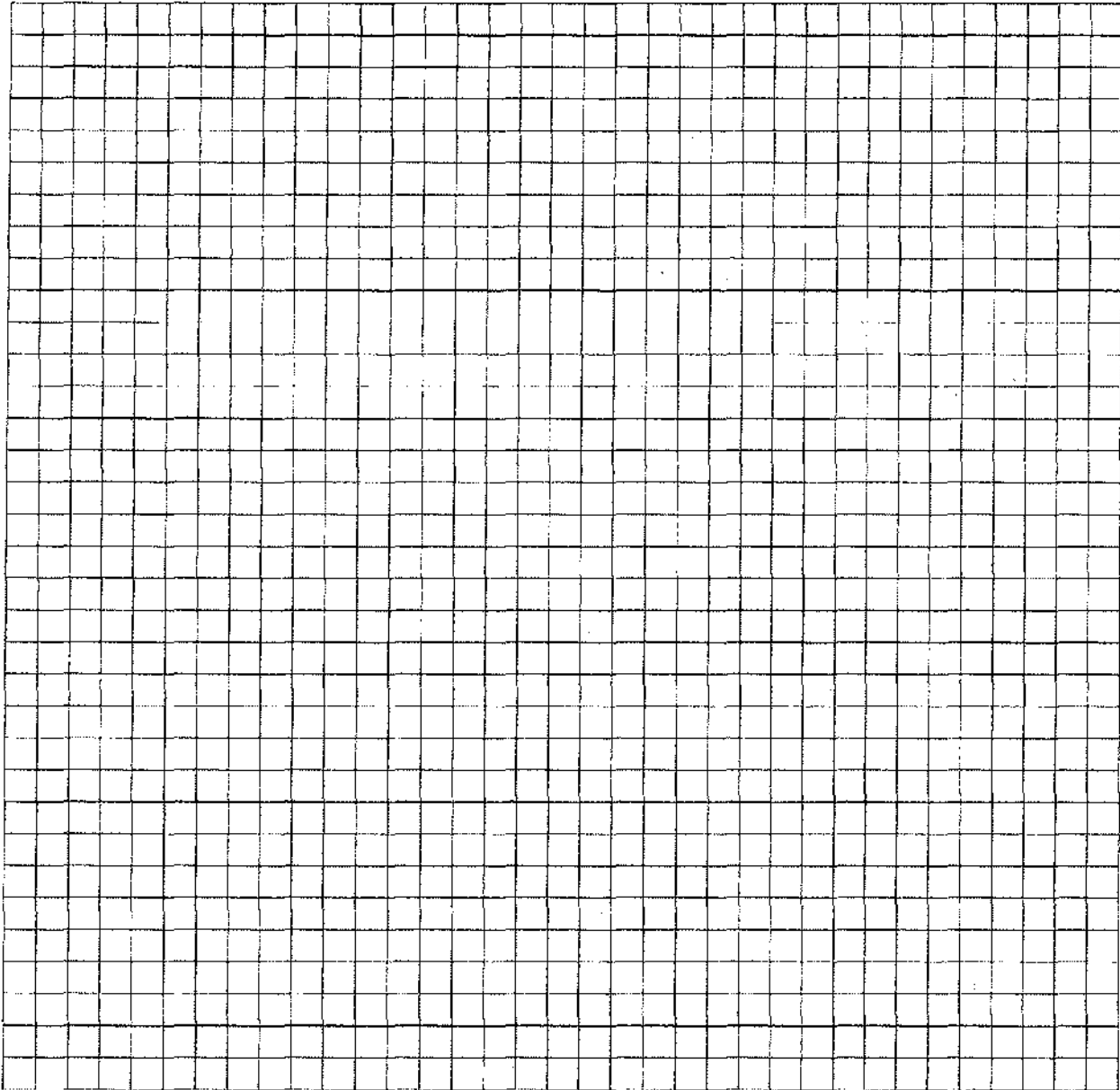
Basement:

First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
	Magic Starch	20 oz	U/uo			
	Ex-IT	11 oz	U	Isopropanol; 1,1-difluoroethane		
	Isomiracle Starch	1 gal	U			
	Antibacterial Hand Soap	7.5 oz	U			
	FAST Orange	1 gal	U			
	Scrub Free	32 oz	U			
	Lysol	22 oz	U			
	Shout	30 oz	U			
	Clorox bleach	16 oz	U			
	Pine Glaze	40 oz	U			
	2 gal Paint	2 gal	U			
	APOLY	1 gal	U			
	RustGo	14 oz	U	Hydrofluoric Acid		
	Polyspot adsorb	2 gal	U			
	Jinx Ink	16 oz	U			
	Street Tan	12 oz	U			
	V3	12 oz	D			
	STRAPAD	12 oz	U			
	PCE	20 gal	U	PCE		

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Soil Vapor Intrusion Sampling Records
Structure #3



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: 001
Building Code: 360E Building Name: 360E Building
Address: 360E Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Eric

Contact Information

Preparer's Name: Eric Alongi Phone No: _____
Preparer's Affiliation: O'Brien & Gere Company Code: ORGSYR
Purpose of Investigation: SVI Date of Inspection: Mar 17, 2014
Contact Name: Joshua Haugh Affiliation: MANAGER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 3 Number of Children: 0
☐ Occupant Interviewed? ☒ Owner Occupied? ☐ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: CAPE COD HOME
Number of Floors: 3 Approx. Year Construction: 1910 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building Tightness and Airflows (e.g., results of smoke tests):
Not tight - Air flow between floors

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 5 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 4 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 8
☐ Floor penetrations? Describe Floor Penetrations: _____
☒ Wall penetrations? Describe Wall Penetrations: Sewer, gas, water
Basement is: UNFINISHED Basement is: DRY ☒ Sumps/Drains? Water in Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): No major cracks observed
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: 360E Building Bldg Code: 360E Date: Mar 17, 2014

Bldg Address: 360E Apt/Suite No: _____

Bldg City/State/Zip: Buffalo NY, 14210

Make and Model of PID: Rae Systems PGM-7240 Date of Calibration: Mar 12, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Ultra tandil bleach	128	U	sodium hypochlorite	25	☐
Basement	Goof-off	5	U	xylene	25	☐
Basement	Westleys bleach off	32	U	sodium metasilicate	25	☐
Basement	Prestone de-icer	17	U	methyl alcohol, ethylene glycol	25	☐
Basement	X-O odor neutralizer	8	U	salicylate	25	☐
Basement	Spray nine	32	U	chloride	25	☐
Basement	One step grout sealer	15	U	hydrocarbon solvent, propane, isobutane	25	☐
Basement	After strip	16	U	1119-40-0, 627-93-0, 106-65-0, 000102-71-6	25	☐
Basement	Swiffer wet jet	34	U	solvents	25	☐
Basement	Pine-sol spray and mop	22	U	isopropanol	25	☐
Basement	Krylon spray paint	12	U	acetone, toluene, propane, butane, trimethylbenzene	25	☐
Basement	Parks furniture refinish	32	U	acetone, methyl alcohol, IPA, toluol	25	☐
Basement	Mr. Clean	40	U	sodium hypochlorite	25	☐
Basement	Oatey purple primer	4	U	MEK, acetone	2600	☐
Basement	Raid ant spray	16	U	permethrin	0	☐
Basement	Pro window cleaner	16	U	IPA	0	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☒ Yes Were there any elevated PID readings taken on site? ☒ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 360E Building Name: 360E Building
Address: 360E Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: SELDOM Floor Material: CEMENT
☐ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?
Alternate Heat Source: _____ ☐ Is there smoking in the building?
☒ Air Fresheners? Description/Location of Air Freshener: Candles on first floor
☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____
☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____
☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____
☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____
☐ Recent Painting/Staining? Location of New Painting: _____
☐ Solvent or Chemical Odors? Describe Odors (if any): _____
☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____
☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____
☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 30 °F
Current Building Use: CAPE COD HOME Barometric Pressure: 30.01 in(hg)
Product Inventory Complete? ☒ Yes ☐ No ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Building Code: 360E

Address:

Sampling Information

Sampler Name(s): Eric Alengi

Sampler Company Code: OBGSYR

Sample Collection Date: Mar 17, 2014

Date Samples Sent To Lab: Mar 18, 2014

Sample Chain of Custody Number:

Outdoor Air Sample Location ID: AA-031714

SUMMA Canister Information

Sample ID: 360E-IA-031714

360E-SS-031714

Location Code: 360E-AI

360E-AS

Location Type: BASEMENT

SUBSLAB

Canister ID: 10851

10420

Regulator ID: 10435

10150

Matrix: Indoor Air

Subslab Soil

Sampling Method: SUMMA AIR SAMPLI

SUMMA AIR SA

Sampling Area Info

Slab Thickness (inches): 4

Sub-Slab Material: DIRT

Sub-Slab Moisture: DRY

Seal Type: CLAY

Seal Adequate?: ☐

☒

☐

☐

☐

Sample Times and Vacuum Readings

Sample Start Date/Time: 03/17/2014 11:00

03/17/2014 11:00

Vacuum Gauge Start: -29.32

-28.4

Sample End Date/Time: 03/18/2014 11:00

03/18/2014 11:00

Vacuum Gauge End: -2.56

-4.61

Sample Duration (hrs): 23.5

23.5

Vacuum Gauge Unit: in (hg)

in (hg)

Sample QA/QC Readings

Vapor Port Purge: ☐

☒

☐

☐

☐

Purge PID Reading:

0

Purge PID Unit:

ppb

Tracer Test Pass: ☐

☒

☐

☐

☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Multiple Vapor Intrusion Sampling Form

Project # 31353 Collector(s) CA/KK Barometric Pressure (in Hg) _____ Building Survey/Chemical Inventory Form Completed? YES
 Project Name BESTWAY Structure Location 3LOE Humidity(%) _____ Photographs Taken? YES
 Site Code _____ Sample Location(s) BASMENT Weather Conditions Mostly Sunny PID Meter ID: 11006
 Date 3/10-3/19/14 Date of Calibration 3/12/14

Indoor Air Sample		Sub-structure Sample		Circle Sample Type:		Ambient	
SS-DUP	IA-DUP	Indoor Air					
Sample ID	<u>36DE-IA-031714</u>	Sample ID	<u>36DE-SS-031714</u>	Sample ID		Sample ID	
Canister ID	<u>10851</u>	Canister ID	<u>10420</u>	Canister ID		Canister ID	
Flow Controller ID	<u>10435</u>	Flow Controller ID	<u>10150</u>	Flow Controller ID		Flow Controller ID	
Date/Time start	<u>3/10/14 1133</u>	Date/Time start	<u>3/17/14 1133</u>	Date/Time start		Date/Time start	
Date/Time end	<u>3/18/14 1100</u>	Date/Time end	<u>3/18/14 1100</u>	Date/Time end		Date/Time end	
Gauge prior to start	<u>0</u>	Gauge prior to start	<u>0</u>	Gauge prior to start		Gauge prior to start	
Start Pressure	<u>-27.32</u>	Start Pressure	<u>-28.40</u>	Start Pressure		Start Pressure	
End Pressure	<u>-2.56</u>	End Pressure	<u>-4.61</u>	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	<u>~59°</u>	Air temperature (°F)	<u>NA</u>	Air temperature (°F)		Air temperature (°F)	
PID reading	<u>0</u>	PID reading	<u>0</u>	PID reading		PID reading	
in. tubing used	<u>NA</u>	in. tubing used	<u>~38"</u>	in. tubing used		in. tubing used	
Tubing purged?	<u>NA</u>	Tubing purged?	<u>YES</u>	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	<u>No</u>	Noticeable odor	<u>No</u>	Noticeable odor		Noticeable odor	
Floor slab depth	<u>NA</u>	Floor slab depth	<u>~4"</u>	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	<u>~47"</u>	Intake depth below floor (in)	<u>~1"</u>	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	<u>Concrete</u>	Floor surface type	<u>Concrete</u>	Floor surface type		Distance to site building (ft)	
Room	<u>BASMENT</u>	Room	<u>BASMENT</u>	Room		Intake height above ground level (in)	
Story/level	<u>Lowest</u>	Story/level	<u>Lowest</u>	Story/level		Wind Direction	
SS-Moisture(Circle)	<u>Dry</u> Damp Saturated	SS-Moisture(Circle)	<u>Dry</u> Damp Saturated	SS-Moisture(Circle)		Wind Speed	
SS-Material(Circle)	<u>Dirt</u> Wood Stone Fill	SS-Material(Circle)	<u>Dirt</u> Wood Stone Fill	SS-Material(Circle)			
Analytical methods required	<u>To-15</u>	Tracer Gas(if applicable)	<u>HE</u>	Comments			
Laboratory used	<u>TA</u>	Chamber concentration	<u>8070</u>				
Sample Duration (Intended)	<u>24</u>	Purge Concentration	<u>1000 ppm</u>				

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Anoucy Date/Time Prepared 5/17/94

Preparer's Affiliation OSHS + EA Phone No. _____

Purpose of Investigation SVI

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 3 Age of Occupants 63; 61; 38

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: ☒ Y ☐ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

☒ Residential
☐ Industrial

☐ School
☐ Church

☐ Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
<u>Cape Cod</u>	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2 + attic

Building age 100+

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Typical

Airflow near source

NA

Outdoor air infiltration

Minimal

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N / not applicable Not Accessible

Basement/Lowest level depth below grade: 5 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

No major cracks observed

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
		Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: GAS

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

4

Are there air distribution ducts present? Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement Storage

1st Floor K. Kitchen, Living room, Dining Room, 1st fl. Bedroom, bath

2nd Floor 4 bedrooms, 1 bathroom

3rd Floor _____

4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y N Where? _____
- f. Is there a workshop or hobby/craft area? Y N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? _____
- h. Have cleaning products been used recently? Y N When & Type? _____

i. Have cosmetic products been used recently?

