ENVIRONMENTAL GROUP, INC.
ENGINEERING, ARCHITECTURE & SURVEYING, PC

PERIODIC REVIEW REPORT
AND
ANNUAL CERTIFICATION
FOR AUGUST 2013-AUGUST 2014

OIL CITY/CAROUSEL CENTER - PHASE I SITE (#C734104)
DESTINY USA, SYRACUSE, NEW YORK

Prepared for:

New York State Department of Environmental Conservation Region 7

March 2009 Aerial Photograph

Prepared by:

Spectra Engineering, Architecture and Surveying, P.C.
19 British American Boulevard
Latham, New York 12110

SEPTEMBER 2014
REVISED DECEMBER 2014

PERIODIC REVIEW REPORT AND ANNUAL CERTIFICATION
FOR REPORTING PERIOD AUGUST 2013-AUGUST 2014
OIL CITY/CAROUSEL CENTER – PHASE I (#C734104)
DESTINY USA, SYRACUSE, NEW YORK

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1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This is the second Periodic Review Report (PRR) and the Annual Certification which is required as an element of the remedial program for the Oil City/Carousel Center - Phase I Site (#C734104), (hereinafter referred to as the "Phase I Site", or "the Expansion") pursuant to the Brownfield Cleanup Agreement (execution date June 28, 2005) under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). A Certificate of Completion (COC) was signed on December 2, 2011. The initial PRR and Annual Certification were submitted to NYSDEC and signed in August 2013.

1.1.1 General

Destiny USA Holdings, LLC and or its affiliates (Destiny) has remediated a 10.3 acre property located in Onondaga County, Syracuse, New York (the "Phase I Site") to address subsurface soil, groundwater and vapor contamination present within the Phase I Site boundaries. The Remedial Party, Destiny, was required to investigate and remediate contaminated media at the Phase I Site. The site location of the 10.3 acre area subject to this report is provided in Figure 1.

After completion of the remedial work, which included source removal of approximately 80,000 cubic yards of contaminated soil (see Phase I RWP), some residual contamination remained at depths well below finished grade. A Phase I Site Management Plan (Phase I SMP) was prepared to manage the residual material at the Phase I Site. All BCP reports associated with the Phase I Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

1.1.2 Purpose

This report represents the second Periodic Review and Annual Certification Report for the Destiny USA Phase I Site. The Phase I Periodic Review and Annual Certification Report have been prepared by Spectra Engineering, Architecture and Surveying, P.C. ("Spectra"), on behalf of Destiny, in accordance with the requirements set forth in the Phase I SMP. The report was prepared pursuant to Section 6.0 "Inspections, Reporting and Certifications" presented in the Phase I "Site Management Plan and Operations and Maintenance Plan" dated August 2009 and addresses the operation and maintenance of the Institutional Controls (ICs) and Engineering Controls (ECs) that are in place on the Phase I Site. A detailed description of all ECs and ICs was provided in the initial PRR report.

Per the SMP; the site owner or remedial party must submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

A Periodic Review Report is also required to be submitted to the Department annually in accordance with BCA regulatory reporting requirements.

This certification and periodic review shall be submitted annually, or at an alternate period of time as approved by the NYSDEC and will be made by an expert that the NYSDEC finds acceptable.

This report and supporting data covers the monitoring period of August 2013 to August 2014. This is the second annual report and annual certification completed for Phase I Site since remedy implementation.

Information contained in this report was provided by the site monitor and includes the following:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site; and
- A summary of monitoring data and/or information generated during the reporting period with comments and conclusions.

This periodic site evaluation also assesses the following:

- The compliance of the remedy with the requirements of the site-specific RAWP, ROD or Decision Document;
- The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
- Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
- Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan;
- The overall performance and effectiveness of the remedy; and
- Any observations, conclusions, or recommendations.

2.0 GENERAL SITE DESCRIPTION

The overall Destiny Site consists of approximately 152 acres at the southeast end of Onondaga Lake (a Class C water body). It is generally bounded by: Onondaga Lake and Conrail tracks, to the northwest; Interstate 81 (I-81) to the north and northeast; Bear Street on the south and southeast; and the New York State Barge Canal to the south and southwest. See Figures 1 and 2.

The Phase I Site is located in the southeast portion of the lands generally referred to as the Carousel Center site, between the existing Carousel Center building and West Hiawatha Boulevard. The Phase I Site consists of the area under the expansion area footprint as shown on Figure 2 "Site Plan". The remedy described in the Phase I RWP has been completed and is subject to the ongoing operation and maintenance requirements set forth in the Phase I Site Management/Operations and Maintenance Plan ("Phase I SMP"). Prior to the work described in the Final Engineering Report, the Phase I Site consisted of surface parking lots and associated driveway areas. Prior to 1990, a portion of each of the following uses was located in the area of the Phase I Site: Marley Scrap Yard, Buckeye Petroleum Tank Farm, and the Amerada Hess Petroleum Tank Farm.

Land uses surrounding the Destiny Site consists generally of business districts and mixed residential property to the north and east. Vacant land abuts the property to the south-southeast. The Onondaga County Metropolitan Sewage Treatment Plant is located across the Barge Canal to the south-southwest.

3.0 DESCRIPTION OF SELECTED REMEDY

The remedy selected for the Phase I Site was – Excavation, Vapor Barrier with Vapor Control and Capping. See Phase I RWP, §2.0, Alternative 4.

The selected remedy was chosen because it met the criteria established in the BCP program, including the protection of public health and the environment (including groundwater, drinking water, surface water, air, indoor air and sensitive populations) and was consistent with remedies approved and implemented at other NYSDEC-approved BCP sites with similar contamination and proposing a similar use. The selected remedy included both institutional and engineering controls, which are described below. The remedy is appropriately protective to allow the Phase I Site to be used for restricted-residential (other than single family houses), commercial, or industrial purposes.

3.1 ENGINEERING CONTROLS

Soil Cover

Exposure to residual soil contamination at the Phase I Site is prevented by a four inch layer of clean sand, a vapor barrier, and a 15-inch thick concrete slab on grade.

Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of the Phase I SMP.

Vapor Control and Vapor Barrier System

The vapor control pipe network uses 2-inch diameter slotted schedule 40 PVC pipe, which has been installed under the floor slab. Parallel laterals are laid no more than 40 feet apart on center. Perforations for the piping are 0.020 inch wide circumferential slots. The slotted pipe is wrapped with filter fabric. All ends are capped with piping connections and end caps glued with PVC cement to prevent separation. The piping network is divided into six sections (galleries) with each gallery covering approximately 75,000 sq. ft. of floor area.

Two inch diameter Schedule 40 PVC solid pipe was installed to connect each gallery to an in-line axial fan. The fans extract air from the subslab environment and exhaust on the roof of the expansion. Each independent gallery of the sub-slab pipe network was originally de-pressurized by an in-line axial fan in the solid gallery riser pipe, located on the second level. In April and May, 2012. the six fans were replaced by three regenerative blowers located in three separate weather enclosures on the roof. The vapor control system exhaust is vented above the building roofline. This system is similar to the sub-slab depressurizing systems employed in radon-affected areas.

The riser location for each gallery is shown on the vapor control system construction drawings provided in the Final Engineering Report and in the 2012 Periodic Review Report.

The pressure in the vapor control galleries is maintained lower than the ambient pressure in the occupied spaces of the expansion. This ensures that vapors emanating from soil beneath the building move towards the pipe gallery, to be captured and vented safely outside of occupied space. The system produces a vacuum on the collection gallery risers in the range of 2 to 3 inches of water ("IWG").

Vapor Barrier

A vapor barrier was installed that extends from the façade of the existing building to the perimeter of the Phase I Expansion area to establish a continuous sealed vapor barrier beneath the concrete slab floor.

During piping installation, the vapor barrier material was used to create an apron (min 24 inch wide) around each riser stub. Each riser stub was sealed to the apron and to the ground sheet with butyl mastic tape in concentric rings around the riser pipe. A minimum 4 inch wide air tight seal was created.

Adjacent sheets of vapor barrier material were overlapped by a minimum of 18 inches and sealed with a continuous strip of butyl mastic double sided tape, with a minimum 4 inch wide seal to create an air tight joint.

The vapor barrier extends at least 12 inches onto the top of each concrete pile cap or grade beam. The vapor barrier is adhered to concrete with butyl mastic double sided tape with a minimum 4 inch wide air tight seal.

Conduit bundles extending through the concrete slab are wrapped together with the vapor barrier extending a minimum of 4 inches above top of concrete slab. The open portion of the vapor barrier has been sealed with foam or silicon joint compound to create an air tight plug.

The vapor barrier was loosely laid between pile caps to prevent membrane tension. The vapor barrier contains a minimum 18-inch wide tension relief fold between the pile caps. The longitudinal lap seal between side-by-side sheets may not fall within the Tension relief fold. The tension relief fold may cross lap seal at ends of sheets.

Prior to pouring the floor slab, the vapor barrier was inspected for the integrity of joints and membrane material, and for proper tension relief construction. Membrane tension was relieved by splicing additional sheet material, using the lap seal requirements above (See Figure 4).

Procedures for operating and maintaining the vapor control system are documented in the Operation and Maintenance Plan (Section 4 of the Phase I SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the Phase I SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the site, occurs.

Groundwater Controls

The selected remedy does not include engineering controls for groundwater contamination at the Phase I Site. Removal of contaminated soil has a beneficial effect on groundwater conditions by eliminating sources. The concrete slab covering the Phase I Site functions as a cap that prevents infiltration of precipitation that might otherwise come in contact with residual contaminated soil. These controls will restrict dermal contact, inhalation and ingestion of water. In addition, the institutional controls discussed below, restrict the use of groundwater on the Phase I Site for any purpose unless it is first treated in a manner deemed acceptable to the NYSDEC to render such groundwater safe for the purpose for which it will be used. These measures preclude the need for any groundwater treatment on the Phase I Site.

Notwithstanding these protections, in the event contaminated groundwater leaves the Phase I Site it is captured and appropriately treated by an existing groundwater control and treatment facility located downgradient of the Phase I Site (See Figure 3). These controls include:

a. A groundwater collection trench located down gradient of the Phase I Site collects and treats potentially migrating contaminants before they could migrate to locations off of the Carousel Center;

b. A slurry wall around Carousel Center which is designed to limit groundwater flow across the Phase I Site; and

c. The existing Carousel Center foundation wells which continuously pump and treat the Phase I Site groundwater through an on-site wastewater collection and treatment system prior to discharge through a NYSDEC SPDES permitted outfall. The foundation pumping system is designed to create a hydraulic gradient towards the foundation well intake which further limits any threat of offsite migration of contaminants through groundwater.

Each of these facilities are operated pursuant to requirements established by and under the supervision of NYSDEC.

In addition, because of capping and lining of features at and adjacent to the Phase I Site, the community is not exposed to groundwater. Water for the Phase I Site is supplied by an existing municipal water supply system.

3.2 INSTITUTIONAL CONTROLS

The selected remedy also includes institutional controls for the Phase I Site. The institutional controls provide the necessary non-physical protections and provide notice to properly limit potential human or environmental exposure to contaminants.

The institutional controls for the Phase I Site include establishment of an environmental easement that requires:

a. Compliance by the Grantor and the Grantor's successors and assigns with all elements of the NYSDEC-approved Site Management Plan/Operation, Maintenance and Monitoring Plan (which outlines the required activities, such as, inspection, monitoring, certification, operation, maintenance and repair);

b. Prohibition of groundwater use for potable or non-potable uses is prohibited on the Phase I Site without first undergoing a NYSDEC and/or NYSDOH approved treatment;

c. That all proposed ground-intrusive activities on the Phase I Site be conducted in accordance with the NYSDEC-approved Site Management Plan; and

d. A prohibition on any vegetable gardens on the surface of Phase I Site as per NYCRR Part 375-1.8(g)(2)(ii).

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

Site restrictions that apply to the Phase I Site are:

- The property may not be used for a higher level of use, such as unrestricted residential (i.e. single family houses), without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- Ensure appropriate future use and that future property owners are aware of the existing conditions on the Phase I Site;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Phase I SMP;

- Include the required notifications prior to commencement of any ground-intrusive activities that may encounter contaminated materials. Notification of NYSDEC and any on-site workers will be required prior to excavating soil;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use; and
- Include notice of and information relating to a soil management plan, identifying requirements in the event of excavation, which will be included as part of the operations and maintenance monitoring plan (OM&M).

4.0 SUMMARY OF COMPLETED 2013-2014 SITE ACTIVITIES AND MONITORING

4.1 SYSTEM MAINTENANCE

During the current reporting period the following system maintenance activities were performed:

1. In March 2014, vacuum pumps on south and middle zones were removed and bearings were replaced on motors. Pumps were reinstalled.
2. In April 2014, one rooftop vacuum pump motor failed. Motor was repaired and reinstalled.
3. Four (4) new gauges were installed; Risers A,B (Heat pump Room 303, and Wonder Works) & Risers C,D (Heat Pump Room 310). The other two gauges are working and did not require replacement. See Appendix D for Gauge description and specifications.

4.2 PRESSURE FIELD EXTENSION TEST

A pressure field extension (PFE) test was conducted in November, 2011, while the system was operating with the in-line axial fans and before the building was fully occupied. The November 2011 results were transmitted to the Department on November 23, 2011.

At the Department's request, a second PFE test was completed in August, 2013, after the rooftop regenerative blowers were installed and the building was substantially occupied. The 2013 re-test was requested by the Department to demonstrate that full build-out and occupation of the Expansion did not adversely affect the efficiency of the subslab depressurization system.

The number of test points and proposed point locations for the original 2011 PFE test were approved by NYSDEC. That test showed that the system was maintaining the subslab environment in a negative pressure condition (lower than the occupied space of the Expansion) at all points, as intended.

The PFE test conducted in 2013 and documented in the 2013 PRR included ten of the original 16 test points. Six of the original 16 test points were lost due to build-out of tenant space in the Expansion. The remaining ten points all exhibited negative pressures as required. The NYSDEC requested the lost points be replaced and re-tested.

In August 2014, an additional five (5) vapor monitoring points were installed. All five (5) points measured negative pressures confirming the subslab depressurization system is working effectively as designed. The results of the 2014 PFE testing is provided in Appendix B.

4.3 AIR GUIDE 1 ANALYSIS

At the request of NYSDEC Region 7, an Air Guide 1 air dispersion screening model analysis was performed in November 2011 to evaluate the potential environmental impact of air toxics emissions from the rooftop exhaust stacks connected to the vapor control system. The analysis report was transmitted to the Department on November 11, 2011. The Department reviewed the analysis and concurred that it was done in accordance with good engineering practice, and showed that the emissions meet Department guideline values, and the vents comply with the substantive air requirement of 6NYCRR Part 212.

The analysis was repeated in 2013 after the original SSDS ducted fans were replaced with rooftop regenerative blowers. Results were reported in the August 2013 PRR. The samples collected for the 2013 Air Guide 1 Analysis were collected in tedlar bags, and the holding times for the analytical method were exceeded. At the Department's request, the risers in Zone 1 of the SSDS (Risers A and B) were re-tested in March 2014, using samples collected with Summa canisters. Data was collected from the system while running under normal operating conditions. The analysis was performed for nine air toxic compounds that were present at the greatest level relative to Annual Guideline Concentration values (AGCs) published by the NYSDEC.

The updated 2014 Air Guide analysis and the air sampling laboratory report are provided in Appendices A and C respectively. The predicted maximum short-term, cavity, point, or area source impacts are less than 0.01% of the Short-term Guideline Concentration values (SGCs) for all contaminants modeled, demonstrating that the SSDS does not pose any adverse environmental air toxic impacts to the general public. Reinforcing this conclusion, the predicted actual annual impacts are less than 1% of their corresponding Annual Guideline Concentration values (AGCs), and the sum of the constituent percentages is less than 2% sum of the constituent guideline concentration values.