Y ☒ N When & Type? _____

5

j. Has painting/staining been done in the last 6 months?

Y ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles?

Y ☒ N Where & When? _____

l. Have air fresheners been used recently?

☒ Y / N When & Type? Candles

m. Is there a kitchen exhaust fan?

Y ☒ N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

☒ Y / N If yes, where vented? _____

o. Is there a clothes dryer?

☒ Y / N If yes, is it vented outside? ☒ Y / N

p. Has there been a pesticide application?

Y ☒ N When & Type? _____

Are there odors in the building?

Y ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

No

☒ Yes, use dry-cleaning infrequently (monthly or less)

Unknown

Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided and explained to residents? Y/N

6

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

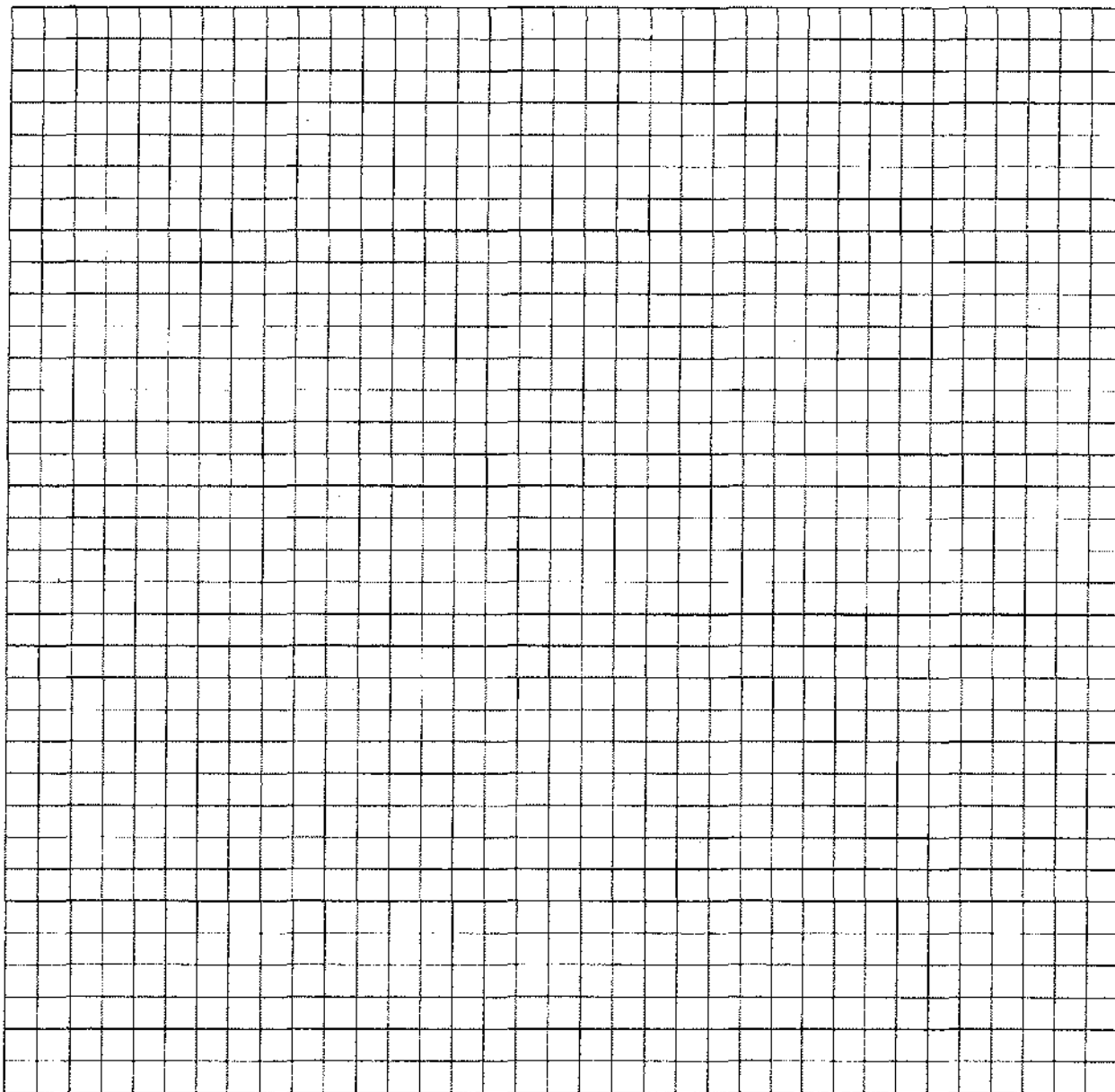
Basement:

First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	NA - Not Accessible/ Chemical Ingredients NL = None Listed	Field Instrument Reading (units) <u>PPB</u>	Photo** <u>Y/N</u>
Basement	BEHR INTERIOR ENAMEL	1/4 GAL	Good	NL	0	Y
	BEHR PORCH/PATIO FLOOR PAINT	1 GAL	Good	NL	0	Y
	BEHR MASONRY, STUCCO + BRICK PAINT	1/4 GAL	Good	NL	0	Y
	DUTCHMAN SATIN INTERIOR	1/4 GAL	Good	NL	0	Y
	VALVE SATIN FINISH	1/4 GAL	Good	NL	0	Y
	RUSTOLUM ENAMEL	11 QT	Good	NL	0	Y
	RUSTOLUM SATIN	1 QT	Good	NL	0	Y
	Thompson's Waterproof	1 GAL	Good	NA	0	Y
	ORTEX Purple Primer	1/4 GAL	Good	MEX, ACETONE	2600	Y
	FAST WALL Paper Remover	1 Pint	Good	SURFACTANTS	0	Y
	Amur All	10 OZ	Good	NL	0	Y
	All Fabric Refresher	27 OZ	Good	NL	0	Y
	Martins Spray Cleaner	32 OZ	Good	NL	0	Y
	Krylon Plastic Spray Paint	16 OZ	Good	NL	0	Y
	ProWashers Cleaner	16 OZ	Good	IPA	0	Y
	Raid Ant Spray	16 OZ	Good	PERMETHRIN	0	Y
	Hot Shot Roach + Ant	16 OZ	Good	PERMETHRIN	0	N
	Armor All Multipurpose	16 OZ	Good	NL	0	Y
	Naval Jelly Rust Remover	12 OZ	Good	NL	0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

SUBJECT	SHEET	BY	DATE	JOB NO.
360 E - Chemical Inventory	1/		3/17/14	(basement)

Product	Size	Cont.	Ingredients	PID
Arm & Hammer Dryer Sheets	3 boxes	U		0.0
Snuggly Dryer Sheets	1 box	U		0.0
Ajax Dish Soap	16 oz	U		2.5
Ultra Tandil bleach	1 gal	U	Sodium Hypochlorite	
Era Laundry Detergent	2 x 50 oz	U		
Go Gone	8 oz	U		
Simple Green Cleaner	160 oz	U		
Swanitol Ultra Fabric Softener	60 oz	U		
Snuggly Fabric Softener	50 oz	U		
Ultra Power Fabric Softener	60 oz	U		
Gout off	5 oz	U	Xylene	
Wrestlers Bleach White	32 oz	U	Sodium metasilicate	
Prestone De-Icer	17 oz	N	methyl alcohol; ethylene glycol	
Pro Shot Re-newing	16 oz	U		
Protect All Wax	16 oz	U		
Starbrite RV Wash & Wax	16 oz	U		
Orange Glo	22 oz	U		
X-O odor neutralizer	8 oz	U	Saltic acid	
Spray Nine	32 oz	U	Chloride	
Resolite	40 oz	U		
Starbrite RV Awning Cleaner	32 oz	U		
One Step Gout Sealer	15 oz	U	(Hydrocarbon solvents)	
Kasey Kahne ProTant	16 oz	U	propane; isobutane	
Final Detail Wax	20 oz	U		
Warren Power Steering Fluid	12 oz	U		
Franklin Baseball Glove Conditioner	4 oz	U		
Murphy Oil	16 oz	U		
Turtle Wax	14 oz	N		
TILElab Sealer	6 oz	U		
ASTER STRIP	16 oz	U	(111 9140-0) (625-93-0) (1065-550)	
~~Sticker~~			(600102-71-6)	
Silicone Water Guard	10.5 oz	U		
Swiffer wetjet	33.8 oz	U	"solvents"	
Tear Mender Adhesive	16 oz	U		
Quick Shine	27 oz	U		
Orange Glow	16 oz	U		

Storage closet

SUBJECT	SHEET	BY	DATE	JOB NO.
---------	-------	----	------	---------

Product		Size	Cond.	Ingredients	RED
Storage Cabinet	Pine-Sol Spray & Mop	22oz	U	Isopropanol	25
	X-O Odor Neutralizer	32oz	U		
	Krylon Spray Paint	12oz	U	→ {Acetone, Toluene, Propane,}	
	Par-Ko Furniture Refinish	32oz	U	{Butane, Trimethyl Benzene}	
				→ {Acetone, Methyl Alcohol}	
				{Isopropyl Alcohol, Toluol}	
	Downy Wrinkle Releaser	16.9oz	U		
	Pro-Shot Industrial Re-Newing	32oz	U		
	Bounce Fabric Refresher & Scent		U		
	Coleman's Power-Wax oil	1qt	N		
	Mop & Glo	32oz	U		
	Mr. Clean	40	U	Sodium Hydroxide	✓

Property Owner Acknowledgment and Permission for Air Sampling:

Please return to Benjamin Rung, NYSDEC, 625 Broadway, 12th Floor, Albany, NY 12233
or by email to bwring@gw.dec.state.ny.us, or by fax (518) 402-9819

Signature: _____

Address: _____

Date: 2/18/14

Print Name: _____

Property Owner Questionnaire:

Please answer to the best of your knowledge, leave blank if information is unknown.

Contact Information

Homeowner Name: _____

Occupant Name (if different from homeowner): _____

Street Address: _____

Daytime Telephone: (_____) _____

Evening Telephone: _____

What time is most convenient to call? ☒ Daytime ☐ Evening ☐ Weekend

Building Information (circle all that apply)

Year constructed: 100 yrs +

Number of floors below grade: 1 (full basement) / crawl space / slab on grade

Number of floors at or above grade: 1 1/2

Basement (or lowest floor) floor construction: (concrete) / dirt / floating / stone
other (specify): _____

Condition of floor (cracks, water stains, etc.): CRACKS, rough surface

Basement sump present? (Yes) / No Sump pump? (Yes) / No Water in sump? Yes / (No)

Is the lower level occupied? Yes / (No) If yes, how often? Basement is for storage

Is there a radon system in place? Yes / (No)

Soil Vapor Intrusion Sampling Records
Structure #2



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bostway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 383E Building Name: 383E Building
Address: _____ Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Contact Information

Preparer's Name: Eric Alongi Phone No: _____
Preparer's Affiliation: O'Brien & Gere Company Code: OBGSYR
Purpose of Investigation: SVI Date of Inspection: Mar 18, 2014
Contact Name: Joshua Haugh Affiliation: MANAGER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 1 Number of Children: _____
☐ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): MEDIUM
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: 2-FAMILY HOME
Number of Floors: 3 Approx. Year Construction: _____ ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows (e.g., results of smoke tests):
Air flow between floors

Foundation Description

Foundation Type: BASEMENT-PARTIAL Foundation Depth (bgs): 4 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 3 Unit: INCHES
Foundation Wall Material: _____ Foundation Wall Thickness: 8 Unit: INCHES
☐ Floor penetrations? Describe Floor Penetrations: _____
☒ Wall penetrations? Describe Wall Penetrations: Utility penetrations
Basement is: _____ Basement is: _____ ☐ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): No major cracks observed
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: _____
Water Htr Vent Location: OUTSIDE Dryer Vent Location: _____



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: 383E Building Bldg Code: 383E Date:

Bldg Address: 383E Apt/Suite No:

Bldg City/State/Zip: Buffalo NY, 14210

Make and Model of PID: Date of Calibration:

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Paint thinner	32	U	CAS 8052-41-3	0	☐
Basement	Fasuloy resin finish	32	U	Aromatic and aliphatic hydrocarbons	0	☐
Basement	Flecto Spray paint	12.75	D	None listed	0	☐
Basement	Painters touch spray paint	12	U	Toluene, acetone, xylene	0	☐
Basement	Goof off	4.5	U	Xylene	0	☐
Basement	Gas can	256	U	Gasoline	0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☒ Yes Were there any elevated PID readings taken on site? ☒ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 383E Building Name: 383E Building
Address: 383E Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: SELDOM Floor Material: CEMENT

☐ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☒ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 42 °F

Current Building Use: 2-FAMILY HOME Barometric Pressure: 30.09 in(hg)

Product Inventory Complete? ☒ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Building Code: 383E

Address: 383E Buffalo, NY 14210

Sampling Information

Sampler Name(s): Eric Alongi

Sampler Company Code: OBGSYR

Sample Collection Date: Mar 18, 2014

Date Samples Sent To Lab: Mar 19, 2014

Sample Chain of Custody Number:

Outdoor Air Sample Location ID: AA-031814

SUMMA Canister Information

Sample ID:	383E-IA-031814	383E-SS-031814			
Location Code:	383E-AI	383E-AS			
Location Type:	BASEMENT	SUBSLAB			
Canister ID:	09682	9783			
Regulator ID:	10159	10160			
Matrix:	Indoor Air	Subslab Soil			
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA			

Sampling Area Info

Slab Thickness (inches):		3			
Sub-Slab Material:		DIRT			
Sub-Slab Moisture:		DRY			
Seal Type:		CLAY			
Seal Adequate?:	☐	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	03/18/2014 15:00	03/18/2014 15:00			
Vacuum Gauge Start:	-29.58	-29.37			
Sample End Date/Time:	03/19/2014 14:00	03/19/2014 14:00			
Vacuum Gauge End:	-3.97	-5.02			
Sample Duration (hrs):	23.5	23.5			
Vacuum Gauge Unit:	in (hg)	in (hg)			

Sample QA/QC Readings

Vapor Port Purge:	☐	☒	☐	☐	☐
Purge PID Reading:		0			
Purge PID Unit:		ppb			
Tracer Test Pass:	☐	☒	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



Multiple Vapor Intrusion Sampling Form

Project #	31353	Collector(s)	BA/KK	Barometric Pressure (in Hg)	30.07	Building Survey/Chemical Inventory Form Completed?	Y
Project Name	Bestway	Structure Location	383 E	Humidity (%)		Photographs Taken?	Y
Site Code		Sample Location(s)	Basement	Weather Conditions	Sunny	PID Meter ID	
Date	7/18-7/19/14					Date of Calibration	

Indoor Air Sample		Sub-structure Sample		Grde Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	383E-IA-031814	Sample ID	383E-SS-031814	Sample ID		Sample ID	4A-031814
Canister ID	09642	Canister ID	9783	Canister ID		Canister ID	10213
Flow Controller ID	10159	Flow Controller ID	10160	Flow Controller ID		Flow Controller ID	09843
Date/Time start	3/18 1525	Date/Time start	3/18/14 1525	Date/Time start		Date/Time start	3/18 1523
Date/Time end	3/19 1453	Date/Time end	3/19/14 1453	Date/Time end		Date/Time end	3/19 1453
Gauge prior to start	-1	Gauge prior to start	0	Gauge prior to start		Gauge prior to start	0
Start Pressure	-29.58	Start Pressure	-29.37	Start Pressure		Start Pressure	-29.33
End Pressure	-3.97	End Pressure	-5.02	End Pressure		End Pressure	-2.96
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	66°	Air temperature (°F)	66°	Air temperature (°F)		Air temperature (°F)	55
PID reading	0	PID reading	0	PID reading		PID reading	0
In. tubing used	NA	In. tubing used	~38"	In. tubing used		In. tubing used	NA
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	NA
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor		Noticeable odor	No
Floor slab depth	NA	Floor slab depth	~3"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~44"	Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room	Basement	Rooms	Basement	Room		Intake height above ground level (in)	
Story/level	Lowest	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture (Circle)	Dry Damp Saturated			Wind Speed	
		SS-Material (Circle)	Gr Wood Stone Fill				
Analytical methods required	T0-15	Tracer Gas (if applicable)	He	Comments			
Laboratory used	TA	Chamber concentration	75%				
Sample Duration (intended)	24	Purge Concentration	1400ppm				

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name ESU Account Date/Time Prepared _____

Preparer's Affiliation O'Brien & Gere Phone No. _____

Purpose of Investigation SUI INVESTIGATION

1. OCCUPANT:

Interviewed: Y/☒N

Last Name: _____ First Name: _____

Address: 383E

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/☒N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

☒ Residential

☐ Industrial

☐ School

☐ Church

☐ Commercial/Multi-use

☐ Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	<u>2-Family</u>	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 2 Family

If the property is commercial, type?

Business Type(s) NA

Does it include residences (i.e., multi-use)? Y / N If yes, how many? 2 Family

Other characteristics:

Number of floors 2 + attic

Building age unknown

Is the building insulated? Y / N

How air tight? Tight Average Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Yes

Airflow near source

NA

Outdoor air infiltration

Minimal

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace ^{dirt} slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 4 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Drain under/near stairs

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
		Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: NAT GAS

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning:

Central Air

Window units Open Windows

None

4

Are there air distribution ducts present? Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Storage</u>
1 st Floor	<u>Living</u>
2 nd Floor	<u>Living</u>
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y N

b. Does the garage have a separate heating unit?

Y N NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y N / NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? UNKNOWN

e. Is a kerosene or unvented gas space heater present?

Y / N Where? _____

f. Is there a workshop or hobby/craft area?

Y N Where & Type? _____

g. Is there smoking in the building?

Y / N How frequently? _____

h. Have cleaning products been used recently?

Y N When & Type? _____

i. Have cosmetic products been used recently?

Y ☒ N When & Type? _____

5

j. Has painting/staining been done in the last 6 months?

Y / N Where & When? Unknown

k. Is there new carpet, drapes or other textiles?

Y / N Where & When? Unknown

l. Have air fresheners been used recently?

☒ Y / N When & Type? _____

m. Is there a kitchen exhaust fan?

☒ Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

☒ Y / N If yes, where vented? _____

o. Is there a clothes dryer?

Y ☒ N If yes, is it vented outside? Y / N

p. Has there been a pesticide application?

Y ☒ N When & Type? _____

Are there odors in the building?

Y ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:

Public Water

Drilled Well

Driven Well

Dug Well

Other: _____

Sewage Disposal:

Public Sewer

Septic Tank

Leach Field

Dry Well

Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided and explained to residents? Y/N

6

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

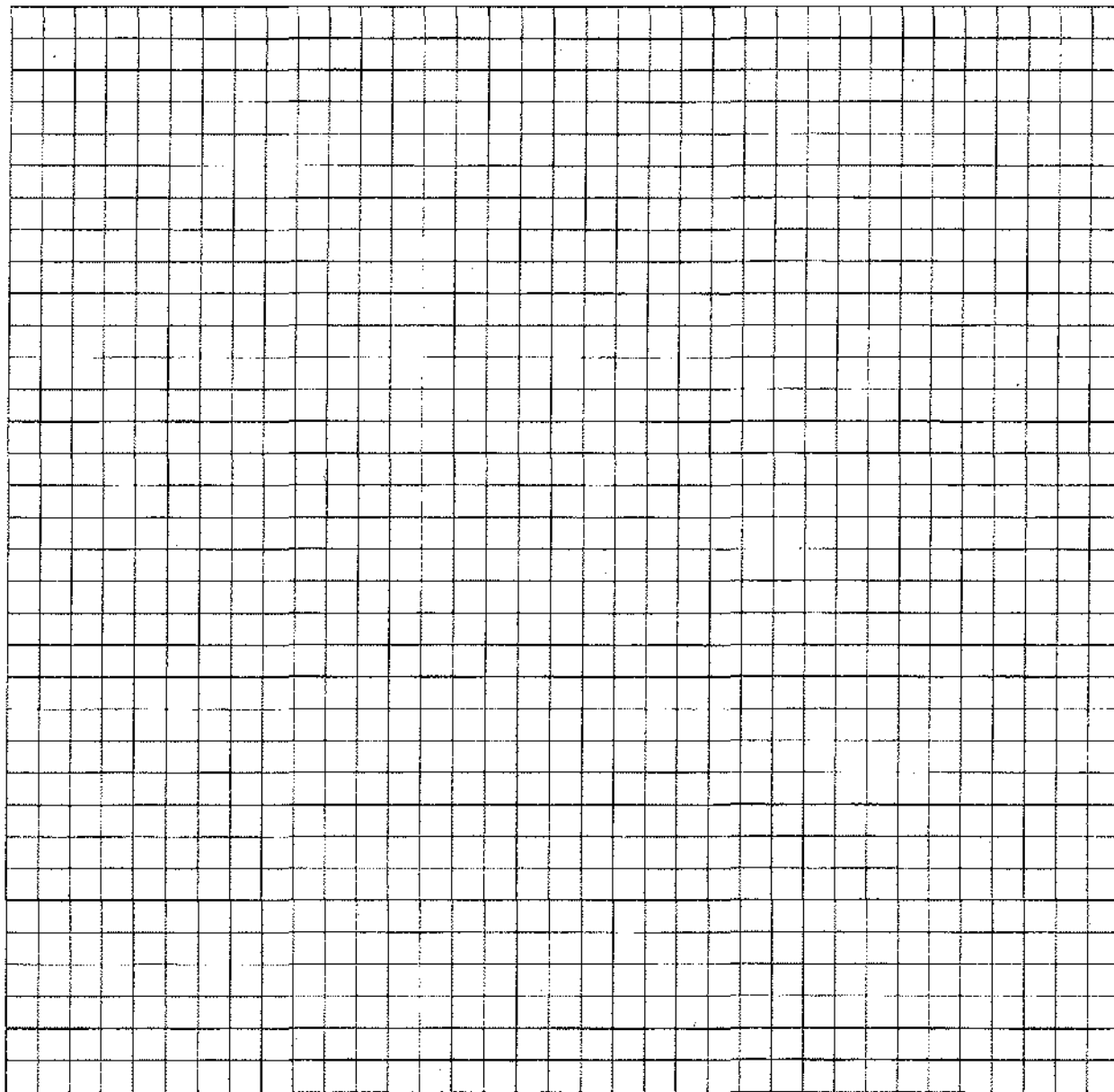
Basement:

First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

Property Owner Acknowledgment and Permission for Air Sampling:

Please return to Benjamin Rung, NYSDEC, 625 Broadway, 12th Floor, Albany, NY 12233
or by email to bwrung@gw.dec.state.ny.us, or by fax (518) 402-9819

Signature: _____

Address: _____

Date: 3/17/14

BUFFALO NY.

Print Name: _____

14210

Property Owner Questionnaire:

Please answer to the best of your knowledge, leave blank if information is unknown.

Contact Information

Homeowner Name: _____

Occupant Name (if different from homeowner): _____

Street Address: _____

Daytime Telephone: (____) - ____ - ____

Evening Telephone: (____) - ____ - ____

What time is most convenient to call? ☒ Daytime ☐ Evening ☐ Weekend

Building Information (circle all that apply)

Year constructed: 1940

Number of floors below grade: _____ (full basement) crawl space / slab on grade)

Number of floors at or above grade: 2

Basement (or lowest floor) floor construction concrete / dirt / floating / stone
other (specify): _____

Condition of floor cracks, water stains, etc.: _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Is the lower level occupied? Yes / No If yes, how often? _____

Is there a radon system in place? Yes / No

Soil Vapor Intrusion Sampling Records
Structure #1



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 387E Building Name: 387E Building
Address: 387E Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Contact Information

Preparer's Name: Eric Alongi Phone No: _____
Preparer's Affiliation: O'Brien & Gere Company Code: OBGSYR
Purpose of Investigation: SVI Date of Inspection: Mar 17, 2014
Contact Name: Joshua Raugh Affiliation: MANAGER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 1 Number of Children: _____
☐ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): MEDIUM
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: 2-FAMILY HOME
Number of Floors: 3 Approx. Year Construction: 1920 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows (e.g., results of smoke tests):
Air flow between floors

Foundation Description

Foundation Type: BASEMENT-PARTIAL Foundation Depth (bgs): 3 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 3 Unit: INCHES
Foundation Wall Material: _____ Foundation Wall Thickness: 8 Unit: INCHES
☐ Floor penetrations? Describe Floor Penetrations: _____
☒ Wall penetrations? Describe Wall Penetrations: Utility penetrations
Basement is: _____ Basement is: _____ ☐ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): No major cracks observed
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: STEAM RADIANT Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: 387E Building Bldg Code: 387E Date: _____
Bldg Address: 387E Apt/Suite No: _____
Bldg City/State/Zip: Buffalo NY, 14210
Make and Model of PID: _____ Date of Calibration: _____

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Bleach	128	U	hypochlorite bleach	0	☐
Basement	Dutch boy acrylic enamel	11	U	xylene, acetone	0	☐
Basement	Workline enamel	10	U	propane, xylene	0	☐
Basement	Honeywell insulating foam	8	U	polymeric isocyanate prepolymer	0	☐
Basement	Pyroll de-icer	11.5	U	methyl alcohol, ethylene glycol	0	☐
Basement	Tix Battery Cleaner	15	U	ethanol, propane, isobutane	0	☐
Basement	Gas line antifreeze	12	U	methyl alcohol	0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☒ Yes Were there any elevated PID readings taken on site? ☒ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 387E Building Name: 387E Building
Address: 387E Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: SELDOM Floor Material: CEMENT
☐ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?
Alternate Heat Source: _____ ☒ Is there smoking in the building?
☐ Air Fresheners? Description/Location of Air Freshener: _____
☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____
☒ Cosmetic Products Used Recently?: Description of Cosmetic Products: Daily
☒ New Carpet or Furniture? Location of New Carpet/Furniture: 1 year ago, first floor
☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____
☐ Recent Painting/Staining? Location of New Painting: _____
☐ Solvent or Chemical Odors? Describe Odors (if any): _____
☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____
☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____
☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 62 °F
Current Building Use: 2-FAMILY HOME Barometric Pressure: 30.09 in(hg)
Product Inventory Complete? ☒ Yes ☐ No ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Building Code: 387E

Address: 383E Buffalo, NY 14210

Sampling Information

Sampler Name(s): Eric Alongi

Sampler Company Code: OBGSYR

Sample Collection Date: Mar 17, 2014

Date Samples Sent To Lab: Mar 18, 2014

Sample Chain of Custody Number:

Outdoor Air Sample Location ID: AA-031714

SUMMA Canister Information

Sample ID:	387E-IA-031714	387E-SS-031714			
Location Code:	387E-AI	387E-AS			
Location Type:	BASEMENT	SUBSLAB			
Canister ID:	10098	09615			
Regulator ID:	10465	10301			
Matrix:	Indoor Air	Subslab Soil			
Sampling Method:	SUMMA AIR SAMPLING	SUMMA AIR SAMPLING			