4.4 SYSTEM MONITORING

Consistent with the Site Management Plan, the pressure monitoring system is to be monitored on a monthly basis. Effective June, 2014 the responsibility to monitor the subslab vapor system was transferred from Spectra to Destiny USA. All monitoring, maintenance, and system reports will be maintained by Destiny USA and submitted to the certifying engineer for inclusion in the Periodic Review Report. Appendix D contains the annual system monitoring reports and documentation of maintenance events during the review period.

5.0 IDENTIFICATION, ASSESSMENT, AND CERTIFICATION OF ALL ECS/ICS

5.1 REMEDY COMPLIANCE

Compliance is established by application of the engineering and institutional controls described in the Site Management Plan. The engineering controls must be inspected, monitored, certified, operated and maintained. Institutional controls put restrictions on certain current site activities and future site use and management.

5.1.1 Engineering Controls

Engineering controls to prevent exposure to residual soil contamination consist of a four inch layer of clean sand, vapor collection galleries, a vapor barrier, and a 15-inch thick concrete slab on grade, and vapor control system. Observations during construction verified that the sand layer was in place, the vapor collection pipe network was constructed according to engineering specifications, the vapor barrier extended from the façade of the existing building to the perimeter of the Phase I Expansion area providing a continuous sealed vapor barrier, the concrete floor of the building was built to engineering specifications, the specified vent fans were installed on each vapor collection gallery, and the risers are vented above the building roofline.

There are no operational or maintenance activities associated with the impermeable membrane. Maintenance of the three regenerative blowers will continue at manufacturer recommended intervals, in accordance with the SMP.

The SMP specifies the schedule for monitoring the pressure in the system. The pressure in the vapor control galleries is maintained below the ambient pressure in the occupied spaces of the expansion, ensuring that vapors emanating from soil beneath the building move towards the pipe gallery, are captured, and vented safely outside of the occupied space. The system produces a vacuum in the collection galleries in the range of 2 to 3 inches of water (“IWG”). The monitoring records indicate that the proper pressure range was maintained during this reporting period.

The SMP specifies the schedule for collecting and analyzing representative air samples in each pipe gallery. The laboratory results of the sample analyses are provided in Appendix C. Analytical testing shows that the soil vapor control system is working effectively.

5.1.2 Institutional Controls

The institutional controls consist of the implementation of provisions incorporated in an approved environmental easement, which includes restrictions on certain site activities that present and future site owners must observe. The environmental easement provisions have been implemented as follows:

- The current owner is implementing all elements of the Site Management Plan/Operation, Maintenance and Monitoring Plan;
- The impervious cap has been implemented with construction of the vapor barrier (sand layer, membrane and concrete floor) in accordance with engineering specifications;
- The soil vapor mitigation system has been constructed in accordance with engineering specifications, and is being operated, monitored, maintained, in accordance with the Site Management Plan;
- Groundwater is not being used for potable or non-potable uses on the Phase I Site;
- Ground-intrusive activities on the Phase I Site have been conducted in accordance with the Site Management Plan. Notifications are made to NYSDEC and on-site workers prior to commencement of these activities;
- There are no vegetable gardens on the surface of Phase I Site;
- The use of the property has not changed; and
- The property remains under the control as the owner of record during the remediation, therefore, the restrictions on future use that must be observed by future owners are not applicable for this reporting period.

5.2 SYSTEM EFFECTIVENESS

The riser fans maintain a vacuum on each collection gallery to ensure that vapors originating below the expansion area floor will not enter the occupied spaces in the expansion.

Vacuum pressure and vapor contaminant data were collected to assess the vapor control system's effectiveness and document trends in sub-slab vapor contaminant concentrations.

5.3 OBSERVATIONS AND CONCLUSION

The vapor control system has operated reliably over the course of this reporting period. The continuous vacuum applied by the vacuum systems provide assurance that the collection galleries are operating effectively and vapors originating below the expansion floor are not entering the occupied space.

As of this report date, the vapor control system is fully operational. Future reports will be prepared as required by regulation and/or agreement.

5.4 RECOMMENDATIONS

At the time of this reporting, there are no modifications needed to the vapor control system. The operation and monitoring routine should be continued unchanged. Any future interior

renovations or improvements that compromise the integrity of the vapor barrier should be conducted in accordance with the SMP.

5.5 REMEDY EFFECTIVENESS

The performance and effectiveness of the remedy is consistent with the objectives of the remedial work plans, the record of decision, and the provisions of the Site Management Plan. The engineering and institutional controls have provided adequate protection of public health during this reporting period. No additional modification of the controls, including the operation, maintenance, inspection and monitoring procedures currently in place, are needed at this time to provide continued future protection of public health.

6.0 ANNUAL CERTIFICATION

Certification Condition	Vapor Control System	Groundwater & Soil Restrictions
The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;	True	True
The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;	True (Note 1)	True
Nothing has occurred that would impair the ability of the control to protect the public health and environment;	True	True
Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;	True	True
Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;	True	True
If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;	NA (Note 2)	NA (Note 2)
Use of the site is compliant with the environmental easement;	True	True
The engineering control systems are performing as designed and are effective;	True	NA (Note 3)
To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and	True	True
The information presented in this report is accurate and complete.	True	True

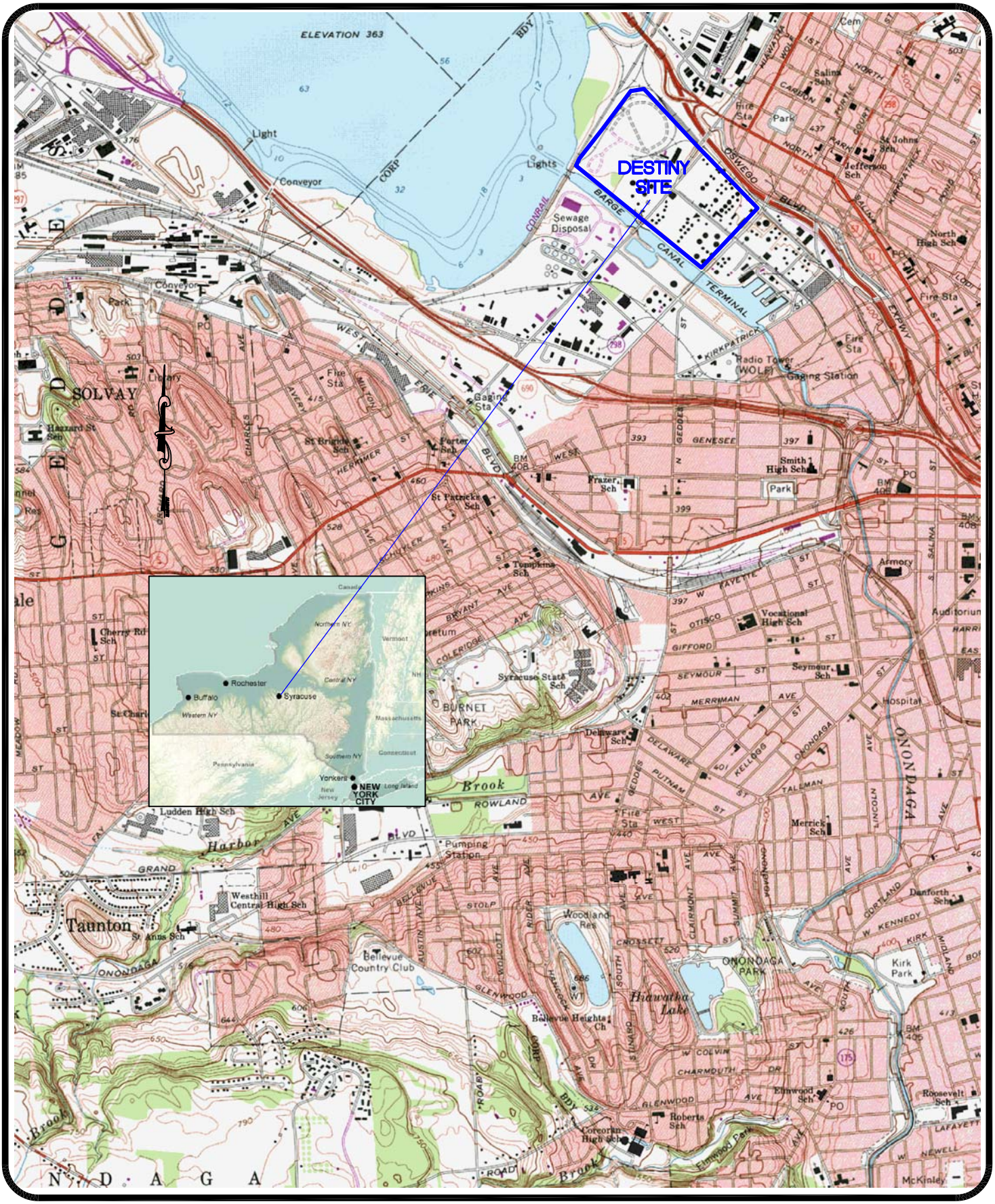
Note 1. Original six in-line axial fans replaced with regenerative blowers in May 2012.
Note 2. Circumstances have not required establishing a financial assurance mechanism.
Note 3. Groundwater and Soil Restrictions are institutional controls.

No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Paul M. Adel, P.E., of Spectra Engineering, Architecture and Surveying PC, 19 British American Boulevard, Latham, NY 12110, am certifying as Owner's Designated Site Representative for remediation engineering for the site.

075084-1	September 25, 2014	
NYS Professional Engineer #	Date	Signature

FIGURES

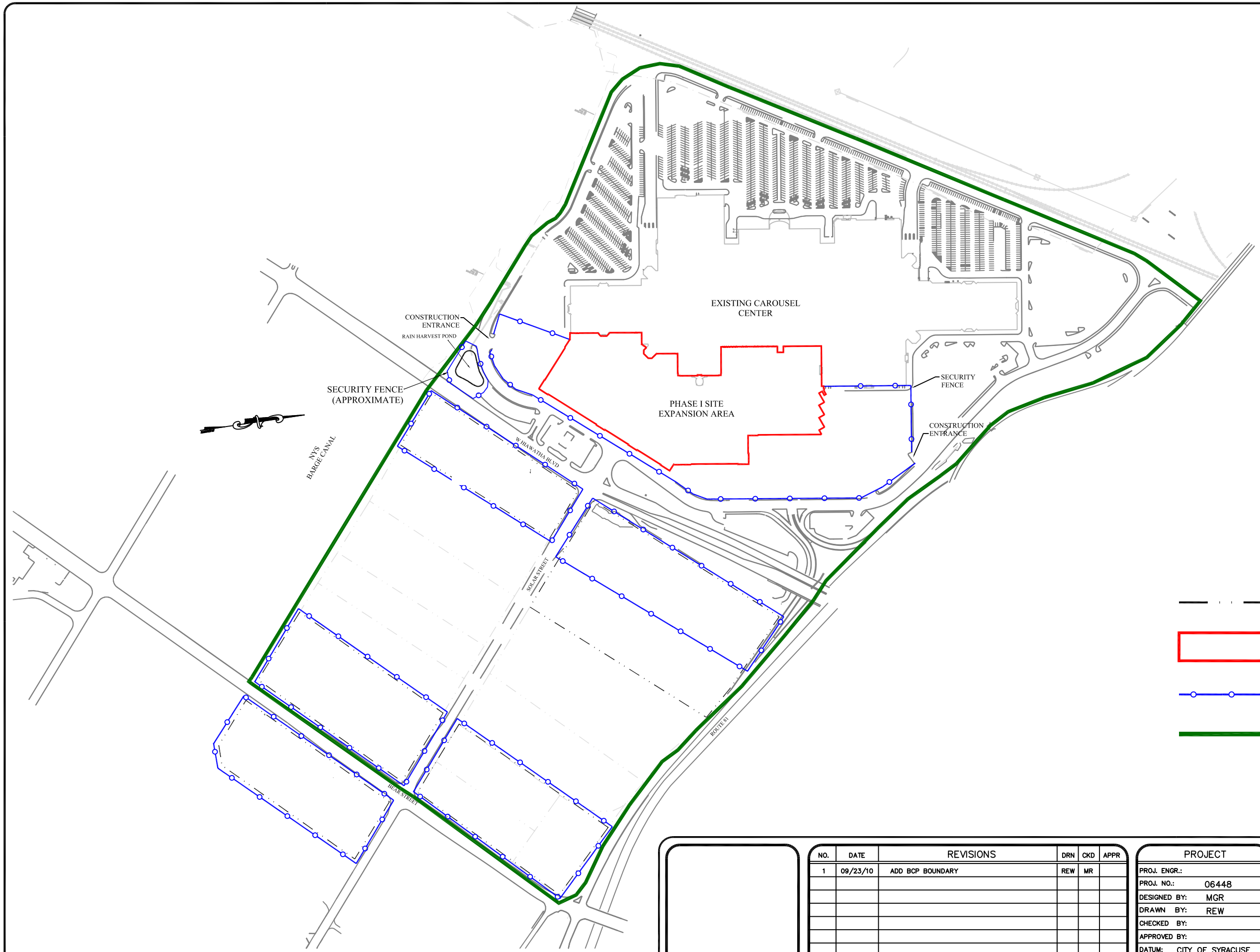


SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Blvd
Latham, NEW YORK 13202

DESTINY SITE
LOCATION MAP

ONONDAGA COUNTY — NEW YORK

PROJ. No.: 06448	DATE: 08/24/2010	SCALE: NOT TO SCALE	DWG. NO.06448SLMAP.DWG	FIGURE 1



NOTE: MAP BASED ON DRAWINGS FROM O'BRIEN AND GERE ENGINEERS, INC. ISSUED FOR CONSTRUCTION 06/06/2007

LEGEND

- PARCEL BOUNDARIES
- PHASE I SITE BOUNDARY
- SECURITY FENCE
- APPROXIMATE BCP BOUNDARY (152 ACRES)

NO.	DATE	REVISIONS	DRN	CKD	APPR
1	09/23/10	ADD BCP BOUNDARY	REW	MR	

PROJECT	
PROJ. ENGR.:	
PROJ. NO.:	06448
DESIGNED BY:	MGR
DRAWN BY:	REW
CHECKED BY:	
APPROVED BY:	
DATUM:	CITY OF SYRACUSE
CONTOUR INTERVAL =	NA