Sampling Area Info

Slab Thickness (inches):		3			
Sub-Slab Material:		DIRT			
Sub-Slab Moisture:		DRY			
Seal Type:		CLAY			
Seal Adequate?	☐	☒	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	03/17/2014 15:00	03/17/2014 15:00			
Vacuum Gauge Start:	-29.38	-29.16			
Sample End Date/Time:	03/18/2014 14:00	03/18/2014 14:00			
Vacuum Gauge End:	-3.82	-2.82			
Sample Duration (hrs):	23.5	23.5			
Vacuum Gauge Unit:	in (hg)	in (hg)			

Sample QA/QC Readings

Vapor Port Purge:	☐	☒	☐	☐	☐
Purge PID Reading:		0			
Purge PID Unit:		ppb			
Tracer Test Pass:	☐	☒	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Multiple Vapor Intrusion Sampling Form

Project #	<u>5353</u>	Collector(s)	<u>EA/KIC</u>	Barometric Pressure (in Hg)	<u>30.09 / 29.72</u>	Building Survey/Chemical Inventory Form Completed?	<u>Yes</u>
Project Name	<u>BESAWAY</u>	Structure Location	<u>387E</u>	Humidity (%)		Photographs Taken?	<u>Yes</u>
Site Code		Sample Location(s)	<u>Basement</u>	Weather Conditions	<u>Sunny</u>	PID Meter ID	
Date	<u>3/17-3/18/14</u>					Date of Calibration	

Indoor Air Sample	Sub-structure Sample	SS-DUP	IA-DUP	Indoor Air	Ambient
Sample ID <u>387E-IA-031714</u>	Sample ID <u>387E-SS-031714</u>	Sample ID <u>IA-031714</u>			Sample ID
Canister ID <u>10095</u>	Canister ID <u>0965</u>	Canister ID <u>0965</u>			Canister ID
Flow Controller ID <u>10065</u>	Flow Controller ID <u>10301</u>	Flow Controller ID <u>10063</u>			Flow Controller ID
Date/Time start <u>3/17/14 1547</u>	Date/Time start <u>3/17/14 1547</u>	Date/Time start <u>3/17/14 1547</u>			Date/Time start
Date/Time end <u>3/18/14 1452</u>	Date/Time end <u>3/18/14 1452</u>	Date/Time end <u>3/18/14 1452</u>			Date/Time end
Gauge prior to start <u>0</u>	Gauge prior to start <u>0</u>	Gauge prior to start <u>0</u>			Gauge prior to start
Start Pressure <u>-29.38</u>	Start Pressure <u>-29.16</u>	Start Pressure <u>-29.33</u>			Start Pressure
End Pressure <u>-3.82</u>	End Pressure <u>-2.82</u>	End Pressure <u>-4.29</u>			End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:			Complete all that apply:
Air temperature (°F) <u>~60°</u>	Air temperature (°F) <u>~60°</u>	Air temperature (°F) <u>~60°</u>			Air temperature (°F)
PID reading <u>0</u>	PID reading <u>0</u>	PID reading <u>0</u>			PID reading
In. tubing used <u>NA</u>	In. tubing used <u>~40"</u>	In. tubing used <u>NA</u>			In. tubing used
Tubing purged? <u>NA</u>	Tubing purged? <u>Yes</u>	Tubing purged? <u>NA</u>			Tubing purged?
For indoor location:	For indoor location:	For indoor location:			For outdoor location:
Noticeable odor <u>NO</u>	Noticeable odor <u>NO</u>	Noticeable odor <u>NO</u>			Noticeable odor
Floor slab depth <u>NA</u>	Floor slab depth <u>~3"</u>	Floor slab depth <u>NA</u>			Distance to road (ft)
Intake height above floor (in) <u>~38"</u>	Intake depth below floor (in) <u>~1"</u>	Intake depth below floor (in) <u>~38"</u>			Direction to site building (°)
Floor surface type <u>Concrete</u>	Floor surface type <u>Concrete</u>	Floor surface type <u>Concrete</u>			Distance to site building (ft)
Room <u>Basement</u>	Room <u>Basement</u>	Room <u>Basement</u>			Intake height above ground level (in)
Story/level <u>Lower</u>	Story/level <u>Lower</u>	Story/level <u>Lower</u>			Wind Direction
SS-Moisture(Circle) <u>Dry</u> <u>Damp</u> <u>Saturated</u>	SS-Material(Circle) <u>Brick</u> <u>Wood</u> <u>Stone</u> <u>Fill</u>				Wind Speed
Analytical methods required <u>TU-15</u>	Tracer Gas(if applicable) <u>He</u>	Comments			
Laboratory used <u>TA</u>	Chamber concentration <u>75%</u>				
Sample Duration (Intended) <u>24</u>	Purge Concentration <u>100 ppm</u>				

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Aronoff Date/Time Prepared _____

Preparer's Affiliation OSHA + GH Phone No. 585-298-2385

Purpose of Investigation SVI

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: NA

Number of Occupants/persons at this location 5 Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: (Y) / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	<u>2-Family</u>	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 2

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? ☒ Y ☐ N If yes, how many? 2

Other characteristics:

Number of floors 2 + att. C

Building age 1920

Is the building insulated? ☒ Y ☐ N

How air tight? ☒ Tight ☐ Average ☐ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

YES

Airflow near source

NA

Outdoor air infiltration

Plenum

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 3' (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply -- note primary)

<u>Hot air circulation</u> <u>(K)</u>	Heat pump	Hot water baseboard
Space Heaters	<u>Stream radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: NAT GAS

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning:

Central Air

Window units

Open Windows

None

4

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

1st Floor 3 bedrooms, Kitchen, Living room, Dining room, Bath

2nd Floor 3 bedrooms, Kitchen, Living room, Dining room, Bath

3rd Floor Attic

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / (N)

b. Does the garage have a separate heating unit?

Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / N / (NA)

Please specify Gas Pressure washer
in basement

d. Has the building ever had a fire?

(N) / N When? 50 yrs ago

e. Is a kerosene or unvented gas space heater present?

Y / N Where? _____

f. Is there a workshop or hobby/craft area?

Y / (N) Where & Type? _____

g. Is there smoking in the building?

Y / (N) How frequently? _____

h. Have cleaning products been used recently?

Y / (N) When & Type? _____

i. Have cosmetic products been used recently?

☒ Y ☐ N When & Type? Daily

5

j. Has painting/staining been done in the last 6 months?

Y ☒ ☐ N Where & When? _____

k. Is there new carpet, drapes or other textiles?

☒ Y ☐ N Where & When? 1 yr ago - new carpet

l. Have air fresheners been used recently?

Y ☒ ☐ N When & Type? _____

m. Is there a kitchen exhaust fan?

Y ☒ ☐ N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

☒ Y ☐ N If yes, where vented? outside

o. Is there a clothes dryer?

☒ Y ☐ N If yes, is it vented outside? ☒ Y ☐ N

p. Has there been a pesticide application?

Y ☒ ☐ N When & Type? _____

Are there odors in the building?

Y ☒ ☐ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y ☒ ☐ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y ☒ ☐ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

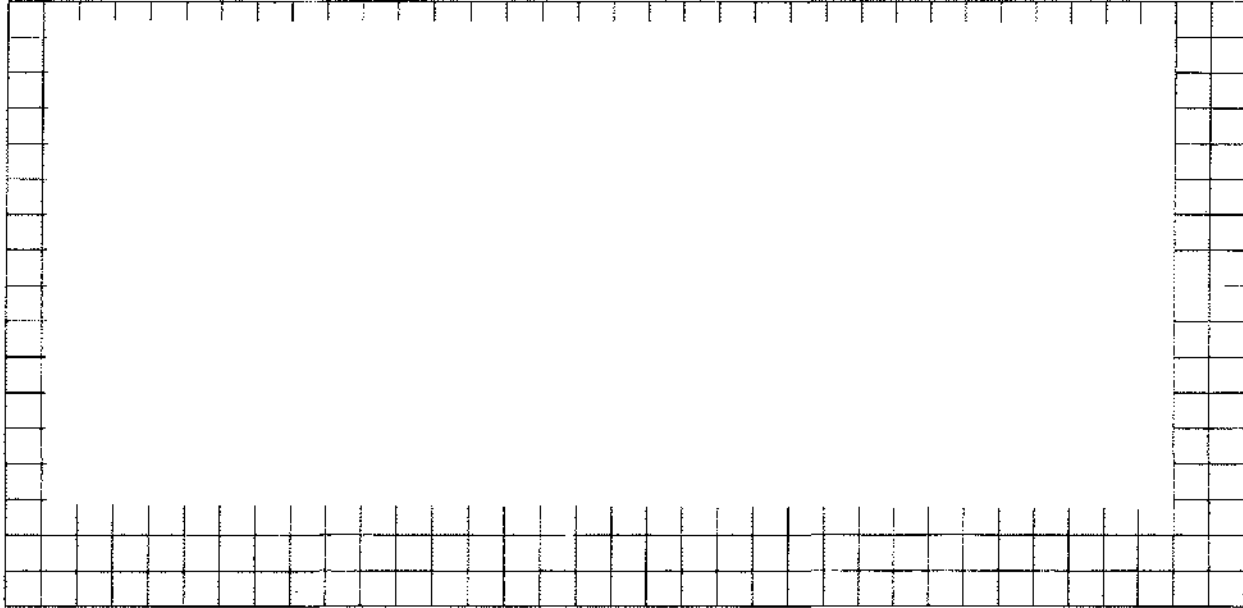
d. Relocation package provided and explained to residents? Y/N

6

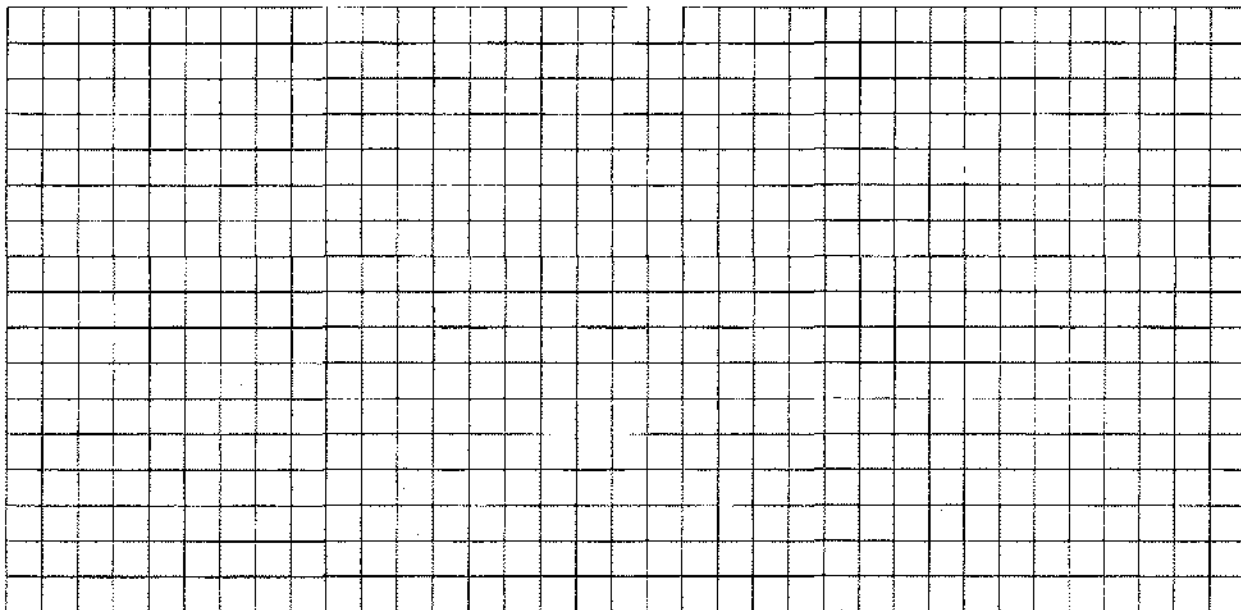
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