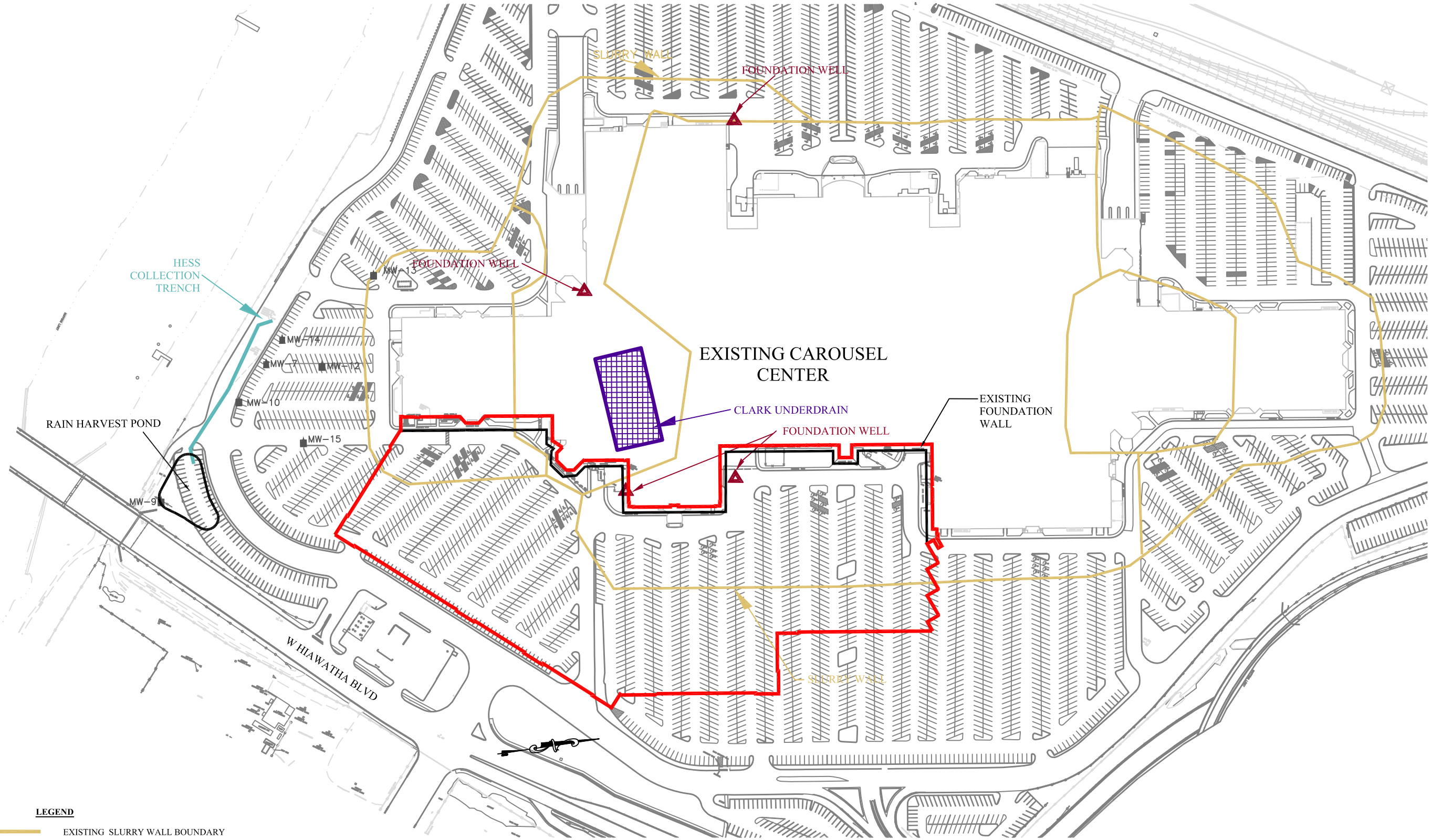
0 100' 200' 400'
1" = 400'

SITE PLAN
PHASE I SITE

CITY OF SYRACUSE, NEW YORK — ONONDAGA COUNTY

SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Boulevard
Latham, New York 12110
TEL (518) 782 0882 FAX (518) 782 0973

DATE: 08/24/10	SCALE: 1" = 400'	DWG. NO. 06448	FIGURE 2



LEGEND

- EXISTING SLURRY WALL BOUNDARY
- EXISTING FOUNDATION WELLS
- EXISTING CLARK UNDERDRAIN
- EXISTING HESS TRENCH
- MW-7 EXISTING MONITORING WELLS
- EXISTING TUNNEL WALL
- PHASE I SITE BOUNDARY

NOTE: MAP BASED ON DRAWINGS FROM O'BRIEN AND GERE ENGINEERS, INC. ISSUED FOR CONSTRUCTION 06/06/2007

NO.	DATE	REVISIONS	DRN	CKD	APPR

PROJECT	
PROJ. ENGR.:	
PROJ. NO.:	06448
DESIGNED BY:	MGR
DRAWN BY:	REW
CHECKED BY:	
APPROVED BY:	
DATUM:	CITY OF SYRACUSE
CONTOUR INTERVAL =	NA

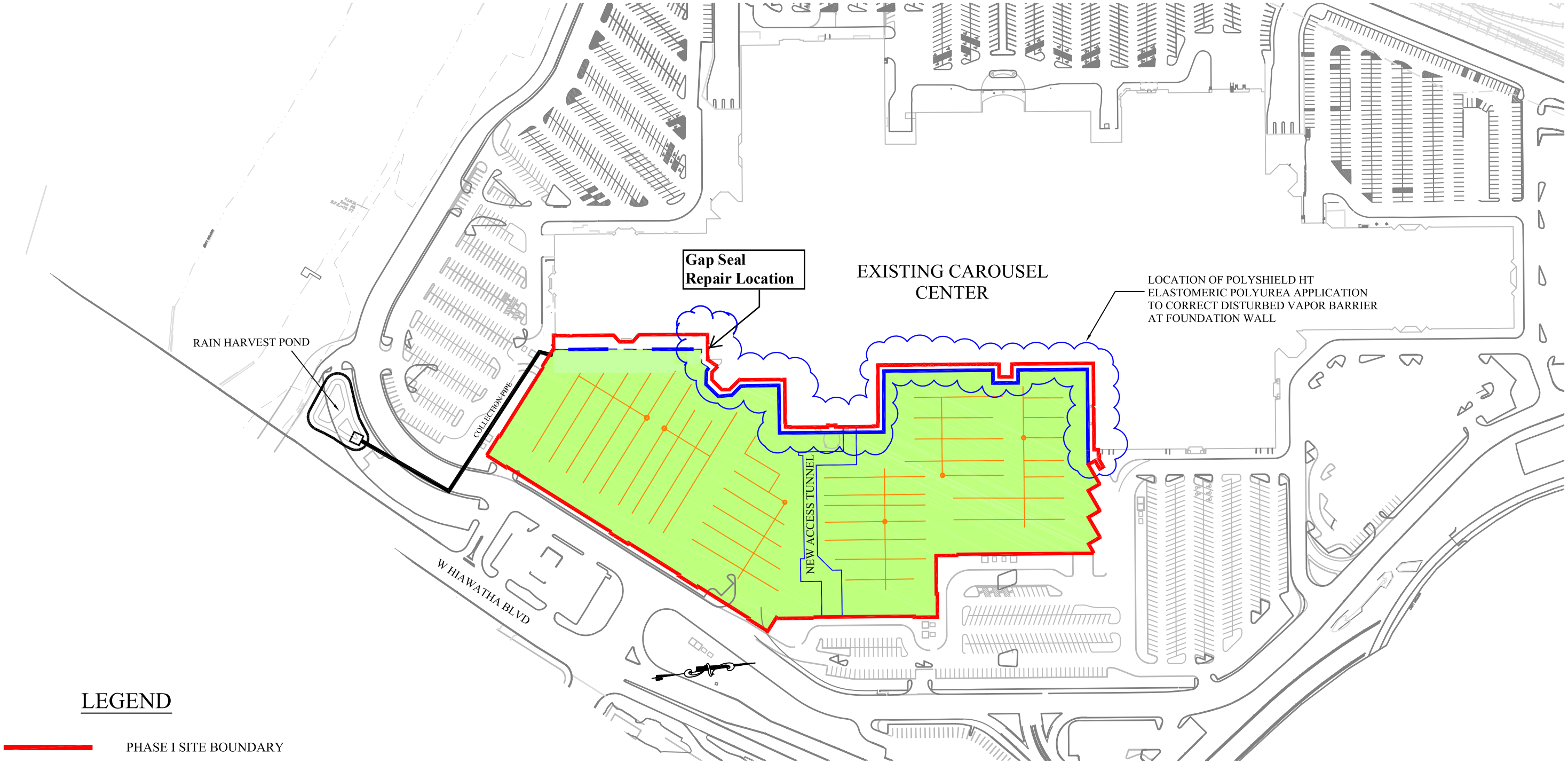
0 50' 100' 200'
1" = 200'

EXISTING HYDRAULIC CONTOLS PLAN PHASE I SITE

CITY OF SYRACUSE, NEW YORK — ONONDAGA COUNTY

SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Boulevard
Latham, New York 12110
TEL (518) 782 0882 FAX (518) 782 0973

DATE: 08/24/10 | SCALE: 1" = 200' | DWG. NO. 06448 | FIGURE 3



LEGEND

- PHASE I SITE BOUNDARY
- LIMITS OF VAPOR BARRIER
- VAPOR CONTROL PIPE LATERAL
- VAPOR CONTROL SYSTEM RISER AND BLOWER LOCATION (EXTENDS FROM 1ST FLOOR TO ROOF) SEE DETAILS SHEETS APPENDIX K

NOTE: MAP BASED ON DRAWINGS FROM O'BRIEN AND GERE ENGINEERS, INC. ISSUED FOR CONSTRUCTION 06/06/2007

NO.	DATE	REVISIONS	DRN	CKD	APPR

PROJECT	
PROJ. ENGR.:	
PROJ. NO.:	06448
DESIGNED BY:	MGR
DRAWN BY:	REW
CHECKED BY:	
APPROVED BY:	
DATUM:	CITY OF SYRACUSE
CONTOUR INTERVAL =	NA

0 50' 100' 200'
1" = 200'

ENGINEERING CONTROLS PLAN
PHASE I SITE

CITY OF SYRACUSE, NEW YORK — ONONDAGA COUNTY

SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Boulevard
Latham, New York 12110
TEL (518) 782 0882 FAX (518) 782 0973

DATE: 08/24/10	SCALE: 1" = 200'	DWG. NO. 06448	FIGURE 4

APPENDIX A

REVISED AIR GUIDE ANALYSIS

ENVIRONMENTAL GROUP, INC.
ENGINEERING, ARCHITECTURE & SURVEYING, PC

May 29, 2014

Ms. Karen Cahill
NYS Department of Environmental Conservation
Region 7 Headquarters
615 Erie Boulevard West
Syracuse, NY 13204-2400

Re: Sub-Slab Depressurization System Air Guide 1 Analysis
Destiny Mall, Syracuse, NY
Spectra File No. 06448

Dear Ms. Cahill:

On behalf of Destiny USA's (DUSA), Spectra is submitting, attached, the results of the Air Guide 1 air analysis performed on the sub-slab depressurization system (SSDS) at the Destiny Mall in March 2014, along with the supporting laboratory report. The following notes memorialize the chronology of the air analysis reports for the mall expansion.

The first Air Guide 1 analysis was conducted in November 2011. Results were submitted to the Department via e-mail on November 10, 2011 (as noted in the November 2011 Progress Report). After replacing the SSDS axial fans with regenerative blowers, the second Air Guide 1 analysis was conducted in August 2013. Results were provided with the 2013 Periodic Review Report and Annual Certification, in August 2013. At the Department's request, the risers in Zone 1 of the SSDS (Risers A and B) were re-tested in March 2014, utilizing summa canisters to obtain samples.

Although the laboratory results on Risers A and B using summa canisters are higher than the results obtained in August, 2013 (possibly due to the sampling method, or fluctuations over time in the sub-slab vapor environment, or a combination of these factors), the resulting emission rates are trivial with respect to the DAR-1 guidance values.

Please contact me at 518-782-0882 if you have any questions regarding these results.

Very truly yours,

SPECTRA ENGINEERING, ARCHITECTURE
AND SURVEYING, P.C.

Paul M. Adel, P.E.
V.P., Director of Technical Services

Attachments

cc w/ att: D. Aitken, Destiny USA
R. Parker, DEC
M. Schuck, DOH

PMA/
G:\2012\12144\Correspondence\Cahill 2014 DAR Analysis.doc

DestiNY DAR-1 Air Toxics Evaluation of Soil Vapor Control System
Sub-Slab Depressurization System (SSDS)
March 2014 Update

The Sub-Slab Depressurization System (SSDS), installed at DestiNY prior to constructing the slab of the on-site building as a precautionary mitigation measure to minimize potential exposures due to soil vapor intrusion, has been monitored for air toxics emissions since its installation in the summer of 2009. Mass emission rates of sampled volatile organic compounds and air toxics have been low.

Following the Air Guide 1, or DAR-1, analysis conducted in August 2013, the Zone 1 risers (Risers A and B) were re-sampled on March 5, 2014, using summa canisters. Included in the compounds sampled and analyzed were approximately thirty (30) compounds listed in NYSDEC's *DAR-1 AGC/SGC Tables*, October 18, 2010, which are commonly referred to as "air toxics" and which will be referred to as such in the remainder of this discussion. An "AGC" is an Annual Guideline Concentration recommended exposure limit, expressed in micrograms per cubic meter of air, to protect the general public from adverse exposure to toxic air contaminants; an "SGC" is a corresponding Short-term Guideline Concentration , or 1-hour, recommended exposure limit. Please note that guideline concentrations are not air quality standards.

Concurrent with this latest sampling, exhaust flows (acfm), as measured by and calculated from velocity meter readings, were measured in Risers A and B separately. The previous analysis was performed on nine (9) air toxics for which at least one riser exhibited a monitoring concentration exceeding a published AGC for the sampling event conducted at that time. The current analysis was performed on the same nine (9) air toxics for direct comparison purposes. The nine compounds, their Chemical Abstract Service registry numbers (CAS#), SGCs and AGCs are:

	Contaminant	CAS#	SGC μg/m³	AGC μg/m³
#1	Carbon tetrachloride	00056-23-5	1900	0.17
#2	Chloroform	00067-66-3	150	0.043
#3	Benzene	00071-43-2	1300	0.13
#4	Vinyl Chloride	00075-01-4	180000	1.1E-01
#5	Metheylene Chloride	00075-09-2	14000	2.1
#6	1,1-Dichloroethane	00075-34-3	na	0.63
#7	Trichloroethene (TCE)	00079-01-6	14000	5.0E-01
#8	Hexachlorobutadiene	00087-68-3	na	4.5E-02
#9	Tetrachloroethene (PCE)	00127-18-4	1000	1.0

Air Guide 1 computer model input values for common riser physical parameters and building dimensions are as follows:

Stack Height, ft:	75
Height above Structure, ft:	2
Stack Inside Diameter, in:	4
Exhaust Volume, acfm:	0.05 (default worst case)
Exhaust Velocity, fps:	0.01 (default worst case)
Exhaust Temperature, F^{o}:	70 (assumed ambient)
Distance to Property Line, ft:	1
Building Width, ft:	1227 (approximate)
Building Length, ft:	1500 (approximate)

Exhaust volumes (acfm) were measured using a TSI VelociCalc Plus Multi-Parameter Ventilation Meter Model 8386. Hourly and annual mass emission rates, by riser, were calculated from laboratory contaminant concentration results and measured flow. The mass emission rates for individual manifolded risers were then combined to derive mass emissions rates for the three (3) fan/blower exhausts. Calculations are demonstrated in attached spreadsheet "DestiNY 031914.xls." In those instances for analytical results of less than the Reportable Detection Limit (<RDL), the Reportable Detection Limit was selected as the concentration for mass emission rate calculations purposes. This highly conservative assumption is biased toward overly higher predicted impact results and should be taken into consideration in interpreting the results. The computer screening model input file for this analysis is identified as "031914-1.run".

Below is a computer "screen capture" of the DAR-1 program run file results titled *Contaminant Assessment Summary* for the nine compounds for which the analysis was run.