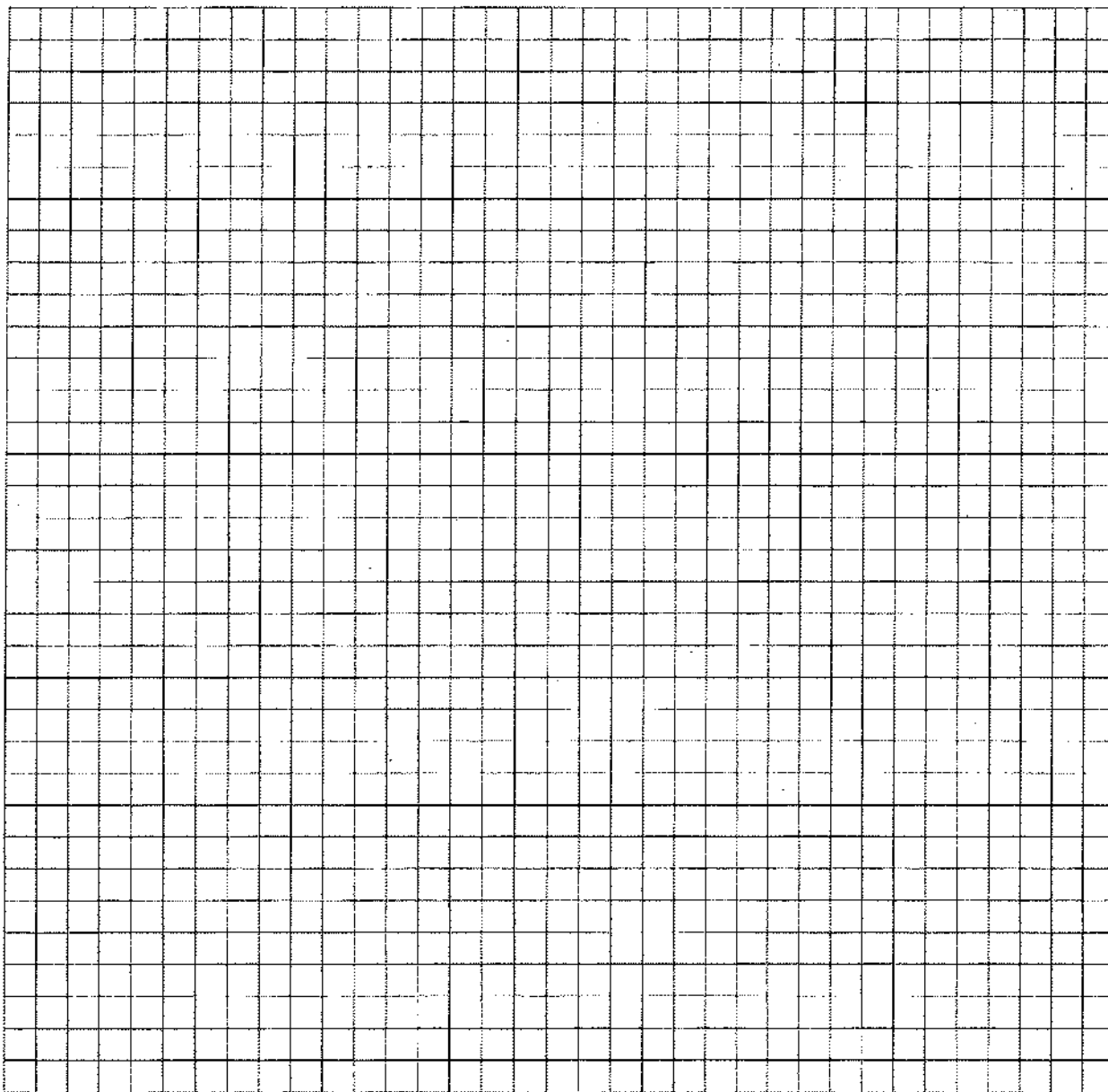
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
	Mechanics Concrete Sealant	64oz	U	NA		
	Relaxolux Dish Soap	12oz	U			
	Mr Clean	20oz	N ^{ew} -UO			
	Power House Oven Cleaner	3x 16oz	UO	Sodium Hydroxide		
	LAs TOTALLY Awesome	32oz; 64oz	U	2-butoxy ethanol		
	Blue Thick Bleach	750 mL	U	Hypochlorite bleach		
	Magic Spray Enamel	9oz	U	Toluene, Methylene, Pet. Dist.		
	Dutch Boy Acrylic Enamel	11oz	U	Xylene; acetone		
	Workline Enamel	10oz	U	propane, Xylene		
	Out Wood Stain	12oz	U			
	CLR Bath: Kitchen	26oz	U			
	T. Gelco sealer	1qt	U	Glycol ether		
	Minwax Polyshades	1qt				
	Champion De-Icer	2x 12oz	U			
	Honeywell Insulating Foam	8oz	UO	Polymeric Isocyanate Prepolymer		
	WB-40	5.5oz 12oz	U			
	Pyroil De-Icer	11.5oz	U	methyl alcohol, Ethylene Glycol		
	GTP MD-80	5.5oz	U	Petrol. Dist.		
	Lynx Battery Cleaner	15oz	U	Bicarbonate; 2-Butoxy ethanol; Propane; Isobutane		

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
	2-cycle Engine oil	2x 2.6oz	U			
	Gas Line Anti Freeze	12oz	UO	Methyl Alcohol		
	Propane fuel	16.4oz	U	Propane		
	Spectracide grass killer	1gal	UO			
	Wend-a-gone	32oz	U			
	ALL laundry detergent	52oz	U			
	Bleach	2qt	U	Sodium Hypochlorite		
	Wisk laundry detergent	2x 45.5oz	U			
	Wool Wash	32oz	U			
	PrivaShield Spectra	33.8oz	U			
	Shurt	650ml	U			
	FAST orange Hand Cleaner	1.8L	U			
	Mineral Spirits	1qt	U	Petrol. Dist.		
	Fabric Softener Sheets	40	U			
	Primer Paint	10gal	U			
	TELE LAB Sealer	16oz	U			

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Property Owner Acknowledgment and Permission for Air Sampling:

Please return to Benjamin Rung, NYSDEC, 625 Broadway, 12th Floor, Albany, NY 12233
or by email to brung@pw.dec.state.ny.us, or by fax (518) 402-9819.

Signature: _____ Address: _____
Date: 2-21-2014 BFLD - N.Y. 19210
Print Name: _____

Property Owner Questionnaire:

Please answer to the best of your knowledge, leave blank if information is unknown.

Contact Information

Homeowner Name: _____

Occupant Name (if different from homeowner): _____

Street Address: _____

Daytime Telephone: (_____) _____ Evening Telephone: (_____) _____

What time is most convenient to call? 6 Daytime 7 Evening _____ Weekend

Building Information (circle all that apply)

Year constructed: 1920

Number of floors below grade: _____ (full basement / crawl space / slab on grade)

Number of floors at or above grade: 2

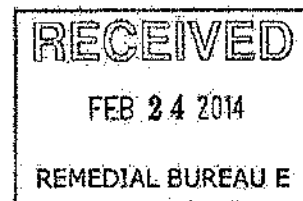
Basement (or lowest floor) floor construction: concrete / dirt / floating / stone
other (specify): _____

Condition of floor (cracks, water stains, etc.): Good

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Is the lower level occupied? Yes / No If yes, how often? At All Time (Rad Room)

Is there a radon system in place? Yes / No



Soil Vapor Intrusion Sampling Records
Structure #4



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: OU1
Building Code: 354Y Building Name: 354Y Building
Address: 354Y Apt/Suite No: _____
City: Buffalo State: NY Zip: 14210 County: Erie

Contact Information

Preparer's Name: Eric Alongi Phone No: _____
Preparer's Affiliation: O'Brien & Gere Company Code: OBGSYR
Purpose of Investigation: SVI Date of Inspection: Mar 17, 2014
Contact Name: Joshua Haugh Affiliation: MANAGER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 4 Number of Children: _____
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): MEDIUM
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: 2-FAMILY HOME
Number of Floors: 3 Approx. Year Construction: 1910 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows (e.g., results of smoke tests):
Air flow between floors

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 3 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 4 Unit: INCHES
Foundation Wall Material: POURED CONCRETE Foundation Wall Thickness: _____ Unit: _____
☐ Floor penetrations? Describe Floor Penetrations: _____
☒ Wall penetrations? Describe Wall Penetrations: Sewer, Gas, Water
Basement is: UNFINISHED Basement is: DRY ☐ Sumps/Drains? Water in Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.): Good
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: 354Y Building Bldg Code: 354Y Date: Mar 17, 2014
Bldg Address: 354Y Apt/Suite No: _____
Bldg City/State/Zip: Buffalo NY, 14210
Make and Model of PID: Rae Systems PGM-7240 Date of Calibration: Mar 12, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PiD Reading	COC Y/N?
Basement	Arm & Hammer Laundry Soap	150	U	None Listed	0	☐
Basement	XTRA Laundry Soap	75	U	None Listed	0	☐
Basement	NCL - easy dab	32	U	ortho-phenol	0	☐
Basement	Latex paint	128	U	None Listed	0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☒ Yes Were there any elevated PID readings taken on site? ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Bestway Cleaners Site Code: 915219 Operable Unit: 001

Building Code: 354Y Building Name: 354Y Building

Address: 354Y Apt/Suite No: _____

City: Buffalo State: NY Zip: 14210 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: SELDOM Floor Material: CEMENT

☐ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: NONE ☐ Is there smoking in the building?

☒ Air Fresheners? Description/Location of Air Freshener: Plug-in, first floor

☐ Cleaning Products Used Recently? Description of Cleaning Products: _____

☒ Cosmetic Products Used Recently? Description of Cosmetic Products: Hair dye

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 30 °F

Current Building Use: 2-FAMILY HOME Barometric Pressure: 30.1 in(hg)

Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Building Code: 354Y

Address:

Sampling Information

Sampler Name(s): Eric Alongi

Sampler Company Code: OBGSYR

Sample Collection Date: Mar 17, 2014

Date Samples Sent To Lab: Mar 18, 2014

Sample Chain of Custody Number:

Outdoor Air Sample Location ID: AA-031714

SUMMA Canister Information

Sample ID:	354Y-IA-031714	354Y-SS-031714	SSD-031714	AA-031714	
Location Code:	354Y-AJ	354Y-AS	354Y-AS	354Y-AO	
Location Type:	BASEMENT	SUBSLAB	SUBSLAB	OUTDOOR	
Canister ID:	09524	09987	10405	10762	
Regulator ID:	4999	09551	3450	10151	
Matrix:	Indoor Air	Subslab Soil	Subslab Soil	Ambient Outd	
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA	

Sampling Area Info

Slab Thickness (inches):		4	4		
Sub-Slab Material:		DIRT	DIRT		
Sub-Slab Moisture:		DRY	DRY		
Seal Type:		CLAY	CLAY		
Seal Adequate?:	☐	☒	☒	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	03/14/2014 13:00	03/17/2014 00:00	03/17/2014 00:00	03/17/2014 00:00	
Vacuum Gauge Start:	-29.35	-29.31	-29.34	-29.33	
Sample End Date/Time:	03/18/2014 13:00	03/18/2014 00:00	03/18/2014 00:00	03/18/2014 00:00	
Vacuum Gauge End:	-5.58	-4.17	-4.17	-2.92	
Sample Duration (hrs):	23.5	23.5	23.5	23.5	
Vacuum Gauge Unit:	in (hg)	in (hg)	in (hg)	in (hg)	

Sample QA/QC Readings

Vapor Port Purge:	☐	☒	☒	☐	☐
Purge PID Reading:		0	0		
Purge PID Unit:		ppb	ppb		
Tracer Test Pass:	☐	☒	☒	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



Multiple Vapor Intrusion Sampling Form

Project #	51353	Collector(s)	EA/KSL	Barometric Pressure (in Hg)	30.10	Building Survey/Chemical Inventory Form Completed?	Yes
Project Name	BSTW44	Structure Location	354Y	Humidity (%)	~38%	Photographs Taken?	Yes
Site Code		Sample Location(s)	Basement	Weather Conditions	Sunny	PID Meter ID	11006
Date	3/17-3/18/14					Date of Calibration	3/2/14

Indoor Air Sample		Sub-structure Sample		Circle Sample Type SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	354Y-IA-031714	Sample ID	354Y-SS-031714	Sample ID	SSD-031714	Sample ID	AA-031714
Canister ID	09524	Canister ID	09487	Canister ID	10405	Canister ID	10762
Flow Controller ID	4999	Flow Controller ID	09551	Flow Controller ID	3450	Flow Controller ID	10151
Date/Time start	3/17/14 1337	Date/Time start	3/17/14 1337	Date/Time start	3/17/14 1337	Date/Time start	3/17/14 1340
Date/Time end	3/18/14 1300	Date/Time end	3/18/14 1300	Date/Time end	3/18/14 1300	Date/Time end	3/18/14 1259
Gauge prior to start	0	Gauge prior to start	0	Gauge prior to start	0	Gauge prior to start	-2
Start Pressure	-29.35	Start Pressure	-29.31	Start Pressure	-29.34	Start Pressure	-29.33
End Pressure	-5.58	End Pressure	-4.17	End Pressure	-4.17	End Pressure	-2.92
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~65°	Air temperature (°F)	~65°	Air temperature (°F)	~65°	Air temperature (°F)	30°
PID reading	0	PID reading	0	PID reading	0	PID reading	0
In. tubing used	NA	In. tubing used	~40"	In. tubing used	~40"	In. tubing used	NA
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?	YES	Tubing purged?	NA
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	No	Noticeable odor	No
Floor slab depth	NA	Floor slab depth	4"	Floor slab depth	~4"	Distance to road (ft)	~60'
Intake height above floor (in)	~38"	Intake depth below floor (in)	~1"	Intake depth below/above floor (in)	~1"	Direction to site building (°)	~6'
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type	Concrete	Distance to site building (ft)	
Room	Basement	Room	Basement	Room	Basement	Intake height above ground level (in)	~35"
Story/level	Lowest	Story/level	Lowest	Story/level	Lowest	Wind Direction	Variable
Analytical methods required	TO-15	SS-Moisture (Circle)	Dry	SS-Moisture (Circle)	Dry	Wind Speed	5-10 mph
Laboratory used	TA	Tracer Gas (if applicable)	Hc	Tracer Gas (if applicable)	Hc		
Sample Duration (intended)	24	Chamber concentration	70%	Chamber concentration	70%		
		Purge Concentration	900 ppm	Purge Concentration	900 ppm		
				Comments			

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Aronow Date/Time Prepared 3/17/00
Preparer's Affiliation O'Brien + Gere Phone No _____
Purpose of Investigation SF

1. OCCUPANT:**Interviewed:** Y / N

Last Name: _____ First Name: _____
Address: _____
County: _____
Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 4 Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)**Interviewed:** ☒ Y / ☐ N

Last Name: _____ First Name: _____
Address: _____
County: _____
Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS**Type of Building:** (Circle appropriate response)

☒ Residential
☐ Industrial

☐ School
☐ Church

☐ Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 2 residences

If the property is commercial, type? NO

Business Type(s) NA

Does it include residences (i.e., multi-use)? ☒ Y / N If yes, how many? 2

Other characteristics:

Number of floors 2 + attic

Building age 1910

Is the building insulated? ☒ Y / N

How air tight? Tight / Average / ☒ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Yes

Airflow near source

NA

Outdoor air infiltration

Minimal

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N (not applicable)

Basement/Lowest level depth below grade: 3 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Crack in Foundation wall in workshop

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

4

Are there air distribution ducts present?

☒ Y / ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Laundry / storage / workshop</u>
1 st Floor	<u>3 bedrooms, bath, kitchen, dining room</u>
2 nd Floor	<u>3 bedrooms, bath, kitchen, dining room</u>
3 rd Floor	<u></u>
4 th Floor	<u></u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y ☒ N

b. Does the garage have a separate heating unit?

Y / N / ☒ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / N / ☒ NA

Please specify —

d. Has the building ever had a fire?

Y ☒ N When? —

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where? —

f. Is there a workshop or hobby/craft area?

☒ Y ☐ N Where & Type? basement - workshop

g. Is there smoking in the building?

Y ☒ N How frequently? —

h. Have cleaning products been used recently?

Y ☒ N When & Type? —

i. Have cosmetic products been used recently?

☒ Y ☐ N When & Type? Hair dye

5

j. Has painting/staining been done in the last 6 months?

Y ☒ ☐ N Where & When? _____

k. Is there new carpet, drapes or other textiles?

Y ☒ ☐ N Where & When? _____

l. Have air fresheners been used recently?

☒ Y ☐ N When & Type? Plug-in

m. Is there a kitchen exhaust fan?

Y ☒ ☐ N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

Y ☒ ☐ N If yes, where vented? _____

o. Is there a clothes dryer?

☒ Y ☐ N If yes, is it vented outside? ☒ Y ☐ N

p. Has there been a pesticide application?

Y ☒ ☐ N When & Type? _____

Are there odors in the building?

Y ☒ ☐ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ Y ☐ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Unknown - Cleaner at assisted living
- Cleaner at school

If yes, are their clothes washed at work?

Y ☒ ☐ N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

☒ No

Yes, use dry-cleaning infrequently (monthly or less)

Unknown

Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y ☒ ☐ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:

☒ Public Water

☐ Drilled Well

☐ Driven Well

☐ Dug Well

Other: _____

Sewage Disposal:

☒ Public Sewer

☐ Septic Tank

☐ Leach Field

☐ Dry Well

Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided and explained to residents? Y/N

6

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

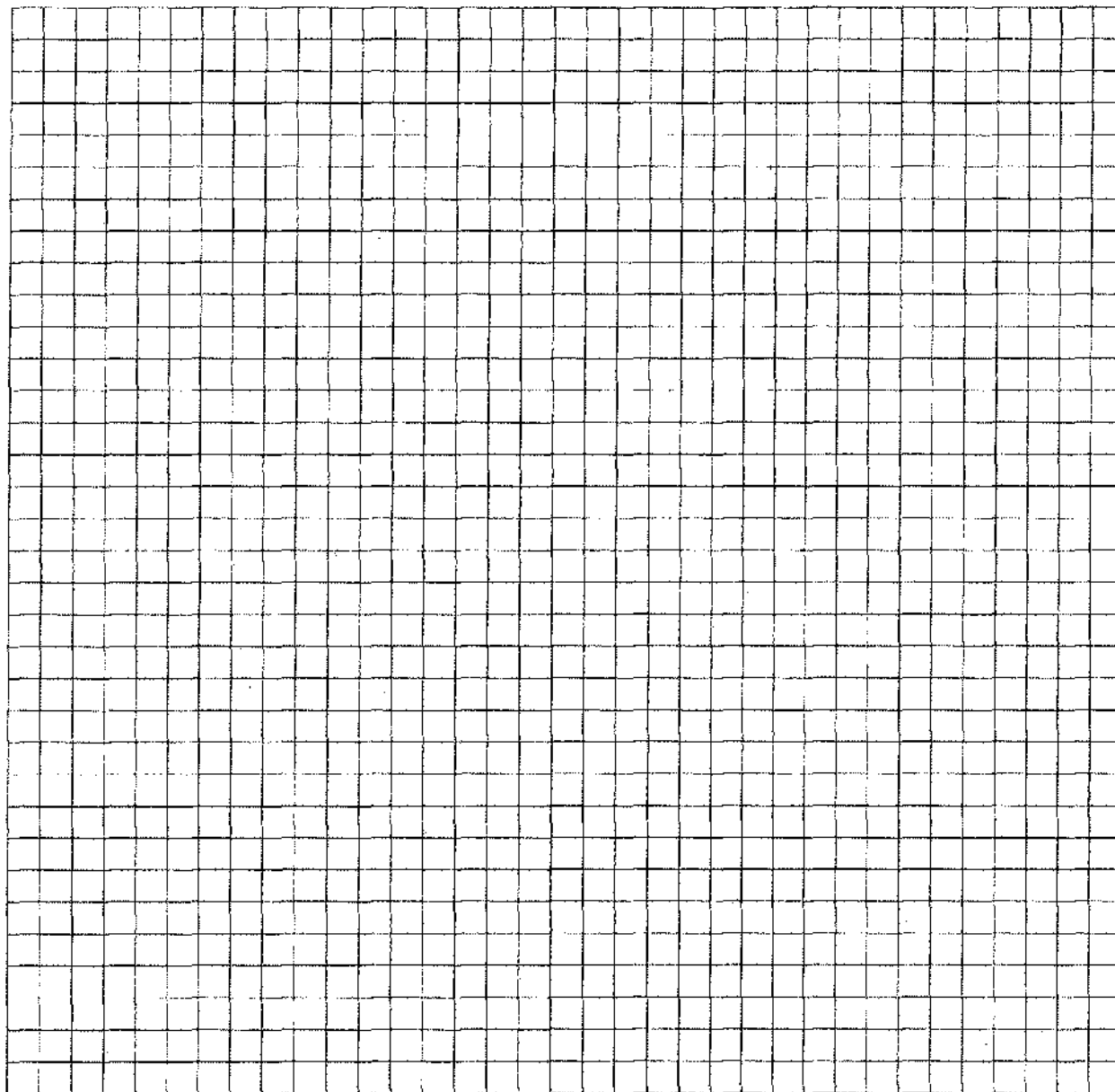
Basement:

First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Property Owner Acknowledgment and Permission for Air Sampling:

Please return to Benjamin Rung, NYSDEC, 625 Broadway, 12th Floor, Albany, NY 12233
or by email to bwrun@gw.dec.state.ny.us, or by fax (518) 402-9819

Signature: _____

Address: _____

Date: 2/16/14

Print Name: _____

Property Owner Questionnaire:

Please answer to the best of your knowledge, leave blank if information is unknown.

Contact Information

Homeowner Name: _____

Occupant Name (if different from homeowner): _____

Street Address: _____

Daytime Telephone: (_____) _____ Evening Telephone: (_____) _____

What time is most convenient to call? ☒ Daytime ☐ Evening ☐ Weekend

Building Information (circle all that apply)

Year constructed: 1910

Number of floors below grade: 1 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 2

Basement (or lowest floor) floor construction: concrete / dirt / floating / stone
other (specify): _____

Condition of floor (cracks, water stains, etc.): water stain / cracked

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Is the lower level occupied? Yes / No If yes, how often? _____

Is there a radon system in place? Yes / No

APPENDIX F

INVESTIGATION DERIVED WASTE DISPOSAL

Veolia ES Technical Solutions L. L. C.

WASTESTREAM INFORMATION PROFILE

				Disposal Code	
☐ Recertification					
Veolia ES Location	TONAWANDA NY OFFICE	TONAWANDA	NY	001 056	
Invoice Address	OFFICE	CITY	ST		

Veolia ES TSDP requested _____ Technology requested _____ Generator No. 606467 Generator EPA ID No. NYCESQG

1. Generator Name NYSDEC @ BESTWAY CLEANERS SITE Generator State No. _____
 Address 2075 SENECA STREET State Wastestream No. _____
 City BUFFALO State NY Country US ZIP 14210
 NAICS(SIC) Code 8999 Source G19 Origin 1 Form W409 System Type _____

2. Waste Name INVESTIGATION DERIVED DRILL SOILS Lab or Waste Area _____

3. Process Generating Waste
installation of soil borings/groundwater monitoring wells

4. Shipping Name NON-HAZARDOUS SOIL CUTTINGS
 Hazard Class NONE UN/NA No. NONE PG _____ RQ amt 0 lb Waste: N PIH: N IH: N DW: N P: N

RQ Des: 1. _____ 2. _____
 DOT Des: 1. _____ 2. _____

5. Waste Codes NONE
 Wastewater _____ Non Wastewater X Sub Category _____ Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>< 2</u>	a <u>< .8</u>	a <u>< 80</u>	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>2 - 5</u>	b <u>.8 - 1.0</u>	b <u>80 - 100</u>	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>5 - 9</u>	c <u>1.0</u>	c <u>100 - 140</u>	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>0</u> BTU/lb
d <u>9 - 12.5</u>	d <u>1.0 - 1.2</u>	d <u>140 - 200</u>	
e <u>> 12.5</u>	e <u>X</u> <u>> 1.2</u>	e <u>> 200</u>	Free Liquid <u>0</u> - <u>0</u> %
<u>5.0- 12.5</u> exact	<u>-</u> exact	f <u>X</u> no flash <u>-</u> exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s <u>X</u> solid	a <u>-</u> air reactive	r <u>-</u> radioactive or NRC regulated
m <u>-</u> semi-solid	w <u>-</u> water reactive	s <u>-</u> shock sensitive
l <u>-</u> liquid	c <u>-</u> cyanide reactive	t <u>-</u> temp sensitive
p <u>-</u> pumpable semi-solid	f <u>-</u> sulfide reactive	m <u>-</u> polymerization/monomer
f <u>-</u> flowable powder	e <u>-</u> explosive	n <u>-</u> OSHA carcinogen
g <u>-</u> gas	o <u>-</u> oxidizing acid	i <u>-</u> infectious
a <u>-</u> aerosol	p <u>-</u> peroxide former	h <u>-</u> inhalation hazard
r <u>-</u> pressurized liquid	Zone: <u>-</u>	
d <u>-</u> debris per 40 CFR 268.45		
h <u>-</u> sharps		
q <u>-</u> pumpable liquid		

Layers: | a - multilayered: | b - bi-layered: | c X single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	<u>-</u> high(syrup)	<u>-</u> high(syrup)	<u>-</u> high(syrup)	<u>VAR</u>
by	<u>-</u> medium(oil)	<u>-</u> medium(oil)	<u>-</u> medium(oil)	<u>-</u>
Layer:	<u>-</u> low(water)	<u>-</u> low(water)	<u>-</u> low(water)	<u>-</u>
	<u>X</u> solid	<u>-</u> solid	<u>-</u> solid	<u>-</u>

WASTESTREAM INFORMATION PROFILE

☐ Recertification Disposal Code

Veolia ES Location TONAWANDA NY OFFICE TONAWANDA NY 001 056
 Invoice Address OFFICE CITY ST

Veolia ES TSDf requested _____ Technology requested _____ Generator No. 606467 Generator EPA ID No. NYCESQG

1. Generator Name NYSDEC @ BESTWAY CLEANERS SITE Generator State No. _____
 Address 2075 SENECA STREET State Wastestream No. _____
 City BUFFALO State NY Country US ZIP 14210
 NAICS(SIC) Code 8999 Source G19 Origin 1 Form W119 System Type _____

2. Waste Name NON HAZ RINSE H2O W/PLASTIC SHEETING Lab or Waste Area _____

3. Process Generating Waste
investigation derived groundwater and drilling tool rinse wa

4. Shipping Name NON REGULATED MATERIAL
 Hazard Class NONE UN/NA No. NONE PG _____ RQ amt 0 lb Waste: N PIH: N IH: N DW: N P: N

RQ Des: 1. _____ 2. _____
 DOT Des: 1. _____ 2. _____

5. Waste Codes NONE
 Wastewater _____ Non Wastewater X Sub Category _____ Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>< 2</u>	a <u><.8</u>	a <u>< 80</u>	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>2 - 5</u>	b <u>.8 - 1.0</u>	b <u>80 - 100</u>	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>5 - 9</u>	c <u>1.0</u>	c <u>100 - 140</u>	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>0</u> BTU/lb
d <u>9 - 12.5</u>	d <u>1.0 - 1.2</u>	d <u>140 - 200</u>	
e <u>> 12.5</u>	e <u>> 1.2</u>	e <u>> 200</u>	Free Liquid <u>0</u> - <u>0</u> %
<u>5.0- 12.5 exact</u>	<u>.8- 1.2 exact</u>	f <u>X</u> no flash _____ exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s <u>X</u> solid	a _____ air reactive	r _____ radioactive or NRC regulated
m _____ semi-solid	w _____ water reactive	s _____ shock sensitive
l <u>X</u> liquid	c _____ cyanide reactive	t _____ temp sensitive
p _____ pumpable semi-solid	f _____ sulfide reactive	m _____ polymerization/monomer
f _____ flowable powder	e _____ explosive	n _____ OSHA carcinogen
g _____ gas	o _____ oxidizing acid	i _____ infectious
a _____ aerosol	p _____ peroxide former	h _____ inhalation hazard
r _____ pressurized liquid	Zone: _____	
d _____ debris per 40 CFR 268.45		
h _____ sharps		
q _____ pumpable liquid		

Layers: | a _____ multilayered: | b _____ bi-layered: | c _____ single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	_____ high(syrup)	_____ high(syrup)	_____ high(syrup)	<u>VAR</u>
by	_____ medium(oil)	_____ medium(oil)	_____ medium(oil)	_____
Layer:	_____ low(water)	_____ low(water)	_____ low(water)	_____
	_____ solid	_____ solid	_____ solid	_____

WASTESTREAM INFORMATION PROFILE

Used oil y/n ☐ HOC < 1000 ppm ☐ HOC > 1000 ppm ☐

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance, U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
WATER - USED TO CLEAN DRILLING EQUIPMENT	20.00	40.00 %
PLASTIC SHEETING USED TO CONTAIN WASH WATER	60.00	80.00 %