AirGuide-1

CONTAMINANT ASSESSMENT SUMMARY OF DAR-1 ANALYSIS 3/19/14
Page 1

CAS NUMBER	AGC ug/m3	SHORT-TERM MAXIMUM (Cav,Pt,Area) % OF SGC	CAVITY ACTUAL ANNUAL % OF AGC	POINT or AREA SOURCE POTENTIAL ANNUAL % OF AGC	ACTUAL ANNUAL % OF AGC
00056-23-5	0.17000000	0.0001	0.0000	0.0331	0.0332
00067-66-3	0.04300000	0.0021	0.0000	0.1539	0.1541
00071-43-2	0.13000000	0.0001	0.0000	0.0220	0.0220
00075-01-4	0.11000000	0.0000	0.0000	0.0208	0.0208
00075-09-2	2.10000000	0.0000	0.0000	0.0035	0.0035
00075-34-3	0.63000000	0.0000	0.0000	0.0057	0.0057
00079-01-6	0.50000000	0.0016	0.0000	0.9267	0.9277
00087-68-3	0.04500000	0.0000	0.0000	0.2121	0.2122
00127-18-4	1.00000000	0.0003	0.0000	0.0065	0.0065
SUMMARY TOTALS		0.0043	0.0000	1.3843	1.3857

END OF FILE: Type "X" and Press Enter to EXIT :

All predicted maximum short-term, cavity, point, or area source impacts are less than 0.01% of the Short-term Guideline Concentration values (SGCs) for all contaminants modeled, demonstrating that the SSDS does not pose any adverse environmental air toxic impacts to the general public. Reinforcing this conclusion, all predicted actual annual impacts are less than 1% of their corresponding Annual Guideline Concentration values (AGCs), and the sum of the constituent percentages is less than 2% sum of the the constituent guideline concentration values.

DestiNY DAR-1 Air Toxics Evaluation
Sub-Slab Depressurization System (SSDS)
DestiNY USA, City of Syracuse, Onondaga County, New York
Samples and Riser Data Collected: 3/5/2014 (Risers A & B); 7/12/2013 (Risers C, D, E & F)

Riser ID	A	B	C	D	E	F
Exhaust Velocity, fps	-----	-----	-----	-----	-----	-----
Flow Rate [(1)], cfm:	**20.0**	**64.0**	20.0	84.0	45.4	49.2

Contaminant #1: Name - CAS#	Carbon tetrachloride			00056-23-5		
Concentration, ug/m^3	62.90	15.73	3.15	25.2	3.15	3.15
Mass Emission Rate, lb/hr	4.71E-06	3.77E-06	2.36E-07	7.92E-06	5.36E-07	5.81E-07
Mass Emission Rate, lb/yr	4.13E-02	3.30E-02	2.07E-03	6.94E-02	4.69E-03	5.09E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	8.48E-06	Vac 1(C+D)	8.15E-06	Vac 1(E+F)	1.12E-06
Mass Emission Rate, lb/yr	Vac 1(A+B)	7.43E-02	Vac 1(C+D)	7.14E-02	Vac 1(E+F)	9.78E-03

Contaminant #2: Name - CAS#	Chloroform			00067-66-3		
Concentration, ug/m^3	48.67	12.17	2.43	21.03	42.34	1.60
Mass Emission Rate, lb/hr	3.65E-06	2.92E-06	1.82E-07	6.62E-06	7.20E-06	2.95E-07
Mass Emission Rate, lb/yr	3.19E-02	2.56E-02	1.59E-03	5.80E-02	6.31E-02	2.58E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	6.56E-06	Vac 1(C+D)	6.80E-06	Vac 1(E+F)	7.50E-06
Mass Emission Rate, lb/yr	Vac 1(A+B)	5.75E-02	Vac 1(C+D)	5.96E-02	Vac 1(E+F)	6.57E-02

Contaminant #3: Name - CAS#	Benzene			00071-43-2		
Concentration, ug/m^3	31.90	7.98	1.60	12.76	1.60	1.6
Mass Emission Rate, lb/hr	2.39E-06	1.91E-06	1.20E-07	4.02E-06	2.72E-07	2.95E-07
Mass Emission Rate, lb/yr	2.09E-02	1.68E-02	1.05E-03	3.52E-02	2.38E-03	2.58E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	4.30E-06	Vac 1(C+D)	4.14E-06	Vac 1(E+F)	5.67E-07
Mass Emission Rate, lb/yr	Vac 1(A+B)	3.77E-02	Vac 1(C+D)	3.62E-02	Vac 1(E+F)	4.97E-03

Contaminant #4: Name - CAS#	Vinyl Chloride			00075-01-4		
Concentration, ug/m^3	25.56	6.39	1.28	10.22	1.28	1.28
Mass Emission Rate, lb/hr	1.92E-06	1.53E-06	9.59E-08	3.22E-06	2.18E-07	2.36E-07
Mass Emission Rate, lb/yr	1.68E-02	1.34E-02	8.40E-04	2.82E-02	1.91E-03	2.07E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	3.45E-06	Vac 1(C+D)	3.31E-06	Vac 1(E+F)	4.54E-07
Mass Emission Rate, lb/yr	Vac 1(A+B)	3.02E-02	Vac 1(C+D)	2.90E-02	Vac 1(E+F)	3.97E-03

Contaminant #5: Name - CAS#	Methylene Chloride			00075-09-2		
Concentration, ug/m^3	34.72	8.68	10.24	16.85	9.03	59.38
Mass Emission Rate, lb/hr	2.60E-06	2.08E-06	7.67E-07	5.30E-06	1.54E-06	1.09E-05
Mass Emission Rate, lb/yr	2.28E-02	1.82E-02	6.72E-03	4.64E-02	1.35E-02	9.59E-02
Mass Emission Rate, lb/hr	Vac 1(A+B)	4.68E-06	Vac 1(C+D)	6.07E-06	Vac 1(E+F)	1.25E-05
Mass Emission Rate, lb/yr	Vac 1(A+B)	4.10E-02	Vac 1(C+D)	5.32E-02	Vac 1(E+F)	1.09E-01

DestiNY DAR-1 Air Toxics Evaluation
Sub-Slab Depressurization System (SSDS)
DestiNY USA, City of Syracuse, Onondaga County, New York
Samples and Riser Data Collected: 3/5/2014 (Risers A & B); 7/12/2013 (Risers C, D, E & F)

Riser ID	A	B	C	D	E	F
Exhaust Velocity, fps	-----	-----	-----	-----	-----	-----
Flow Rate [(1)], cfm:	**20.0**	**64.0**	20.0	84.0	45.4	49.2

Contaminant #6: Name - CAS#	1,1-Dichloroethane			00075-34-3		
Concentration, ug/m^3	39.67	9.92	2.02	16.20	2.02	2.02
Mass Emission Rate, lb/hr	2.97E-06	2.38E-06	1.51E-07	5.10E-06	3.44E-07	3.72E-07
Mass Emission Rate, lb/yr	2.60E-02	2.08E-02	1.33E-03	4.47E-02	3.01E-03	3.26E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	5.35E-06	Vac 1(C+D)	5.25E-06	Vac 1(E+F)	7.16E-07
Mass Emission Rate, lb/yr	Vac 1(A+B)	4.69E-02	Vac 1(C+D)	4.60E-02	Vac 1(E+F)	6.27E-03

Contaminant #7: Name - CAS#	Trichloroethene (TCE)			00079-01-6		
Concentration, ug/m^3	13,220.61	1,897.10	5.37	21.50	13.11	8.87
Mass Emission Rate, lb/hr	9.91E-04	4.55E-04	4.02E-07	6.77E-06	2.23E-06	1.63E-06
Mass Emission Rate, lb/yr	8.68E+00	3.98E+00	3.52E-03	5.93E-02	1.95E-02	1.43E-02
Mass Emission Rate, lb/hr	Vac 1(A+B)	1.45E-03	Vac 1(C+D)	7.17E-06	Vac 1(E+F)	3.86E-06
Mass Emission Rate, lb/yr	Vac 1(A+B)	1.27E+01	Vac 1(C+D)	6.28E-02	Vac 1(E+F)	3.39E-02

Contaminant #8: Name - CAS#	Hexachlorobutadiene			00087-68-3		
Concentration, ug/m^3	106.63	26.66	5.33	42.65	5.33	5.33
Mass Emission Rate, lb/hr	7.99E-06	6.39E-06	3.99E-07	1.34E-05	9.07E-07	9.82E-07
Mass Emission Rate, lb/yr	7.00E-02	5.60E-02	3.50E-03	1.18E-01	7.94E-03	8.61E-03
Mass Emission Rate, lb/hr	Vac 1(A+B)	1.44E-05	Vac 1(C+D)	1.38E-05	Vac 1(E+F)	1.89E-06
Mass Emission Rate, lb/yr	Vac 1(A+B)	1.26E-01	Vac 1(C+D)	1.21E-01	Vac 1(E+F)	1.65E-02

Contaminant #9: Name - CAS#	Tetrachloroethene (PCE)			00127-18-4		
Concentration, ug/m^3	67.81	16.61	4.61	27.12	8.54	6.37
Mass Emission Rate, lb/hr	5.08E-06	3.98E-06	3.45E-07	8.53E-06	1.45E-06	1.17E-06
Mass Emission Rate, lb/yr	4.45E-02	3.49E-02	3.03E-03	7.48E-02	1.27E-02	1.03E-02
Mass Emission Rate, lb/hr	Vac 1(A+B)	9.06E-06	Vac 1(C+D)	8.88E-06	Vac 1(E+F)	2.63E-06
Mass Emission Rate, lb/yr	Vac 1(A+B)	7.94E-02	Vac 1(C+D)	7.78E-02	Vac 1(E+F)	2.30E-02

APPENDIX B
PFE RETEST

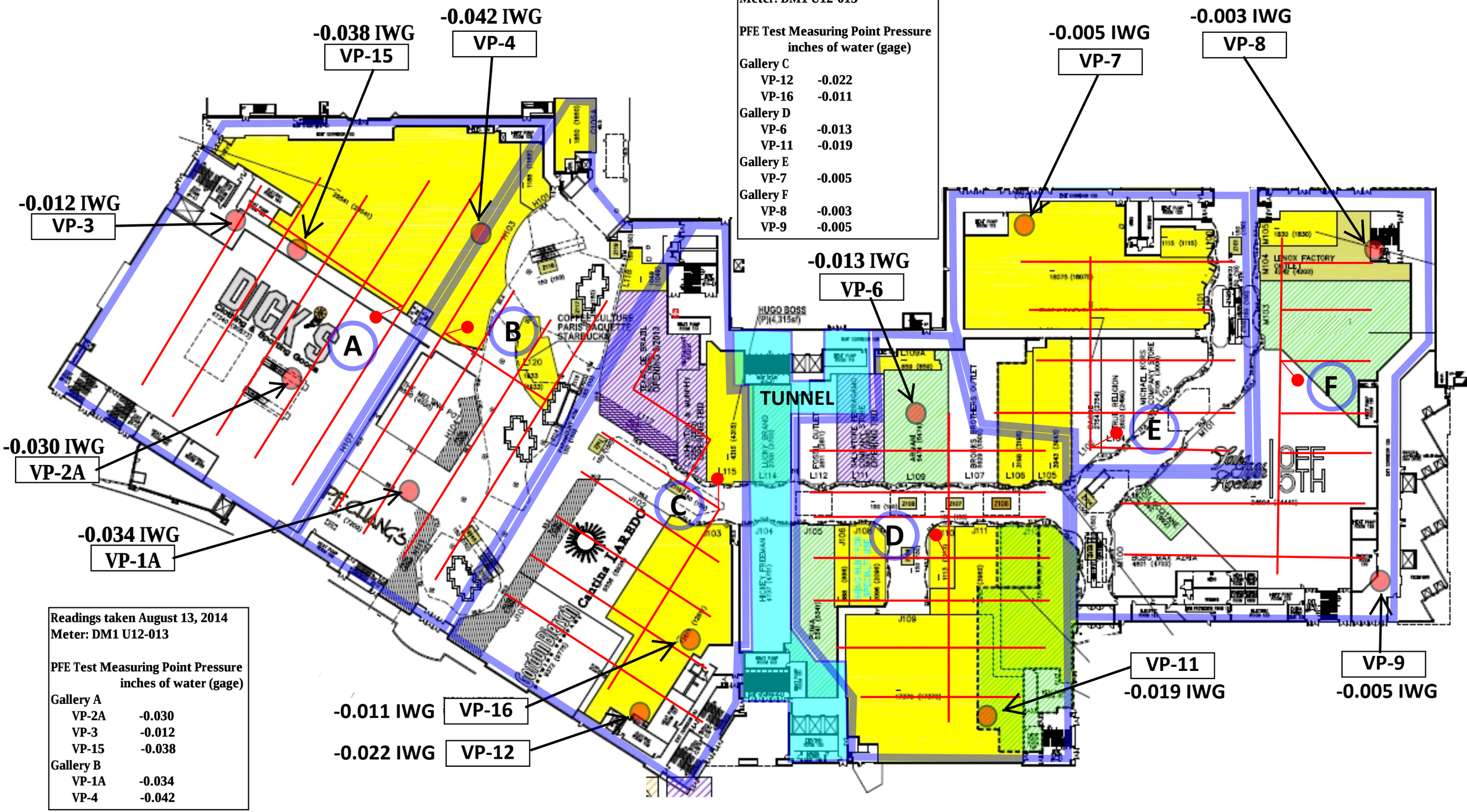
Destiny Phase I Pressure Field Extension Tests

Instrument: Infiltec Micro-manometer Model DM1 Serial No. 162301

Differential Pressure in inches of water (in-H2O)

Monitoring Point	11/08/11	11/21/11	11/23/11 First Round	11/23/11 Second Round	08/06/13	08/13/14
1	0.000	-0.005	-0.006	-0.015	NA	NA
2	-0.004	-0.003	-0.002	-0.015	NA	NA
1A	------	------	------	------	------	-0.034
2A	------	------	------	------	------	-0.03
3	------	-0.003	-0.002	-0.015	-0.003	-0.012
4	-0.003	-0.019	-0.005	-0.007	-0.002	-0.042
5	-0.003	-0.015	-0.005	------	NA	NA
6	-0.018	-0.025 to -0.032	-0.023	------	-0.013	------
7	-0.007	-0.022	-0.023	------	-0.005	------
8	-0.003	-0.033	-0.023	------	-0.003	------
9	-0.007	-0.009	-0.023	------	-0.005	------
10	-0.017	-0.038	-0.009	------	NA	NA
11	-0.035	-0.040	-0.092	------	-0.019	------
12	-0.002	-0.004	-0.006	------	-0.022	------
13	-0.005	-0.005	-0.005	------	NA	NA
14	------	-0.016	-0.010	------	NA	NA
15	------	-0.008 to -0.040	-0.009 to -0.033	------	-0.026	-0.038
16	------	-0.012	-0.006	------	-0.011	------
	6 AXIAL FANS				3 REGENERATIVE BLOWERS	

NA - Not Accessible



Readings taken August 6, 2013
Meter: DM1 U12-013

PFE Test Measuring Point Pressure inches of water (gage)

Gallery C	
VP-12	-0.022
VP-16	-0.011
Gallery D	
VP-6	-0.013
VP-11	-0.019
Gallery E	
VP-7	-0.005
Gallery F	
VP-8	-0.003
VP-9	-0.005

Readings taken August 13, 2014
Meter: DM1 U12-013

PFE Test Measuring Point Pressure inches of water (gage)

Gallery A	
VP-2A	-0.030
VP-3	-0.012
VP-15	-0.038
Gallery B	
VP-1A	-0.034
VP-4	-0.042

APPENDIX C

AIR ANALYSIS LABORATORY REPORT

Report Date:
14-Mar-14 17:38

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Spectra Environmental
19 British American Blvd
Latham, NY 12110
Attn: Paul Adel

Project: Destiny USA - Syracuse, NY
Project #: 12144

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SB85508-01	Riser A	Summa canister 3.2 liter	Collection Grab	05-Mar-14 11:00	05-Mar-14 21:00
SB85508-02	Duplicate	Summa canister 3.2 liter	Collection Grab	05-Mar-14 00:00	05-Mar-14 21:00
SB85508-03	Riser B	Summa canister 3.2 liter	Collection Grab	05-Mar-14 11:05	05-Mar-14 21:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 24 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

Calibration:

1403004

Analyte quantified by quadratic equation type calibration.