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
PCB Concentration .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream from an industry regulated under Benzene NESHA? Yes ☐ No ☒
If yes:
Is the wastestream subject to Notification/Control Requirements? Yes ☐ No ☒
Benzene Concentration .00 ppm
Does it contain >= 10% water? Yes ☐ No ☒
What is the TAB at your facility? .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
Volatile Organic Concentration .00 ppmw
CC Approved Analytical Method? Yes ☐ No ☒
Generator Knowledge? Yes ☐ No ☒
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. Container Information :

Packaging: 551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DM
 Type/Size:

Shipping Frequency: Units 1.00 Per Day ☐ Per Week ☐ Per Month ☐ Per Qtr ☐ Per Year ☐ One Time ☒
UOM DRUMS DESCRIPTION:

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Scott Dillman as Agent for New York State Department of Environmental Conservation
Name(Print or Type) 518-490-1791 Phone 2/27/14 Date
Scott Dillman Principal Geologist
Signature Title
As Agent for New York Department of Environmental Conservation

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WASTESTREAM INFORMATION PROFILE

Used oil y/n ☐ HOC < 1000 ppm ☐ HOC > 1000 ppm ☐

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,
U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
SOIL CUTTINGS	100.00	100.00 %

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
PCB Concentration 0.00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream from an industry regulated under Benzene NESHA? Yes ☐ No ☒
If yes:
Is the wastestream subject to Notification/Control Requirements? Yes ☐ No ☒
Benzene Concentration 0.00 ppm
Does it contain >= 10% water? Yes ☐ No ☒
What is the TAB at your facility? 0.00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
Volatile Organic Concentration 0.00 ppmw
CC Approved Analytical Method? Yes ☐ No ☒
Generator Knowledge? Yes ☐ No ☒
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. Container Information :

Packaging: 551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DM
Type/Size:

Shipping Frequency: Units 7.00 Per Day ☐ Per Week ☐ Per Month ☐ Per Qtr ☐ Per Year ☐ One Time ☒
UOM DRUMS DESCRIPTION:

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Scott Dillman as Agent for New York State Department of Environmental
Name(Print or Type) 518-490-1791 Phone 2/27/14 Date Conservation
Scott Dillman Signature Principal Geologist Title

As Agent for New York State Department of Environmental Conservation
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WASTESTREAM INFORMATION PROFILE

Disposal Code

☐ Recertification

Veolia ES Location TONAWANDA NY OFFICE TONAWANDA NY 001 056
 Invoice Address OFFICE CITY ST

Veolia ES TSDf requested _____ Technology requested _____ Generator No. 606467 Generator EPA ID No. NYCESQG

1. Generator Name NYSDEC @ BESTWAY CLEANERS SITE Generator State No. _____

Address 2075 SENECA STREET State Wastestream No. _____

City BUFFALO State NY Country US ZIP 14210

NAICS(SIC) Code 8999 Source G19 Origin 1 Form W119 System Type _____

2. Waste Name NON HAZ RINSE H2O W/PLASTIC SHEETING Lab or Waste Area _____

3. Process Generating Waste
investigation derived groundwater and drilling tool rinse wa

4. Shipping Name NON REGULATED MATERIAL

Hazard Class NONE UN/NA No. NONE PG _____ RQ amt 0 lb Waste: N PIH: N IH: N DW: N P: N

RQ Des: 1. _____ 2. _____

DOT Des: 1. _____ 2. _____

5. Waste Codes NONE

Wastewater _____ Non Wastewater X Sub Category _____ Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>< 2</u>	a <u>< .8</u>	a <u>< 80</u>	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>2 - 5</u>	b <u>.8 - 1.0</u>	b <u>80 - 100</u>	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>5 - 9</u>	c <u>1.0</u>	c <u>100 - 140</u>	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>0</u> BTU/lb
d <u>9 - 12.5</u>	d <u>1.0 - 1.2</u>	d <u>140 - 200</u>	
e <u>> 12.5</u>	e <u>> 1.2</u>	e <u>> 200</u>	Free Liquid <u>0</u> - <u>0</u> %
<u>5.0- 12.5 exact</u>	<u>.8- 1.2 exact</u>	f <u>X</u> no flash _____ exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s <u>X</u> solid	a _____ air reactive	r _____ radioactive or NRC regulated
m _____ semi-solid	w _____ water reactive	s _____ shock sensitive
l <u>X</u> liquid	c _____ cyanide reactive	t _____ temp sensitive
p _____ pumpable semi-solid	f _____ sulfide reactive	m _____ polymerization/monomer
g _____ flowable powder	e _____ explosive	n _____ OSHA carcinogen
f _____ gas	o _____ oxidizing acid	i _____ infectious
a _____ aerosol	p _____ peroxide former	h _____ inhalation hazard
r _____ pressurized liquid	Zone: _____	
d _____ debris per 40 CFR 268.45		
h _____ sharps		
q _____ pumpable liquid		

Halogens
 Br .0 - .0 % Bromine
 Cl .0 - .0 % Chlorine
 F .0 - .0 % Fluorine
 I .0 - .0 % Iodine

Layers: | a _____ multilayered: | b _____ bi-layered: | c _____ single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	<u>high(syrup)</u>	<u>high(syrup)</u>	<u>high(syrup)</u>	<u>VAR</u>
by	<u>medium(oil)</u>	<u>medium(oil)</u>	<u>medium(oil)</u>	
Layer:	<u>low(water)</u>	<u>low(water)</u>	<u>low(water)</u>	
	<u>solid</u>	<u>solid</u>	<u>solid</u>	

WASTESTREAM INFORMATION PROFILE

Used oil y/n ☐ HOC < 1000 ppm ☐ HOC > 1000 ppm ☐

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance, U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
WATER - USED TO CLEAN DRILLING EQUIPMENT	20.00	40.00 %
PLASTIC SHEETING USED TO CONTAIN WASH WATER	60.00	80.00 %

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
PCB Concentration .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes ☐ No ☒
If yes:
Is the wastestream subject to Notification/Control Requirements? Yes ☐ No ☒
Benzene Concentration .00 ppm
Does it contain >= 10% water? Yes ☐ No ☒
What is the TAB at your facility? .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
Volatile Organic Concentration .00 ppmw
CC Approved Analytical Method? Yes ☐ No ☒
Generator Knowledge? Yes ☐ No ☒
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. Container Information :

Packaging: 551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DM
 Type/Size:

Shipping Frequency: Units 1.00 Per Day ☐ Per Week ☐ Per Month ☐ Per Qtr ☐ Per Year ☐ One Time ☒
UOM DRUMS DESCRIPTION:

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Scott Dillman as Agent for New York State Department of Environmental Conservation
Name(Print or Type) 518-490-1791 Phone 2/27/14 Date
Scott Dillman Principal Geologist
Signature Title
As Agent for New York Department of Environmental Conservation

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:			MW9ASB MW9ASB-0911 480-49793-2 TALBUFF 480494191 WATER 11/7/2013 1/8/2014	MW111SB MW111SB-0911 480-49538-2 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW112SB MW112SB-0709 480-49538-1 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW112SB MW112SB-0911 480-49538-3 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW113SB MW113SB-0911 480-49425-2 TALBUFF 480494191 WATER 11/5/2013 1/8/2014	MW114SB MW114SB-0911 480-49944-1 TALBUFF 480494191 WATER 11/11/2013 1/8/2014
CAS NO.	COMPOUND		UNITS:		UNITS:						
	VOLATILES										
67-64-1	ACETONE	50	ug/kg	NS	ug/L	28 UJ	33 U	24 J	34 U	29 U	31 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	250	ug/kg	NS	ug/L	5.7 U	6.6 UJ	6.2 U	6.8 U	5.8 U	6.1 U
100-41-4	ETHYLBENZENE	1000	ug/kg	NS	ug/L	5.7 U	6.6 UJ	6.2 U	6.8 U	5.8 U	0.5 J
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	120	ug/kg	4,000,000	ug/L	28 U	33 U	16 J	34 U	29 U	31 U
75-09-2	METHYLENE CHLORIDE	50	ug/kg	NS	ug/L	14	6.6 U	6.2 U	6.8 U	9.9	6.1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	1300	ug/kg	14,000	ug/L	5.7 U	6.6 UJ	6.2 U	6.8 U	5.8 U	6.1 U
79-01-6	TRICHLOROETHYLENE (TCE)	470	ug/kg	10,000	ug/L	5.7 U	6.6 UJ	6.2 U	6.8 U	5.8 U	6.1 U
XYLENES	XYLENES, TOTAL	260	ug/kg	NS	ug/L	11 U	13 U	12 U	14 U	12 U	1.7 J

NS - No standard

U - Compound not detected

J - Estimated concentration below contract detection limit

14 - Detected compounds shown in bold font

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:			MW115SB MW115SB-0911 480-49793-3 TALBUFF 480494191 WATER 11/8/2013 1/8/2014	MW118SB MW118SB-1113 480-49425-1 TALBUFF 480494191 WATER 11/4/2013 1/8/2014
CAS NO.	COMPOUND		UNITS:		UNITS:		
	VOLATILES						
67-64-1	ACETONE	50	ug/kg	NS	ug/L	33 UJ	30 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	250	ug/kg	NS	ug/L	6.5 UJ	5.4 J
100-41-4	ETHYLBENZENE	1000	ug/kg	NS	ug/L	6.5 UJ	5.9 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	120	ug/kg	4,000,000	ug/L	33 U	30 U
75-09-2	METHYLENE CHLORIDE	50	ug/kg	NS	ug/L	26	16
127-18-4	TETRACHLOROETHYLENE(PCE)	1300	ug/kg	14,000	ug/L	6.5 UJ	22
79-01-6	TRICHLOROETHYLENE (TCE)	470	ug/kg	10,000	ug/L	6.5 UJ	1.9 J
XYLENES	XYLENES, TOTAL	260	ug/kg	NS	ug/L	13 U	12 U

NS - No standard

U - Compound not detected

J - Estimated concentration below contract detection limit

14 - Detected compounds shown in bold font

						Dup of GW-2-111413				
NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	TCLP Hazardous Waste Criteria	Location ID:	GW-1	GW-2	GW-2	GW-3	GW-4	GW-5
				Sample ID:	GW-1-111413	GW-2-111413	GW-102-111413	GW-3-111813	GW-4-111813	GW-5-111213
				Lab Sample Id:	480-50249-5	480-50249-2	480-50249-3	480-50409-2	480-50409-1	480-50044-1
				Source:	TALBUFF	TALBUFF	TALBUFF	TALBUFF	TALBUFF	
				SDG:	480500441	480500441	480500441	480500441	480500441	
				Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
				Sampled:	11/15/2013	11/14/2013	11/14/2013	11/18/2013	11/18/2013	11/12/2013
				Validated:	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
75-34-3	1,1-DICHLOROETHANE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	700	ug/l	1 U	0.49 J	0.41 J	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	NS	ug/l	1 U	1 U	0.47 J	1 U	1 U	1 U
67-64-1	ACETONE	50 (G)	NS	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
67-66-3	CHLOROFORM	7	6,000	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	NS	ug/l	17	280	280	160	1 U	1 U
110-82-7	CYCLOHEXANE	NS	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	NS	ug/l	1 U	1 U	1 U	1 UJ	1 UJ	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	700	ug/l	32	100	99	79	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5	NS	ug/l	1 U	2.5	2.4	1.3	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	500	ug/l	10	44	43	28	1 U	1 U
75-01-4	VINYL CHLORIDE	2	200	ug/l	1.7	4.1	4.2	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	5	NS	ug/l	2 U	2 U	2 U	2 U	2 U	2 U

NS - No standard

32 - Shading indicates compound exceeds NYSDEC Class GA Groundwater Standard.

1.7 - Detected compounds shown in bold font..

U - Compound not detected

J - Estimated concentration below contract detection limit

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	TCLP Hazardous Waste Criteria	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	GW-7 GW-7-111413 480-50249-1 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	GW-8 GW-8-111213 480-49943-1 TALBUFF 480494191 WATER 11/12/2013 1/8/2014	GW-9 GW-9-111213 480-49941-1 TALBUFF 480494191 WATER 11/12/2013 1/8/2014	MW-9R MW-9R-111413 480-50137-3 TALBUFF 480500441 WATER 11/14/2013 1/8/2014	MW-10 MW-10-110613 480-49534-1 TALBUFF 480494191 WATER 11/6/2013 1/8/2014	MW-111 MW-111-111813 480-50409-3 TALBUFF 480500441 WATER 11/18/2013 1/8/2014
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
75-34-3	1,1-DICHLOROETHANE	5	NS	ug/l	1 U	0.43 J	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	700	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
67-64-1	ACETONE	50 (G)	NS	ug/l	10 U	10 U	110	10 U	3 J	10 U
67-66-3	CHLOROFORM	7	6,000	ug/l	1 U	1 U	1 U	1 U	1 U	0.58 J
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	NS	ug/l	1 U	9.9	1 U	38	2.9	1 U
110-82-7	CYCLOHEXANE	NS	NS	ug/l	1 U	1 U	81	1 UJ	1 U	1 U
100-41-4	ETHYLBENZENE	5	NS	ug/l	1 U	1 U	1.5	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	NS	ug/l	1 U	1 U	25	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	NS	ug/l	1 U	1 U	110	1 U	1 U	1 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	10	NS	ug/l	1 U	2.9	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	700	ug/l	1 U	1 U	1 U	12	1 U	12
156-60-5	TRANS-1,2-DICHLOROETHENE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	500	ug/l	1 U	1 U	1 U	6.4	1 U	1 U
75-01-4	VINYL CHLORIDE	2	200	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	5	NS	ug/l	2 U	2 U	1.9 J	2 U	2 U	2 U

NS - No standard

32 - Shading indicates compound exceeds NYSDEC Class GA Groundwater Standard.

1.7 - Detected compounds shown in bold font..

U - Compound not detected

J - Estimated concentration below contract detection limit

NYSDEC-Bestway Cleaners 2013 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Ambient Water Quality Standards/Guidance Criteria	TCLP Hazardous Waste Criteria	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-112 MW-112-111313 480-50045-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-113 MW-113-111313 480-50137-2 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-114 MW-114-111313 480-50137-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-115 MW-115-111313 480-50045-1 TALBUFF 480500441 WATER 11/13/2013 1/8/2014	MW-118 MW-118-111413 480-50249-4 TALBUFF 480500441 WATER 11/15/2013 1/8/2014
CAS NO.	COMPOUND			UNITS:					
	VOLATILES								
75-34-3	1,1-DICHLOROETHANE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	5	700	ug/l	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	10 (G)	NS	ug/l	1 U	1 U	1 U	1 U	1 U
67-64-1	ACETONE	50 (G)	NS	ug/l	10 UJ	10 U	10 U	3.2 J	10 U
67-66-3	CHLOROFORM	7	6,000	ug/l	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	NS	ug/l	1 U	1 U	1 U	4.5	85
110-82-7	CYCLOHEXANE	NS	NS	ug/l	1 U	1 UJ	1 UJ	1 U	1 U
100-41-4	ETHYLBENZENE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U
108-87-2	METHYLCYCLOHEXANE	NS	NS	ug/l	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	10	NS	ug/l	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5	700	ug/l	6.7	1 U	1 U	1 U	120
156-60-5	TRANS-1,2-DICHLOROETHENE	5	NS	ug/l	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	5	500	ug/l	0.6 J	1 U	1 U	1 U	22
75-01-4	VINYL CHLORIDE	2	200	ug/l	1 U	1 U	1 U	1 U	1.5
XYLENES	XYLENES, TOTAL	5	NS	ug/l	2 U	2 U	2 U	2 U	2 U

NS - No standard

32 - Shading indicates compound exceeds NYSDEC Class GA Groundwater Standard.

1.7 - Detected compounds shown in bold font..

U - Compound not detected

J - Estimated concentration below contract detection limit



SHIPPING DOCUMENT		1 Generator ID Number NYCESQG	2 Page 1 of 1	3 Emergency Response Phone (877) 813-6667	4 Shipping Document Tracking Number ZZ 00345899	
5 Generator's Name and Mailing Address NYSDEC @ BESTWAY CLEANERS SITE 1075 SENECA STREET BUFFALO, NY 14210			Generator's Site Address (if different than mailing address) SAME			
Generator's Phone 516 496-1791						
6 Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NY D 1 5 3 6 3 3 6 5			
7 Transporter 2 Company Name FREEHOLD CARTAGE INC			U.S. EPA ID Number N J C 3 5 4 1 2 6 1 6 4			
8 Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 4301 INFIRMARY ROAD WEST CARROLLTON, OH 45446			U.S. EPA ID Number OH C 0 9 3 9 4 5 2 2 3			
Facility's Phone 507 855-6101						
GENERATOR	9a HM	9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10 Containers No. Type	11 Total Quantity	12 Unit Wt/Vol	13 Codes
		1 NON REGULATED MATERIAL (RINSE WATER/PLASTIC SHEETING)	1 C M	160	?	NONE
		2 NON-HAZARDOUS LIQUID, n.o.s., (GROUNDWATER/DELL HOLE RINSE)	5 C M	2000	?	NONE
		3 NON-HAZARDOUS SOIL CUTTINGS	7 D M	4200	?	NONE
		4				
14 Special Handling Instructions and Additional Information ER Service Contracted by VESTS - 4-***VEOLIA PERMIT# N1410**NEED CERT OF DISPOSAL** 1) W 534439 A SRRLFIQ-NH 2) W 534435 A SRRLFIQ-NH 3) W 534433 A SRRLPSOLID-NH						
15 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations						
Generator's/Officer's Printed/Typed Name WPS Simon's Agent for NYSDEC Signature [Signature] Month 03 Day 04 Year 04						
TRANSPORTER	16 International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit _____ Date leaving U.S. _____					
	17 Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name WARREN SAVAGE Signature [Signature] Month 03 Day 04 Year 04					
	Transporter 2 Printed/Typed Name Robert Frown Signature [Signature] Month 03 Day 11 Year 04					
DESIGNATED FACILITY	18 Discrepancy 18a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Shipping Document Tracking Number _____					
	18b Alternate Facility (or Generator) _____ U.S. EPA ID Number _____					
	Facility's Phone _____					
	18c Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____					
19 Report Management Method Codes (e.g., codes for treatment, disposal, and recycling systems) 1 Hu1 2 Hu1 3 Hu1 4 _____						
20 Designated Facility Owner or Operator, Certification of receipt of shipment except as noted in item 18a Printed/Typed Name James White Signature [Signature] Month 03 Day 12 Year 04						

DESIGNATED FACILITY TO GENERATOR



GENERATOR CERTIFICATION

AS A

CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

William Simons
I, SCOTT DILLMAN, on behalf of NYSDEC @ BESTWAY CLEANERS
(Person's name) SITE (Company's name)

with a facility located at 2075 SENECA STREET BUFFALO, NY 14210
(Site address)

certify that I have read the federal hazardous waste regulations found in 40 CFR Parts 261.5 and 262.34 that pertain to the management of waste as a conditionally exempt small quantity generator

Based on my understanding of these rules as they apply to the site identified above, I certify that this site is a conditionally exempt small quantity generator. As such this site is not required to obtain an EPA identification number. In addition the waste being managed by Veolia has not been generated in quantities which exceed the permissible limits.

W. Simons Agent for NYSDEC 3/4/14
(Signature) (Date)

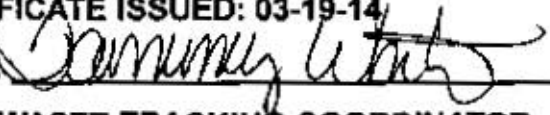
CERTIFICATE OF DISPOSITION

Veolia ES Technical Solutions, L.L.C., West Carrollton Facility has a RCRA Part B Permit that allows the facility to commingle wastes, recycle, store and transfer waste for distillation, supplemental fuels for energy recovery, thermal treatment, and stabilization

Veolia ES Technical Solutions, L.L.C. certifies that the waste which was received on Manifest Number: ZZ00345899 date: 3/12/14 will be/was managed in accordance with all applicable federal state and local laws and regulations

GENERATOR: NYSDEC @BESTWAY CLEANERS SITE
GENERATOR EPA:NYCESQG

DATE CERTIFICATE ISSUED: 03-19-14

SIGNATURE: 

TITLE: WASTE TRACKING COORDINATOR

Veolia ES Technical Solutions, L.L.C., 4301 INFIRMARY ROAD, WEST CARROLLTON, OH 45449, EPA ID# OHD093945293



SHIPPING DOCUMENT		1. Generator ID Number NYCESQG	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00346396		
5. Generator's Name and Mailing Address NYSDEC @ BESTWAY CLEANERS SITE 2075 SENECA STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME					
Generator's Phone: 518 490-1791							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9			
7. Transporter 2 Company Name FREEHOLD CARTAGE INC				U.S. EPA ID Number N J D 0 5 4 1 2 6 1 6 4			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 4301 INFIRMARY ROAD WEST CARROLLTON, OH 45449				U.S. EPA ID Number OH D 0 9 3 9 4 5 2 9 3			
Facility's Phone: 937 859-6101							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Codes	
		No.	Type				
	1. NON-HAZARDOUS LIQUID, n.d.s., (WATER - USED TO CLEAN DRILLING EQUIPMENT)	1	DM	75	P	NONE	
	2. NON-HAZARDOUS SOIL CUTTINGS	1	DM	100	P	NONE	
	3.						
	4.						
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS - **VEOLIA NYS TRANS PERMIT# NJ-410** NEED CERT OF DISPOSAL** - 1) W534435 A:SRRLFLIQ-NH 2) W534433 A:SRRLFSOLID-NH							
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offor's Printed/Typed Name Michael J. O'Leary		Signature <i>[Signature]</i>		Month Day Year 12 07 15			
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Shipment							
Transporter 1 Printed/Typed Name Lucas Bauerlein		Signature <i>[Signature]</i>		Month Day Year 12 07 15			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Shipping Document Tracking Number:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month Day Year			
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a							
Printed/Typed Name		Signature		Month Day Year			

SHIPPING DOCUMENT		1. Generator ID Number NYCRESOG	2. Page 1 of 1	3. Emergency Response Phone (877) 819-0087	4. Shipping Document Tracking Number ZZ 00451070		
5. Generator's Name and Mailing Address NYSDEC @ BESTWAY CLEANERS SITE 2075 SENECA STREET BUFFALO, NY 14210				Generator's Site Address (if different than mailing address) SAME			
Generator's Phone: 518 400-1791							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9			
7. Transporter 2 Company Name FREEHOLD CARTAGE INC				U.S. EPA ID Number N J D 0 5 4 1 2 6 1 6 4			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 4301 INFIRMARY ROAD				U.S. EPA ID Number OH D 0 9 3 9 4 5 2 9 3			
Facility's Phone: 937 850-6101 WEST CARROLLTON, OH 45449							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes
			No.	Type			
		1. NON-HAZARDOUS LIQUID, n.o.s., (WATER - USED TO CLEAN DRILLING EQUIPMENT)	1	DM	310	P	NONE L
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS - **Veolia trans permit# NJ-410** NEED CERTIFICATION OF DISPOSAL - 1) W534435 A-SRRFLIQ-NH							
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offor's Printed/Typed Name ROBERT B. P. ...				Signature <i>[Signature]</i>		Month Day Year 0 7 1 2 1 6	
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Shipment						
	Transporter 1 Printed/Typed Name Bradley P. ...		Signature <i>[Signature]</i>		Month Day Year 7 12 16		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Shipping Document Tracking Number: _____						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	



Activity Report

JOB NO: 2615735000 WO NO: 2615735000
BILL DOC NO JM60712578
GENERATOR NO 606467 EPA ID: NYCESQG

BILL TO: PARSONS
40 LARIVIERE DRIVE
SUITE 350
BUFFALO, NY 14202
(518) 490-1791

JOB SITE: NYSDEC @ BESTWAY CLEANERS SITE
2075 SENECA STREET
BUFFALO, NY 14210
(518) 490-1791

CONTACT: SCOTT DILLMAN

CONTACT: SCOTT DILLMAN

MANIFEST NUMBER(S):
ZZ00451070

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		07/12/2016	NY2

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # ZZ00451070 WIP 534435 / Approval SRRLFLIQ-NH NON HAZ GROUNDWATER/DRILL TOOL RINSE H2O	1	551A1-DM	300	P	1 / 1	

ESTIMATED WEIGHT USED

Total Hours: 0

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

1 of 2

Activity Report

JOB NO: 2615735000
BILL DOC NO JM60712578
GENERATOR NO 606467

WO NO: 2615735000
EPA ID: NYCESQG

BILL TO: PARSONS
40 LARIVERIERE DRIVE
SUITE 350
BUFFALO, NY 14202
(518) 490-1791

JOB SITE: NYSDEC @ BESTWAY CLEANERS SITE
2075 SENECA STREET
BUFFALO, NY 14210
(518) 490-1791

CONTACT: SCOTT DILLMAN

CONTACT: SCOTT DILLMAN

MANIFEST NUMBER(S):
Non-Disposals

CUSTOMER P.O. NUMBER		PROJECT NUMBER		SHIP DATE		TERR.	
				07/12/2016		NY2	
DESCRIPTION	# CONT.	CONT. CODE	QTY	UOM	PG/LN	WASTE AREA	
07/12/2016 Manpwr - MATERIAL PICK-UP CHARGE		989	1@1	EACH	/		
07/12/2016 Misc. - STATE REGULATORY FEES		4419	1	EACH	/		
07/12/2016 Misc. - ENERGY & SECURITY SURCHARGE		3129	1	PERCNT	/		

Total Hours: 0

Comments:

Signature: [Signature], Parsons, AS AGENT FOR NYSDEC

Print Name: Robert A. Lanza, Parsons, AS AGENT FOR NYSDEC

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



PACKING SUMMARY

Generator Number: 606467
NYSDEC @ BESTWAY CLEANERS SITE
2075 SENECA STREET
BUFFALO, NY 14210
Attn: SCOTT DILLMAN
EPA ID:NYCESQG

Manifest Number: ZZ00451070
Field System ID: JM
Work Order Number: 2615735000
Date Shipped: 07/12/2016

Container#:	JM-2615735000-001	Waste Area:		Manifest Page/Line:	01 / 1
WMP:	534435	Disposal Code:	SRRLFIQ-NH	PHY State:	L
Date Accumulated:	07/12/2016	Gen Drum ID:			
Shipping Name:	NON-HAZARDOUS LIQUID, n.o.s., (WATER - USED TO CLEAN DRILLING EQUIPMENT)				
No. of Commons:	01	Outer Container:	551A1EDM	Inner Container:	
Primary Waste Codes:	NONE,L	PCB Serial #:		OOS Date:	/ /
Total Crms Wt:	~~400~~ 300	SIC:	8999	Source:	G19
		Form:	WH19	System:	H141
Individual Common Weights:	1 @ 400 (POUNDS)				
Units	Container Size	Net Weight	Chemical Name	EPA/State Codes	
1	55 GAL		WATER - USED TO CLEAN DRILLING EQUIPMENT (100%)	NONE,L	