2-Hexanone (MBK)
4-Isopropyltoluene
Ethanol
Naphthalene
n-Butylbenzene

This affected the following samples:

1405236-BLK1
1405236-BS1
1405433-BLK1
1405433-BS1
Duplicate
Riser A
Riser B
S402255-ICV1
S402457-CCV1
S402531-CCV1

S402255-ICV1

Analyte percent recovery is outside individual acceptance criteria (70-130).

Bromoform (68%)
Hexachlorobutadiene (65%)

This affected the following samples:

1405236-BLK1
1405236-BS1
1405433-BLK1
1405433-BS1
Duplicate
Riser A
Riser B
S402457-CCV1
S402531-CCV1

Samples:

SB85508-01 *Riser A*

Can received at 0 PSI.

EPA TO-15

Samples:

SB85508-01 *Riser A*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SB85508-01RE1 *Riser A*

Analyte is common laboratory background contaminant when dilutions are required for sample analysis; dilutions are performed in Tedlar bags

Acetone
Ethanol
Hexane
Isopropyl alcohol

Can received at 0 PSI.

Data confirmed with duplicate analysis.

Trichloroethene

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB85508-02 *Duplicate*

Can received at 0 PSI.

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SB85508-02RE1 *Duplicate*

Analyte is common laboratory background contaminant when dilutions are required for sample analysis; dilutions are performed in Tedlar bags

2-Butanone (MEK)
Acetone
Ethanol
Hexane
Isopropyl alcohol
Toluene

Can received at 0 PSI.

Data confirmed with duplicate analysis.

Trichloroethene

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB85508-03 *Riser B*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	Spectra Environmental - Latham, NY
Project:	Destiny USA - Syracuse, NY / 12144
Work Order:	SB85508
Sample(s) received on:	3/5/2014
Received by:	Elie Makhoul

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☐	☐	☑
4. Were samples cooled on ice upon transfer to laboratory representative?	☐	☐	☑
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☐	☑
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser A	12144	Collection Grab	05-Mar-14 11:00	05-Mar-14
SB85508-01				

Air Quality Analyses

Volatile Organics in Air — ppbv — Prepared 11-Mar-14 — Dilution: 20 — GS1 — Can pressure: 0 — Can ID: 0130

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 4.26	10.0	< 7.33	17.21	U, D	EPA TO-15	12-Mar-14	JEG	1405236	
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.60	10.0	< 32.64	49.45	U, D	"	"	"	"	X
74-87-3	Chloromethane	< 7.50	10.0	< 15.49	20.65	U, D	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 7.30	10.0	< 51.03	69.90	U, D	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.88	10.0	< 20.14	25.56	U, D	"	"	"	"	X
106-99-0	1,3-Butadiene	< 7.54	10.0	< 16.65	22.09	U, D	"	"	"	"	X
74-83-9	Bromomethane	< 5.96	10.0	< 23.13	38.81	U, D	"	"	"	"	X
75-00-3	Chloroethane	< 8.96	10.0	< 23.64	26.38	U, D	"	"	"	"	X
67-64-1	Acetone	17.8	10.0	42.30	23.76	D	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.94	10.0	< 50.24	56.20	U, D	"	"	"	"	X
64-17-5	Ethanol	45.0	10.0	84.85	18.85	D	"	"	"	"	
107-13-1	Acrylonitrile	< 7.66	10.0	< 16.60	21.68	U, D	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.46	10.0	< 29.60	39.67	U, D	"	"	"	"	X
75-09-2	Methylene chloride	< 8.86	10.0	< 30.77	34.72	U, D	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.38	10.0	< 56.56	76.65	U, D	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.44	10.0	< 23.16	31.12	U, D	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.26	10.0	< 16.89	39.65	U, D	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.00	10.0	< 16.20	40.49	U, D	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.38	10.0	< 12.19	36.07	U, D	"	"	"	"	X
67-63-0	Isopropyl alcohol	5.40	10.0	13.25	24.54	J, D	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.16	10.0	< 21.11	29.49	U, D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	67.0	10.0	265.67	39.65	D	"	"	"	"	X
110-54-3	Hexane	< 4.34	10.0	< 15.30	35.26	U, D	"	"	"	"	X
141-78-6	Ethyl acetate	< 5.50	10.0	< 19.82	36.03	U, D	"	"	"	"	
67-66-3	Chloroform	< 5.68	10.0	< 27.64	48.67	U, D	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.40	10.0	< 12.98	29.49	U, D	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.08	10.0	< 20.57	40.49	U, D	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.92	10.0	< 21.39	54.56	U, D	"	"	"	"	X
71-43-2	Benzene	< 3.22	10.0	< 10.27	31.90	U, D	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.16	10.0	< 26.17	62.90	U, D	"	"	"	"	X
110-82-7	Cyclohexane	< 3.50	10.0	< 12.05	34.42	U, D	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.92	10.0	< 18.12	46.22	U, D	"	"	"	"	X
75-27-4	Bromodichloromethane	17.6	10.0	117.91	66.99	D	"	"	"	"	X
79-01-6	Trichloroethene	2460	10.0	13220.61	53.74	D, E	"	"	"	"	X
123-91-1	1,4-Dioxane	< 5.30	10.0	< 19.08	35.99	U, D	"	"	"	"	X
142-82-5	n-Heptane	< 3.66	10.0	< 15.00	40.98	U, D	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.00	10.0	< 20.49	40.98	U, D	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.40	10.0	< 15.44	45.40	U, D	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.98	10.0	< 13.53	45.40	U, D	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.24	10.0	< 28.59	54.56	U, D	"	"	"	"	X
108-88-3	Toluene	< 3.78	10.0	< 14.22	37.63	U, D	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 3.08	10.0	< 12.62	40.98	U, D	"	"	"	"	
124-48-1	Dibromochloromethane	< 3.68	10.0	< 31.35	85.19	U, D	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.10	10.0	< 46.88	76.85	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser A	12144	Collection Grab	05-Mar-14 11:00	05-Mar-14
SB85508-01				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 11-Mar-14 Dilution: 20			GS1	Can pressure: 0 Can ID: 0130				
127-18-4	Tetrachloroethene	< 4.02	10.0	< 27.26	67.81	U, D	EPA TO-15	12-Mar-14	JEG	1405236	X
108-90-7	Chlorobenzene	< 5.80	10.0	< 26.71	46.05	U, D	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.54	10.0	< 31.20	68.71	U, D	"	"	"	"	
100-41-4	Ethylbenzene	< 3.90	10.0	< 16.91	43.35	U, D	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.88	20.0	< 42.83	86.71	U, D	"	"	"	"	X
75-25-2	Bromoform	< 4.44	10.0	< 45.89	103.35	U, D	"	"	"	"	X
100-42-5	Styrene	< 4.94	10.0	< 21.01	42.54	U, D	"	"	"	"	X
95-47-6	o-Xylene	< 6.10	10.0	< 26.45	43.35	U, D	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.46	10.0	< 37.49	68.67	U, D	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.06	10.0	< 24.88	49.16	U, D	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.84	10.0	< 28.71	49.16	U, D	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 4.74	10.0	< 23.30	49.16	U, D	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 3.34	10.0	< 16.42	49.16	U, D	"	"	"	"	X
91-20-3	Naphthalene	< 3.46	10.0	< 18.11	52.35	U, D	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.46	10.0	< 32.83	60.12	U, D	"	"	"	"	X
100-44-7	Benzyl chloride	< 3.56	10.0	< 18.35	51.53	U, D	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.30	10.0	< 25.85	60.12	U, D	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.86	10.0	< 26.68	54.89	U, D	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 4.78	10.0	< 25.65	53.66	U, D	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.64	10.0	< 27.90	60.12	U, D	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.88	10.0	< 26.79	54.89	U, D	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 3.68	10.0	< 27.32	74.23	U, D	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.68	10.0	< 49.90	106.63	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	
Re-analysis of Volatile Organics in Air			Dilution: 61			GS1					
115-07-1	Propene	< 13.0	30.5	< 22.37	52.49	U, D	EPA TO-15	13-Mar-14	JEG	1405433	
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.1	30.5	< 99.39	150.82	U, D	"	"	"	"	X
74-87-3	Chloromethane	< 22.9	30.5	< 47.30	63.00	U, D	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 22.3	30.5	< 155.87	213.19	U, D	"	"	"	"	X
75-01-4	Vinyl chloride	< 24.0	30.5	< 61.35	77.97	U, D	"	"	"	"	X
106-99-0	1,3-Butadiene	< 23.0	30.5	< 50.80	67.36	U, D	"	"	"	"	X
74-83-9	Bromomethane	< 18.2	30.5	< 70.64	118.38	U, D	"	"	"	"	X
75-00-3	Chloroethane	< 27.3	30.5	< 72.02	80.46	U, D	"	"	"	"	X
67-64-1	Acetone	**132**	30.5	**313.67**	72.48	TBD, D	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 27.3	30.5	< 153.42	171.40	U, D	"	"	"	"	X
64-17-5	Ethanol	**131**	30.5	**247.00**	57.51	TBD, D	"	"	"	"	
107-13-1	Acrylonitrile	< 23.4	30.5	< 50.72	66.11	U, D	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 22.8	30.5	< 90.45	121.00	U, D	"	"	"	"	X
75-09-2	Methylene chloride	< 27.0	30.5	< 93.75	105.91	U, D	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 22.5	30.5	< 172.45	233.77	U, D	"	"	"	"	X
75-15-0	Carbon disulfide	< 22.7	30.5	< 70.65	94.93	U, D	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 13.0	30.5	< 51.55	120.94	U, D	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 12.2	30.5	< 49.40	123.50	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser A	12144	Collection Grab	05-Mar-14 11:00	05-Mar-14
SB85508-01				

Air Quality Analyses

Volatile Organics in Air — ppbv — Prepared 13-Mar-14 — Dilution: 61 — GS1 — Can pressure: 0

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
1634-04-4	Methyl tert-butyl ether	< 10.3	30.5	< 37.16	110.02	U, D	EPA TO-15	13-Mar-14	JEG	1405433	X
67-63-0	Isopropyl alcohol	**58.6**	30.5	**143.80**	74.85	TBD, D	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 21.8	30.5	< 64.29	89.94	U, D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**31.7**	30.5	**125.70**	120.94	D	"	"	"	"	X
110-54-3	Hexane	**15.2**	30.5	**53.59**	107.53	TBD, J, D	"	"	"	"	X
141-78-6	Ethyl acetate	< 16.8	30.5	< 60.53	109.90	U, D	"	"	"	"	
67-66-3	Chloroform	< 17.3	30.5	< 84.20	148.45	U, D	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.4	30.5	< 39.51	89.94	U, D	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 15.5	30.5	< 62.76	123.50	U, D	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 12.0	30.5	< 65.47	166.41	U, D	"	"	"	"	X
71-43-2	Benzene	< 9.82	30.5	< 31.33	97.30	U, D	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 12.7	30.5	< 79.89	191.86	U, D	"	"	"	"	X
110-82-7	Cyclohexane	< 10.7	30.5	< 36.83	104.98	U, D	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 12.0	30.5	< 55.46	140.96	U, D	"	"	"	"	X
75-27-4	Bromodichloromethane	< 12.9	30.5	< 86.42	204.33	U, D	"	"	"	"	X
79-01-6	Trichloroethene	**1020**	30.5	**5481.72**	163.91	V11, D	"	"	"	"	X
123-91-1	1,4-Dioxane	< 16.2	30.5	< 58.31	109.78	U, D	"	"	"	"	X
142-82-5	n-Heptane	< 11.2	30.5	< 45.90	124.99	U, D	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.2	30.5	< 62.29	124.99	U, D	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 10.4	30.5	< 47.21	138.47	U, D	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 9.09	30.5	< 41.27	138.47	U, D	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 16.0	30.5	< 87.30	166.41	U, D	"	"	"	"	X
108-88-3	Toluene	< 11.5	30.5	< 43.27	114.76	U, D	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.39	30.5	< 38.48	124.99	U, D	"	"	"	"	
124-48-1	Dibromochloromethane	< 11.2	30.5	< 95.42	259.84	U, D	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 18.6	30.5	< 142.94	234.39	U, D	"	"	"	"	X
127-18-4	Tetrachloroethene	< 12.3	30.5	< 83.41	206.83	U, D	"	"	"	"	X
108-90-7	Chlorobenzene	< 17.7	30.5	< 81.51	140.46	U, D	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 13.8	30.5	< 94.82	209.57	U, D	"	"	"	"	
100-41-4	Ethylbenzene	< 11.9	30.5	< 51.59	132.23	U, D	"	"	"	"	X
179601-23-1	m,p-Xylene	< 30.1	61.0	< 130.49	264.46	U, D	"	"	"	"	X
75-25-2	Bromoform	< 13.5	30.5	< 139.53	315.23	U, D	"	"	"	"	X
100-42-5	Styrene	< 15.1	30.5	< 64.23	129.73	U, D	"	"	"	"	X
95-47-6	o-Xylene	< 18.6	30.5	< 80.64	132.23	U, D	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 16.7	30.5	< 114.68	209.45	U, D	"	"	"	"	X
98-82-8	Isopropylbenzene	< 15.4	30.5	< 75.71	149.94	U, D	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 17.8	30.5	< 87.51	149.94	U, D	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 14.5	30.5	< 71.28	149.94	U, D	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 10.2	30.5	< 50.14	149.94	U, D	"	"	"	"	X
91-20-3	Naphthalene	< 10.6	30.5	< 55.49	159.67	U, D	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 16.7	30.5	< 100.40	183.37	U, D	"	"	"	"	X
100-44-7	Benzyl chloride	< 10.9	30.5	< 56.17	157.18	U, D	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 13.1	30.5	< 78.76	183.37	U, D	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 14.8	30.5	< 81.23	167.41	U, D	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser A SB85508-01	12144	Collection Grab	05-Mar-14 11:00	05-Mar-14

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 13-Mar-14 Dilution: 61			GS1	Can pressure: 0				
99-87-6	4-Isopropyltoluene	< 14.6	30.5	< 78.34	163.66	U, D	EPA TO-15	13-Mar-14	JEG	1405433	
95-50-1	1,2-Dichlorobenzene	< 14.2	30.5	< 85.37	183.37	U, D	"	"	"	"	X
104-51-8	n-Butylbenzene	< 14.9	30.5	< 81.78	167.41	U, D	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 11.2	30.5	< 83.14	226.41	U, D	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 14.3	30.5	< 152.47	325.21	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SB85508-02	12144	Collection Grab	05-Mar-14 00:00	05-Mar-14

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 11-Mar-14 Dilution: 20			GS1	Can pressure: 0 Can ID: 0113				
115-07-1	Propene	< 4.26	10.0	< 7.33	17.21	U, D	EPA TO-15	12-Mar-14	JEG	1405236	
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.60	10.0	< 32.64	49.45	U, D	"	"	"	"	X
74-87-3	Chloromethane	< 7.50	10.0	< 15.49	20.65	U, D	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 7.30	10.0	< 51.03	69.90	U, D	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.88	10.0	< 20.14	25.56	U, D	"	"	"	"	X
106-99-0	1,3-Butadiene	< 7.54	10.0	< 16.65	22.09	U, D	"	"	"	"	X
74-83-9	Bromomethane	< 5.96	10.0	< 23.13	38.81	U, D	"	"	"	"	X
75-00-3	Chloroethane	< 8.96	10.0	< 23.64	26.38	U, D	"	"	"	"	X
67-64-1	Acetone	13.6	10.0	32.32	23.76	D	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.94	10.0	< 50.24	56.20	U, D	"	"	"	"	X
64-17-5	Ethanol	38.6	10.0	72.78	18.85	D	"	"	"	"	
107-13-1	Acrylonitrile	< 7.66	10.0	< 16.60	21.68	U, D	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.46	10.0	< 29.60	39.67	U, D	"	"	"	"	X
75-09-2	Methylene chloride	< 8.86	10.0	< 30.77	34.72	U, D	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.38	10.0	< 56.56	76.65	U, D	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.44	10.0	< 23.16	31.12	U, D	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.26	10.0	< 16.89	39.65	U, D	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.00	10.0	< 16.20	40.49	U, D	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.38	10.0	< 12.19	36.07	U, D	"	"	"	"	X
67-63-0	Isopropyl alcohol	5.00	10.0	12.27	24.54	J, D	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.16	10.0	< 21.11	29.49	U, D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	72.2	10.0	286.29	39.65	D	"	"	"	"	X
110-54-3	Hexane	< 4.34	10.0	< 15.30	35.26	U, D	"	"	"	"	X
141-78-6	Ethyl acetate	< 5.50	10.0	< 19.82	36.03	U, D	"	"	"	"	
67-66-3	Chloroform	< 5.68	10.0	< 27.64	48.67	U, D	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.40	10.0	< 12.98	29.49	U, D	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.08	10.0	< 20.57	40.49	U, D	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.92	10.0	< 21.39	54.56	U, D	"	"	"	"	X
71-43-2	Benzene	< 3.22	10.0	< 10.27	31.90	U, D	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.16	10.0	< 26.17	62.90	U, D	"	"	"	"	X
110-82-7	Cyclohexane	< 3.50	10.0	< 12.05	34.42	U, D	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.92	10.0	< 18.12	46.22	U, D	"	"	"	"	X
75-27-4	Bromodichloromethane	19.4	10.0	129.97	66.99	D	"	"	"	"	X
79-01-6	Trichloroethene	2640	10.0	14187.97	53.74	D, E	"	"	"	"	X
123-91-1	1,4-Dioxane	< 5.30	10.0	< 19.08	35.99	U, D	"	"	"	"	X
142-82-5	n-Heptane	< 3.66	10.0	< 15.00	40.98	U, D	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.00	10.0	< 20.49	40.98	U, D	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.40	10.0	< 15.44	45.40	U, D	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.98	10.0	< 13.53	45.40	U, D	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.24	10.0	< 28.59	54.56	U, D	"	"	"	"	X
108-88-3	Toluene	< 3.78	10.0	< 14.22	37.63	U, D	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 3.08	10.0	< 12.62	40.98	U, D	"	"	"	"	
124-48-1	Dibromochloromethane	< 3.68	10.0	< 31.35	85.19	U, D	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.10	10.0	< 46.88	76.85	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SB85508-02	12144	Collection Grab	05-Mar-14 00:00	05-Mar-14

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 11-Mar-14 Dilution: 20			GS1	Can pressure: 0 Can ID: 0113				
127-18-4	Tetrachloroethene	< 4.02	10.0	< 27.26	67.81	U, D	EPA TO-15	12-Mar-14	JEG	1405236	X
108-90-7	Chlorobenzene	< 5.80	10.0	< 26.71	46.05	U, D	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.54	10.0	< 31.20	68.71	U, D	"	"	"	"	
100-41-4	Ethylbenzene	< 3.90	10.0	< 16.91	43.35	U, D	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.88	20.0	< 42.83	86.71	U, D	"	"	"	"	X
75-25-2	Bromoform	< 4.44	10.0	< 45.89	103.35	U, D	"	"	"	"	X
100-42-5	Styrene	< 4.94	10.0	< 21.01	42.54	U, D	"	"	"	"	X
95-47-6	o-Xylene	< 6.10	10.0	< 26.45	43.35	U, D	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.46	10.0	< 37.49	68.67	U, D	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.06	10.0	< 24.88	49.16	U, D	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.84	10.0	< 28.71	49.16	U, D	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 4.74	10.0	< 23.30	49.16	U, D	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 3.34	10.0	< 16.42	49.16	U, D	"	"	"	"	X
91-20-3	Naphthalene	< 3.46	10.0	< 18.11	52.35	U, D	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.46	10.0	< 32.83	60.12	U, D	"	"	"	"	X
100-44-7	Benzyl chloride	< 3.56	10.0	< 18.35	51.53	U, D	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.30	10.0	< 25.85	60.12	U, D	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.86	10.0	< 26.68	54.89	U, D	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 4.78	10.0	< 25.65	53.66	U, D	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.64	10.0	< 27.90	60.12	U, D	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.88	10.0	< 26.79	54.89	U, D	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 3.68	10.0	< 27.32	74.23	U, D	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.68	10.0	< 49.90	106.63	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	
Re-analysis of Volatile Organics in Air			Dilution: 61.5			GS1					
115-07-1	Propene	< 13.1	30.8	< 22.55	53.01	U, D	EPA TO-15	13-Mar-14	JEG	1405433	
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.3	30.8	< 100.38	152.30	U, D	"	"	"	"	X
74-87-3	Chloromethane	< 23.1	30.8	< 47.71	63.62	U, D	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 22.4	30.8	< 156.57	215.29	U, D	"	"	"	"	X
75-01-4	Vinyl chloride	< 24.2	30.8	< 61.86	78.73	U, D	"	"	"	"	X
106-99-0	1,3-Butadiene	< 23.2	30.8	< 51.24	68.02	U, D	"	"	"	"	X
74-83-9	Bromomethane	< 18.3	30.8	< 71.03	119.55	U, D	"	"	"	"	X
75-00-3	Chloroethane	< 27.6	30.8	< 72.81	81.25	U, D	"	"	"	"	X
67-64-1	Acetone	**194**	30.8	**461.00**	73.19	TBD, D	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 27.5	30.8	< 154.54	173.08	U, D	"	"	"	"	X
64-17-5	Ethanol	**122**	30.8	**230.03**	58.07	TBD, D	"	"	"	"	
107-13-1	Acrylonitrile	< 23.6	30.8	< 51.16	66.76	U, D	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 22.9	30.8	< 90.85	122.19	U, D	"	"	"	"	X
75-09-2	Methylene chloride	< 27.2	30.8	< 94.45	106.95	U, D	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 22.7	30.8	< 173.99	236.07	U, D	"	"	"	"	X
75-15-0	Carbon disulfide	< 22.9	30.8	< 71.28	95.86	U, D	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 13.1	30.8	< 51.94	122.13	U, D	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 12.3	30.8	< 49.80	124.71	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SB85508-02	12144	Collection Grab	05-Mar-14 00:00	05-Mar-14

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 13-Mar-14 Dilution: 61.5			GS1	Can pressure: 0				
1634-04-4	Methyl tert-butyl ether	< 10.4	30.8	< 37.52	111.11	U, D	EPA TO-15	13-Mar-14	JEG	1405433	X
67-63-0	Isopropyl alcohol	**28.3**	30.8	**69.45**	75.58	TBD, J, D	"	"	"	"	X
78-93-3	2-Butanone (MEK)	**48.0**	30.8	**141.55**	90.83	TBD, D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**23.4**	30.8	**92.79**	122.13	J, D	"	"	"	"	X
110-54-3	Hexane	**18.4**	30.8	**64.87**	108.59	TBD, J, D	"	"	"	"	X
141-78-6	Ethyl acetate	< 16.9	30.8	< 60.90	110.98	U, D	"	"	"	"	
67-66-3	Chloroform	< 17.5	30.8	< 85.17	149.91	U, D	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.5	30.8	< 39.81	90.83	U, D	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 15.6	30.8	< 63.17	124.71	U, D	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 12.1	30.8	< 66.02	168.05	U, D	"	"	"	"	X
71-43-2	Benzene	< 9.90	30.8	< 31.58	98.26	U, D	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 12.8	30.8	< 80.52	193.74	U, D	"	"	"	"	X
110-82-7	Cyclohexane	< 10.8	30.8	< 37.17	106.02	U, D	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 12.1	30.8	< 55.92	142.35	U, D	"	"	"	"	X
75-27-4	Bromodichloromethane	< 13.0	30.8	< 87.09	206.34	U, D	"	"	"	"	X
79-01-6	Trichloroethene	**732**	30.8	**3933.94**	165.53	V11, D	"	"	"	"	X
123-91-1	1,4-Dioxane	< 16.3	30.8	< 58.67	110.85	U, D	"	"	"	"	X
142-82-5	n-Heptane	< 11.3	30.8	< 46.31	126.22	U, D	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.4	30.8	< 63.11	126.22	U, D	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 10.5	30.8	< 47.67	139.83	U, D	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 9.16	30.8	< 41.59	139.83	U, D	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 16.1	30.8	< 87.84	168.05	U, D	"	"	"	"	X
108-88-3	Toluene	**20.9**	30.8	**78.64**	115.89	TBD, J, D	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.47	30.8	< 38.81	126.22	U, D	"	"	"	"	
124-48-1	Dibromochloromethane	< 11.3	30.8	< 96.27	262.40	U, D	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 18.8	30.8	< 144.48	236.70	U, D	"	"	"	"	X
127-18-4	Tetrachloroethene	< 12.4	30.8	< 84.09	208.86	U, D	"	"	"	"	X
108-90-7	Chlorobenzene	< 17.8	30.8	< 81.97	141.84	U, D	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 14.0	30.8	< 96.20	211.63	U, D	"	"	"	"	
100-41-4	Ethylbenzene	< 12.0	30.8	< 52.02	133.53	U, D	"	"	"	"	X
179601-23-1	m,p-Xylene	< 30.4	61.5	< 131.80	266.63	U, D	"	"	"	"	X
75-25-2	Bromoform	< 13.7	30.8	< 141.59	318.33	U, D	"	"	"	"	X
100-42-5	Styrene	< 15.2	30.8	< 64.65	131.01	U, D	"	"	"	"	X
95-47-6	o-Xylene	< 18.8	30.8	< 81.51	133.53	U, D	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 16.8	30.8	< 115.37	211.51	U, D	"	"	"	"	X
98-82-8	Isopropylbenzene	< 15.6	30.8	< 76.69	151.42	U, D	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 18.0	30.8	< 88.49	151.42	U, D	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 14.6	30.8	< 71.78	151.42	U, D	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 10.3	30.8	< 50.64	151.42	U, D	"	"	"	"	X
91-20-3	Naphthalene	< 10.6	30.8	< 55.49	161.24	U, D	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 16.8	30.8	< 101.01	185.18	U, D	"	"	"	"	X
100-44-7	Benzyl chloride	< 10.9	30.8	< 56.17	158.72	U, D	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 13.2	30.8	< 79.36	185.18	U, D	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 14.9	30.8	< 81.78	169.05	U, D	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SB85508-02	12144	Collection Grab	05-Mar-14 00:00	05-Mar-14

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 13-Mar-14 Dilution: 61.5			GS1	Can pressure: 0				
99-87-6	4-Isopropyltoluene	< 14.7	30.8	< 78.88	165.27	U, D	EPA TO-15	13-Mar-14	JEG	1405433	
95-50-1	1,2-Dichlorobenzene	< 14.3	30.8	< 85.98	185.18	U, D	"	"	"	"	X
104-51-8	n-Butylbenzene	< 15.0	30.8	< 82.33	169.05	U, D	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 11.3	30.8	< 83.88	228.64	U, D	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 14.4	30.8	< 153.54	328.41	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser B	12144	Collection Grab	05-Mar-14 11:05	05-Mar-14
SB85508-03				

Air Quality Analyses

Volatile Organics in Air — ppbv — Prepared 13-Mar-14 — Dilution: 5 — GS1 — Can pressure: -1 — Can ID: 0125

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 1.06	2.50	< 1.82	4.30	U, D	EPA TO-15	13-Mar-14	JEG	1405433	
75-71-8	Dichlorodifluoromethane (Freon12)	< 1.65	2.50	< 8.16	12.36	U, D	"	"	"	"	X
74-87-3	Chloromethane	< 1.88	2.50	< 3.88	5.16	U, D	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 1.82	2.50	< 12.72	17.47	U, D	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.97	2.50	< 5.04	6.39	U, D	"	"	"	"	X
106-99-0	1,3-Butadiene	< 1.88	2.50	< 4.15	5.52	U, D	"	"	"	"	X
74-83-9	Bromomethane	< 1.49	2.50	< 5.78	9.70	U, D	"	"	"	"	X
75-00-3	Chloroethane	< 2.24	2.50	< 5.91	6.60	U, D	"	"	"	"	X
67-64-1	Acetone	13.6	2.50	32.32	5.94	D	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.24	2.50	< 12.59	14.05	U, D	"	"	"	"	X
64-17-5	Ethanol	22.2	2.50	41.86	4.71	D	"	"	"	"	
107-13-1	Acrylonitrile	< 1.92	2.50	< 4.16	5.42	U, D	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.86	2.50	< 7.38	9.92	U, D	"	"	"	"	X
75-09-2	Methylene chloride	< 2.22	2.50	< 7.71	8.68	U, D	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.84	2.50	< 14.10	19.16	U, D	"	"	"	"	X
75-15-0	Carbon disulfide	< 1.86	2.50	< 5.79	7.78	U, D	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.06	2.50	< 4.20	9.91	U, D	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	2.50	< 4.05	10.12	U, D	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.845	2.50	< 3.05	9.02	U, D	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.60	2.50	3.93	6.13	J, D	"	"	"	"	X
78-93-3	2-Butanone (MEK)	4.00	2.50	11.80	7.37	D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	7.85	2.50	31.13	9.91	D	"	"	"	"	X
110-54-3	Hexane	< 1.08	2.50	< 3.81	8.81	U, D	"	"	"	"	X
141-78-6	Ethyl acetate	< 1.38	2.50	< 4.97	9.01	U, D	"	"	"	"	
67-66-3	Chloroform	< 1.42	2.50	< 6.91	12.17	U, D	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.10	2.50	< 3.24	7.37	U, D	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.27	2.50	< 5.14	10.12	U, D	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.980	2.50	< 5.35	13.64	U, D	"	"	"	"	X
71-43-2	Benzene	< 0.805	2.50	< 2.57	7.98	U, D	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.04	2.50	< 6.54	15.73	U, D	"	"	"	"	X
110-82-7	Cyclohexane	< 0.875	2.50	< 3.01	8.61	U, D	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.980	2.50	< 4.53	11.55	U, D	"	"	"	"	X
75-27-4	Bromodichloromethane	2.55	2.50	17.08	16.75	D	"	"	"	"	X
79-01-6	Trichloroethene	353	2.50	1897.10	13.44	D	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1.32	2.50	< 4.75	9.00	U, D	"	"	"	"	X
142-82-5	n-Heptane	< 0.915	2.50	< 3.75	10.25	U, D	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1.25	2.50	< 5.12	10.25	U, D	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.850	2.50	< 3.86	11.35	U, D	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.745	2.50	< 3.38	11.35	U, D	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.31	2.50	< 7.15	13.64	U, D	"	"	"	"	X
108-88-3	Toluene	0.950	2.50	3.57	9.41	J, D	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.770	2.50	< 3.16	10.25	U, D	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.920	2.50	< 7.84	21.30	U, D	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.52	2.50	< 11.68	19.21	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Riser B SB85508-03	12144	Collection Grab	05-Mar-14 11:05	05-Mar-14

Air Quality Analyses

Volatile Organics in Air — ppbv — Prepared 13-Mar-14 — Dilution: 5 — GS1 — Can pressure: -1 — Can ID: 0125

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
127-18-4	Tetrachloroethene	**2.45**	2.50	**16.61**	16.95	J, D	EPA TO-15	13-Mar-14	JEG	1405433	X
108-90-7	Chlorobenzene	< 1.45	2.50	< 6.68	11.51	U, D	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.14	2.50	< 7.83	17.18	U, D	"	"	"	"	
100-41-4	Ethylbenzene	< 0.975	2.50	< 4.23	10.84	U, D	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.47	5.00	< 10.71	21.68	U, D	"	"	"	"	X
75-25-2	Bromoform	< 1.11	2.50	< 11.47	25.84	U, D	"	"	"	"	X
100-42-5	Styrene	< 1.24	2.50	< 5.27	10.63	U, D	"	"	"	"	X
95-47-6	o-Xylene	< 1.52	2.50	< 6.59	10.84	U, D	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1.36	2.50	< 9.34	17.17	U, D	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.26	2.50	< 6.19	12.29	U, D	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.46	2.50	< 7.18	12.29	U, D	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 1.18	2.50	< 5.80	12.29	U, D	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.835	2.50	< 4.10	12.29	U, D	"	"	"	"	X
91-20-3	Naphthalene	< 0.865	2.50	< 4.53	13.09	U, D	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.36	2.50	< 8.18	15.03	U, D	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.890	2.50	< 4.59	12.88	U, D	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.08	2.50	< 6.49	15.03	U, D	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.22	2.50	< 6.70	13.72	U, D	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.20	2.50	< 6.44	13.42	U, D	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.16	2.50	< 6.97	15.03	U, D	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.22	2.50	< 6.70	13.72	U, D	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.920	2.50	< 6.83	18.56	U, D	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1.17	2.50	< 12.48	26.66	U, D	"	"	"	"	X

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405236 - General Air Prep										
Blank (1405236-BLK1)						Prepared & Analyzed: 11-Mar-14				
Propene	< 0.213	U	ppbv	0.213						
Dichlorodifluoromethane (Freon12)	< 0.330	U	ppbv	0.330						
Chloromethane	< 0.375	U	ppbv	0.375						
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.365	U	ppbv	0.365						
Vinyl chloride	< 0.394	U	ppbv	0.394						
1,3-Butadiene	< 0.377	U	ppbv	0.377						
Bromomethane	< 0.298	U	ppbv	0.298						
Chloroethane	< 0.448	U	ppbv	0.448						
Acetone	< 0.445	U	ppbv	0.445						
Trichlorofluoromethane (Freon 11)	< 0.447	U	ppbv	0.447						
Ethanol	< 0.404	U	ppbv	0.404						
Acrylonitrile	< 0.383	U	ppbv	0.383						
1,1-Dichloroethene	< 0.373	U	ppbv	0.373						
Methylene chloride	< 0.443	U	ppbv	0.443						
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.369	U	ppbv	0.369						
Carbon disulfide	< 0.372	U	ppbv	0.372						
trans-1,2-Dichloroethene	< 0.213	U	ppbv	0.213						
1,1-Dichloroethane	< 0.200	U	ppbv	0.200						
Methyl tert-butyl ether	< 0.169	U	ppbv	0.169						
Isopropyl alcohol	< 0.228	U	ppbv	0.228						
2-Butanone (MEK)	< 0.358	U	ppbv	0.358						
cis-1,2-Dichloroethene	< 0.163	U	ppbv	0.163						
Hexane	< 0.217	U	ppbv	0.217						
Ethyl acetate	< 0.275	U	ppbv	0.275						
Chloroform	< 0.284	U	ppbv	0.284						
Tetrahydrofuran	< 0.220	U	ppbv	0.220						
1,2-Dichloroethane	< 0.254	U	ppbv	0.254						
1,1,1-Trichloroethane	< 0.196	U	ppbv	0.196						
Benzene	< 0.161	U	ppbv	0.161						
Carbon tetrachloride	< 0.208	U	ppbv	0.208						
Cyclohexane	< 0.175	U	ppbv	0.175						
1,2-Dichloropropane	< 0.196	U	ppbv	0.196						
Bromodichloromethane	< 0.211	U	ppbv	0.211						
Trichloroethene	< 0.178	U	ppbv	0.178						
1,4-Dioxane	< 0.265	U	ppbv	0.265						
n-Heptane	< 0.183	U	ppbv	0.183						
4-Methyl-2-pentanone (MIBK)	< 0.250	U	ppbv	0.250						
cis-1,3-Dichloropropene	< 0.170	U	ppbv	0.170						
trans-1,3-Dichloropropene	< 0.149	U	ppbv	0.149						
1,1,2-Trichloroethane	< 0.262	U	ppbv	0.262						
Toluene	< 0.189	U	ppbv	0.189						
2-Hexanone (MBK)	< 0.154	U	ppbv	0.154						
Dibromochloromethane	< 0.184	U	ppbv	0.184						
1,2-Dibromoethane (EDB)	< 0.305	U	ppbv	0.305						
Tetrachloroethene	< 0.201	U	ppbv	0.201						
Chlorobenzene	< 0.290	U	ppbv	0.290						
1,1,1,2-Tetrachloroethane	< 0.227	U	ppbv	0.227						
Ethylbenzene	< 0.195	U	ppbv	0.195						
m,p-Xylene	< 0.494	U	ppbv	0.494						
Bromoform	< 0.222	U	ppbv	0.222						
Styrene	< 0.247	U	ppbv	0.247						
o-Xylene	< 0.305	U	ppbv	0.305						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405236 - General Air Prep										
Blank (1405236-BLK1)						Prepared & Analyzed: 11-Mar-14				
1,1,2,2-Tetrachloroethane	< 0.273	U	ppbv	0.273						
Isopropylbenzene	< 0.253	U	ppbv	0.253						
1,3,5-Trimethylbenzene	< 0.292	U	ppbv	0.292						
4-Ethyltoluene	< 0.237	U	ppbv	0.237						
1,2,4-Trimethylbenzene	< 0.167	U	ppbv	0.167						
Naphthalene	< 0.173	U	ppbv	0.173						
1,3-Dichlorobenzene	< 0.273	U	ppbv	0.273						
Benzyl chloride	< 0.178	U	ppbv	0.178						
1,4-Dichlorobenzene	< 0.215	U	ppbv	0.215						
sec-Butylbenzene	< 0.243	U	ppbv	0.243						
4-Isopropyltoluene	< 0.239	U	ppbv	0.239						
1,2-Dichlorobenzene	< 0.232	U	ppbv	0.232						
n-Butylbenzene	< 0.244	U	ppbv	0.244						
1,2,4-Trichlorobenzene	< 0.184	U	ppbv	0.184						
Hexachlorobutadiene	< 0.234	U	ppbv	0.234						
Surrogate: 4-Bromofluorobenzene	*9.71*		ppbv		*10.0*		*97*	*70-130*		
LCS (1405236-BS1)						Prepared & Analyzed: 11-Mar-14				
Propene	**9.77**		ppbv		10.0		98	70-130		
Dichlorodifluoromethane (Freon12)	**8.54**		ppbv		10.0		85	70-130		
Chloromethane	**8.60**		ppbv		10.0		86	70-130		
1,2-Dichlorotetrafluoroethane (Freon 114)	**8.45**		ppbv		10.0		84	70-130		
Vinyl chloride	**8.47**		ppbv		10.0		85	70-130		
1,3-Butadiene	**8.49**		ppbv		10.0		85	70-130		
Bromomethane	**8.49**		ppbv		10.0		85	70-130		
Chloroethane	**8.43**		ppbv		10.0		84	70-130		
Acetone	**8.81**		ppbv		10.0		88	70-130		
Trichlorofluoromethane (Freon 11)	**8.08**		ppbv		10.0		81	70-130		
Ethanol	**9.88**		ppbv		10.0		99	70-130		
Acrylonitrile	**8.46**		ppbv		10.0		85	50-150		
1,1-Dichloroethene	**8.35**		ppbv		10.0		84	70-130		
Methylene chloride	**7.98**		ppbv		10.0		80	70-130		
1,1,2-Trichlorotrifluoroethane (Freon 113)	**8.41**		ppbv		10.0		84	70-130		
Carbon disulfide	**8.38**		ppbv		10.0		84	70-130		
trans-1,2-Dichloroethene	**8.52**		ppbv		10.0		85	70-130		
1,1-Dichloroethane	**8.40**		ppbv		10.0		84	70-130		
Methyl tert-butyl ether	**8.77**		ppbv		10.0		88	70-130		
Isopropyl alcohol	**8.94**		ppbv		10.0		89	70-130		
2-Butanone (MEK)	**8.42**		ppbv		10.0		84	70-130		
cis-1,2-Dichloroethene	**8.45**		ppbv		10.0		84	70-130		
Hexane	**8.36**		ppbv		10.0		84	70-130		
Ethyl acetate	**9.02**		ppbv		10.0		90	70-130		
Chloroform	**8.34**		ppbv		10.0		83	70-130		
Tetrahydrofuran	**9.23**		ppbv		10.0		92	70-130		
1,2-Dichloroethane	**8.81**		ppbv		10.0		88	70-130		
1,1,1-Trichloroethane	**8.27**		ppbv		10.0		83	70-130		
Benzene	**8.57**		ppbv		10.0		86	70-130		
Carbon tetrachloride	**8.57**		ppbv		10.0		86	70-130		
Cyclohexane	**9.56**		ppbv		10.0		96	70-130		
1,2-Dichloropropane	**8.33**		ppbv		10.0		83	70-130		
Bromodichloromethane	**8.32**		ppbv		10.0		83	70-130		
Trichloroethene	**8.55**		ppbv		10.0		86	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405236 - General Air Prep										
LCS (1405236-BS1)					Prepared & Analyzed: 11-Mar-14					
1,4-Dioxane	**8.98**		ppbv		10.0		90	50-150		
n-Heptane	**8.63**		ppbv		10.0		86	70-130		
4-Methyl-2-pentanone (MIBK)	**8.56**		ppbv		10.0		86	70-130		
cis-1,3-Dichloropropene	**8.79**		ppbv		10.0		88	70-130		
trans-1,3-Dichloropropene	**9.20**		ppbv		10.0		92	70-130		
1,1,2-Trichloroethane	**8.40**		ppbv		10.0		84	70-130		
Toluene	**8.67**		ppbv		10.0		87	70-130		
2-Hexanone (MBK)	**8.64**		ppbv		10.0		86	70-130		
Dibromochloromethane	**8.58**		ppbv		10.0		86	70-130		
1,2-Dibromoethane (EDB)	**8.66**		ppbv		10.0		87	70-130		
Tetrachloroethene	**8.43**		ppbv		10.0		84	70-130		
Chlorobenzene	**8.08**		ppbv		10.0		81	70-130		
1,1,1,2-Tetrachloroethane	**7.60**		ppbv		10.0		76	50-150		
Ethylbenzene	**8.73**		ppbv		10.0		87	70-130		
m,p-Xylene	**17.0**		ppbv		20.0		85	70-130		
Bromoform	**8.77**		ppbv		10.0		88	70-130		
Styrene	**9.03**		ppbv		10.0		90	70-130		
o-Xylene	**8.77**		ppbv		10.0		88	70-130		
1,1,2,2-Tetrachloroethane	**8.47**		ppbv		10.0		85	70-130		
Isopropylbenzene	**7.92**		ppbv		10.0		79	50-150		
1,3,5-Trimethylbenzene	**9.26**		ppbv		10.0		93	70-130		
4-Ethyltoluene	**9.50**		ppbv		10.0		95	70-130		
1,2,4-Trimethylbenzene	**9.20**		ppbv		10.0		92	70-130		
Naphthalene	**8.94**		ppbv		10.0		89	50-150		
1,3-Dichlorobenzene	**8.88**		ppbv		10.0		89	70-130		
Benzyl chloride	**9.60**		ppbv		10.0		96	70-130		
1,4-Dichlorobenzene	**9.31**		ppbv		10.0		93	70-130		
sec-Butylbenzene	**8.13**		ppbv		10.0		81	50-150		
4-Isopropyltoluene	**7.97**		ppbv		10.0		80	50-150		
1,2-Dichlorobenzene	**8.81**		ppbv		10.0		88	70-130		
n-Butylbenzene	**8.02**		ppbv		10.0		80	50-150		
1,2,4-Trichlorobenzene	**9.16**		ppbv		10.0		92	70-130		
Hexachlorobutadiene	**7.93**		ppbv		10.0		79	70-130		
Surrogate: 4-Bromofluorobenzene	*10.3*		ppbv		*10.0*		*103*	*70-130*		
Batch 1405433 - General Air Prep										
Blank (1405433-BLK1)					Prepared & Analyzed: 13-Mar-14					
Propene	< 0.213	U	ppbv	0.213						
Dichlorodifluoromethane (Freon12)	< 0.330	U	ppbv	0.330						
Chloromethane	< 0.375	U	ppbv	0.375						
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.365	U	ppbv	0.365						
Vinyl chloride	< 0.394	U	ppbv	0.394						
1,3-Butadiene	< 0.377	U	ppbv	0.377						
Bromomethane	< 0.298	U	ppbv	0.298						
Chloroethane	< 0.448	U	ppbv	0.448						
Acetone	< 0.445	U	ppbv	0.445						
Trichlorofluoromethane (Freon 11)	< 0.447	U	ppbv	0.447						
Ethanol	< 0.404	U	ppbv	0.404						
Acrylonitrile	< 0.383	U	ppbv	0.383						
1,1-Dichloroethene	< 0.373	U	ppbv	0.373						
Methylene chloride	< 0.443	U	ppbv	0.443						
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.369	U	ppbv	0.369						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405433 - General Air Prep										
Blank (1405433-BLK1)						Prepared & Analyzed: 13-Mar-14				
Carbon disulfide	< 0.372	U	ppbv	0.372						
trans-1,2-Dichloroethene	< 0.213	U	ppbv	0.213						
1,1-Dichloroethane	< 0.200	U	ppbv	0.200						
Methyl tert-butyl ether	< 0.169	U	ppbv	0.169						
Isopropyl alcohol	< 0.228	U	ppbv	0.228						
2-Butanone (MEK)	< 0.358	U	ppbv	0.358						
cis-1,2-Dichloroethene	< 0.163	U	ppbv	0.163						
Hexane	< 0.217	U	ppbv	0.217						
Ethyl acetate	< 0.275	U	ppbv	0.275						
Chloroform	< 0.284	U	ppbv	0.284						
Tetrahydrofuran	< 0.220	U	ppbv	0.220						
1,2-Dichloroethane	< 0.254	U	ppbv	0.254						
1,1,1-Trichloroethane	< 0.196	U	ppbv	0.196						
Benzene	< 0.161	U	ppbv	0.161						
Carbon tetrachloride	< 0.208	U	ppbv	0.208						
Cyclohexane	< 0.175	U	ppbv	0.175						
1,2-Dichloropropane	< 0.196	U	ppbv	0.196						
Bromodichloromethane	< 0.211	U	ppbv	0.211						
Trichloroethene	< 0.178	U	ppbv	0.178						
1,4-Dioxane	< 0.265	U	ppbv	0.265						
n-Heptane	< 0.183	U	ppbv	0.183						
4-Methyl-2-pentanone (MIBK)	< 0.250	U	ppbv	0.250						
cis-1,3-Dichloropropene	< 0.170	U	ppbv	0.170						
trans-1,3-Dichloropropene	< 0.149	U	ppbv	0.149						
1,1,2-Trichloroethane	< 0.262	U	ppbv	0.262						
Toluene	< 0.189	U	ppbv	0.189						
2-Hexanone (MBK)	< 0.154	U	ppbv	0.154						
Dibromochloromethane	< 0.184	U	ppbv	0.184						
1,2-Dibromoethane (EDB)	< 0.305	U	ppbv	0.305						
Tetrachloroethene	< 0.201	U	ppbv	0.201						
Chlorobenzene	< 0.290	U	ppbv	0.290						
1,1,1,2-Tetrachloroethane	< 0.227	U	ppbv	0.227						
Ethylbenzene	< 0.195	U	ppbv	0.195						
m,p-Xylene	< 0.494	U	ppbv	0.494						
Bromoform	< 0.222	U	ppbv	0.222						
Styrene	< 0.247	U	ppbv	0.247						
o-Xylene	< 0.305	U	ppbv	0.305						
1,1,2,2-Tetrachloroethane	< 0.273	U	ppbv	0.273						
Isopropylbenzene	< 0.253	U	ppbv	0.253						
1,3,5-Trimethylbenzene	< 0.292	U	ppbv	0.292						
4-Ethyltoluene	< 0.237	U	ppbv	0.237						
1,2,4-Trimethylbenzene	< 0.167	U	ppbv	0.167						
Naphthalene	< 0.173	U	ppbv	0.173						
1,3-Dichlorobenzene	< 0.273	U	ppbv	0.273						
Benzyl chloride	< 0.178	U	ppbv	0.178						
1,4-Dichlorobenzene	< 0.215	U	ppbv	0.215						
sec-Butylbenzene	< 0.243	U	ppbv	0.243						
4-Isopropyltoluene	< 0.239	U	ppbv	0.239						
1,2-Dichlorobenzene	< 0.232	U	ppbv	0.232						
n-Butylbenzene	< 0.244	U	ppbv	0.244						
1,2,4-Trichlorobenzene	< 0.184	U	ppbv	0.184						
Hexachlorobutadiene	< 0.234	U	ppbv	0.234						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405433 - General Air Prep										
Blank (1405433-BLK1)						Prepared & Analyzed: 13-Mar-14				
Surrogate: 4-Bromofluorobenzene	*10.0*		ppbv		*10.0*		*100*	*70-130*		
LCS (1405433-BS1)						Prepared & Analyzed: 13-Mar-14				
Propene	**9.28**		ppbv		10.0		93	70-130		
Dichlorodifluoromethane (Freon12)	**8.18**		ppbv		10.0		82	70-130		
Chloromethane	**7.98**		ppbv		10.0		80	70-130		
1,2-Dichlorotetrafluoroethane (Freon 114)	**8.18**		ppbv		10.0		82	70-130		
Vinyl chloride	**7.71**		ppbv		10.0		77	70-130		
1,3-Butadiene	**8.10**		ppbv		10.0		81	70-130		
Bromomethane	**8.21**		ppbv		10.0		82	70-130		
Chloroethane	**7.87**		ppbv		10.0		79	70-130		
Acetone	**8.48**		ppbv		10.0		85	70-130		
Trichlorofluoromethane (Freon 11)	**8.31**		ppbv		10.0		83	70-130		
Ethanol	**9.87**		ppbv		10.0		99	70-130		
Acrylonitrile	**7.36**		ppbv		10.0		74	50-150		
1,1-Dichloroethene	**8.14**		ppbv		10.0		81	70-130		
Methylene chloride	**7.81**		ppbv		10.0		78	70-130		
1,1,2-Trichlorotrifluoroethane (Freon 113)	**7.91**		ppbv		10.0		79	70-130		
Carbon disulfide	**7.94**		ppbv		10.0		79	70-130		
trans-1,2-Dichloroethene	**8.15**		ppbv		10.0		82	70-130		
1,1-Dichloroethane	**7.99**		ppbv		10.0		80	70-130		
Methyl tert-butyl ether	**8.42**		ppbv		10.0		84	70-130		
Isopropyl alcohol	**8.73**		ppbv		10.0		87	70-130		
2-Butanone (MEK)	**8.45**		ppbv		10.0		84	70-130		
cis-1,2-Dichloroethene	**8.04**		ppbv		10.0		80	70-130		
Hexane	**7.87**		ppbv		10.0		79	70-130		
Ethyl acetate	**8.74**		ppbv		10.0		87	70-130		
Chloroform	**7.96**		ppbv		10.0		80	70-130		
Tetrahydrofuran	**8.76**		ppbv		10.0		88	70-130		
1,2-Dichloroethane	**8.45**		ppbv		10.0		84	70-130		
1,1,1-Trichloroethane	**7.87**		ppbv		10.0		79	70-130		
Benzene	**8.22**		ppbv		10.0		82	70-130		
Carbon tetrachloride	**8.17**		ppbv		10.0		82	70-130		
Cyclohexane	**9.10**		ppbv		10.0		91	70-130		
1,2-Dichloropropane	**7.85**		ppbv		10.0		78	70-130		
Bromodichloromethane	**7.96**		ppbv		10.0		80	70-130		
Trichloroethene	**8.15**		ppbv		10.0		82	70-130		
1,4-Dioxane	**8.42**		ppbv		10.0		84	50-150		
n-Heptane	**8.28**		ppbv		10.0		83	70-130		
4-Methyl-2-pentanone (MIBK)	**8.30**		ppbv		10.0		83	70-130		
cis-1,3-Dichloropropene	**8.37**		ppbv		10.0		84	70-130		
trans-1,3-Dichloropropene	**8.76**		ppbv		10.0		88	70-130		
1,1,2-Trichloroethane	**7.95**		ppbv		10.0		80	70-130		
Toluene	**8.21**		ppbv		10.0		82	70-130		
2-Hexanone (MBK)	**8.33**		ppbv		10.0		83	70-130		
Dibromochloromethane	**8.18**		ppbv		10.0		82	70-130		
1,2-Dibromoethane (EDB)	**8.22**		ppbv		10.0		82	70-130		
Tetrachloroethene	**8.00**		ppbv		10.0		80	70-130		
Chlorobenzene	**7.72**		ppbv		10.0		77	70-130		
1,1,1,2-Tetrachloroethane	**6.79**		ppbv		10.0		68	50-150		
Ethylbenzene	**8.35**		ppbv		10.0		84	70-130		
m,p-Xylene	**16.2**		ppbv		20.0		81	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405433 - General Air Prep										
LCS (1405433-BS1)					Prepared & Analyzed: 13-Mar-14					
Bromoform	**8.43**		ppbv		10.0		84	70-130		
Styrene	**8.65**		ppbv		10.0		86	70-130		
o-Xylene	**8.18**		ppbv		10.0		82	70-130		
1,1,2,2-Tetrachloroethane	**8.11**		ppbv		10.0		81	70-130		
Isopropylbenzene	**7.08**		ppbv		10.0		71	50-150		
1,3,5-Trimethylbenzene	**8.74**		ppbv		10.0		87	70-130		
4-Ethyltoluene	**9.08**		ppbv		10.0		91	70-130		
1,2,4-Trimethylbenzene	**8.73**		ppbv		10.0		87	70-130		
Naphthalene	**7.07**		ppbv		10.0		71	50-150		
1,3-Dichlorobenzene	**8.39**		ppbv		10.0		84	70-130		
Benzyl chloride	**8.96**		ppbv		10.0		90	70-130		
1,4-Dichlorobenzene	**8.78**		ppbv		10.0		88	70-130		
sec-Butylbenzene	**7.21**		ppbv		10.0		72	50-150		
4-Isopropyltoluene	**7.02**		ppbv		10.0		70	50-150		
1,2-Dichlorobenzene	**8.28**		ppbv		10.0		83	70-130		
n-Butylbenzene	**7.05**		ppbv		10.0		70	50-150		
1,2,4-Trichlorobenzene	**7.51**		ppbv		10.0		75	70-130		
Hexachlorobutadiene	**7.00**		ppbv		10.0		70	70-130		
Surrogate: 4-Bromofluorobenzene	*10.5*		ppbv		*10.0*		*105*	*70-130*		

Certificate of Analysis

Container Type: Summa canister 3.2 liter **Date of Analysis:** 2/23/2014

Canister ID: 0206 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachlorethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

0130

Certificate of Analysis

Container Type: Summa canister 3.2 liter **Date of Analysis:** 2/3/2014

Canister ID: 0258 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachlorethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

0113

Certificate of Analysis

Container Type: Summa canister 3.2 liter **Date of Analysis:** 2/23/2014

Canister ID: 1657 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachlorethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

0125

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
TBD	Analyte is common laboratory background contaminant when dilutions are required for sample analysis; dilutions are performed in Tedlar bags
U	Analyte included in the analysis, but not detected at or above the MDL.
V11	Data confirmed with duplicate analysis.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page 1 of 1

SB85508 By

Special Handling:
☑ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Paul Adel 19 British American Blvd. Latham, NY 12110	**Invoice To:** Spectra Env.		
Tel #: 518-782-0882	**Attn:** Paul Adel	**Project No.:** 12144	
Project Manager: Paul Adel	**P.O. No.:**	**RQN:**	**Site Name:** Destiny **Location:** Syracuse **State:** NY **Sampler(s):** Mark Neves, Paul Adel

Analysis: TO-15
Matrix: Indoor /Ambient Air; Soil Gas; Collection Grab

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id	Sample Id	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	TO-15	Indoor /Ambient Air	Soil Gas	Collection Grab	Check box if canister is returned unused
			LABORATORY USE ONLY																
0130	32	-30				-01	Riser A	3-5-14		11:00					X			X	
0113	3.2	-30				-02	Duplicate	↓							X			X	
0125	32	-30				-03	Riser B	↓		11:05					X			X	

Date of Request: 3-3-14	Total # Canisters: 3	**QA/QC Reporting Level:**	
Requested by: Paul Adel	# I.L. Canisters:	☐ Standard	☐ NY ASP A* ☐ TIER II* ☐ MA DEP CAM
Company: Spectra environmental	# Flow Controllers:	☐ NO QC	☐ NY ASP B* ☐ TIER IV* ☐ CT DPH RCP
Location: Latham, NY	Flow Rate/Setting:	☐ DQA*	* additional charges may apply contact SA's QA Department for further info.
Date Needed: 3-5-14 Order #: 30419	Prepared by: TAG		

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media relinquished from Spectrum Analytical, Inc. have been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Mark Neves Date: 3-5-14

Printed: Mark Neves

Special Instructions/QC Requirements & Comments:

18.0 / 0 / 18.0 IR 01
EM 3/6

Please contact SA's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
Mark Neves		3/5/14	1550
	Mark Neves	3/5/14	16:45
		3/5/14	21:00

☐ EDD Format
☑ E-mail Results to padel@spectraenv.com

3745 Q

APPENDIX D

SYSTEM MAINTENANCE AND MONITORING RECORDS (CD)

JOB INVOICE 7947

O'CONNOR-LANE MECHANICAL, INC.
200 Terminal Road E.
Liverpool, NY 13088

(315) 478-3322 Fax (315) 478-3840

TO: CAROUSEL CENTER CO LP
9090 DESTINY USA DRIVE
SYRACUSE NY 13204

PHONE	DATE OF ORDER
	5/7/2014
ORDER TAKEN BY	CUSTOMER ORDER NUMBER
MOC	

X DAY WORK CONTRACT EXTRA

SFLS - CARO-0400-2014-076

JOB NAME / NUMBER
106.777 ~~SFTM-0400-CARO-2014-17R~~
JOB LOCATION
ROOFTOP
JOB PHONE / STARTING DATE: 4/22/14

QUANTITY	MATERIAL	UNIT PRICE	AMOUNT
3.0	3" IPS CP FXC PVC PLATE	9.35	28.05
6.0	CAULK	4.65	27.90
1.0	SYRACUSE ARMATURE PLUS 15%	366.85	366.85
		TOTAL MATERIALS ▶	422.80

OTHER CHARGES	AMOUNT	LABOR	HOURS	RATE	AMOUNT
		JOURNEYMAN	10.5	65.00	682.50
		LABORER	10.0	40.00	400.00
TOTAL OTHER ▶				**TOTAL LABOR ▶**	1,082.50

DESCRIPTION OF WORK

WAS CALLED DUE TO FAILURE IN MOTOR ON ROOFTOP. HAD MOTOR REPAIRED AND REINSTALLED. SEALED SHED OFF TO KEEP WATER FROM LEAKING IN.

NOTE: ELECTRIC MOTOR TOOK ON WATER FROM FREEZING TEMPERATURES. SHEDS NEED HEAT.

TERMS	DATE COMPLETED
NET 10	4/25/14
WORK ORDERED BY: ROB SCHOENECK	
AUTHORIZED SIGNATURE	

I hereby acknowledge the satisfactory completion of the above described work.

TOTAL MATERIALS	422.80
TOTAL OTHER	
TOTAL LABOR	1,082.50
TAX	120.42
TOTAL ▶	1,625.72

MOC

JOB INVOICE

7884

O'CONNOR-LANE MECHANICAL, INC.
200 Terminal Road E.
Liverpool, NY 13088

(315) 478-3322 Fax (315) 478-3840

PHONE	DATE OF ORDER
	3/7/2014
ORDER TAKEN BY	CUSTOMER ORDER NUMBER
MOC	

X DAY WORK CONTRACT EXTRA

TO: DESTINY USA HOLDINGS, INC
9090 DESTINY USA DR
ATTN: ACCOUNTS PAYABLE
SYRACUSE NY 13204

JOB NAME / NUMBER	
106.757 SFTM-CARO-0406-2014-15R	
JOB LOCATION	
ROOF TOP SHED - VACUUM PUMPS	
JOB PHONE	STARTING DATE
	2/24/14

QUANTITY	MATERIAL	UNIT PRICE	AMOUNT
2.0	BEARING REPLACEMENTS	30.00	60.00
>			
		TOTAL MATERIALS ▶	60.00

OTHER CHARGES	AMOUNT	LABOR	HOURS	RATE	AMOUNT
		JOURNEYMAN	10.5	65.00	682.50
		LABORER (2)	21.0	40.00	840.00
TOTAL OTHER ▶				**TOTAL LABOR ▶**	1,522.50

DESCRIPTION OF WORK

REMOVED VACUUM PUMPS ON ZONE SOUTH AND MIDDLE ZONE AND REPLACED BEARINGS ON MOTORS. REINSTALLED.

TERMS	DATE COMPLETED
NET 10 DAYS	2/27/14
WORK ORDERED BY	
ROB SCHOENECK	
AUTHORIZED SIGNATURE	

I hereby acknowledge the satisfactory completion of the above described work.

TOTAL MATERIALS	60.00
TOTAL OTHER	
TOTAL LABOR	1,522.50
TAX	126.60
TOTAL ▶	1,709.10

CONTROL PANEL ZONE : 2 (Heat Pump Room 310)

DATE	Initial Reading (Before Pump Shutdown)			Manifold Water (Y/N)	Final Reading (After Pump Restart)			Dust Drum Water (Y/N)
	Gallery C	Gallery D	Manifold		Gallery C	Gallery D	Manifold	
6/24/14	3.21	3.15	3.49	N	3.08	3.03	3.36	N
8/20/14	—	—	—	N	—	—	—	N
9/2/14	5.0	4.5	—	N	4.6	4.1	—	N
	4.0	3.7	—	N	3.8	3.4	—	N

CONTROL PANEL ZONE : 1 (Heat Pump Room 303)

Hot 5gal Since Take over

Pump Room Roof

DATE	Initial Reading (Before Pump Shutdown)			Manifold Water (Y/N)	Final Reading (After Pump Restart)			Dust Drum Water (Y/N)
	Gallery A	Gallery B	Manifold		Gallery A	Gallery B	Manifold	
8/24/14	0	0	0	½ GAL	3.40	3.34	3.64	N
	Roof switch off							
8/5/14	Changed out gages			5gal				N
8/13/14	3.7	3.8	1.5	5gal	3.5	3.7	1.3	N
8/20/14	3.7	3.8	1.5	5gal	3.5	3.6	1.3	N
8/26/14	3.7	3.8	1.5	4gal	3.5	3.6	1.3	N

CONTROL PANEL ZONE : 3 (Heat Pump Room 318)

DATE	Initial Reading (Before Pump Shutdown)			Manifold Water (Y/N)	Final Reading (After Pump Restart)			Dust Drum Water (Y/N)
	Gallery E	Gallery F	Manifold		Gallery E	Gallery F	Manifold	
6/24/14	4.3	4.4	4+/-	Y	4.0	4.1	4.05	N
8/12/14	4.6	4.5	—	N	4.3	4.2	—	N
8/20/14	4.5	4.5	—	Y	4.3	4.3	—	N
8/26/14	4.4	4.5	—	1.5gal	4.3	4.4	—	N

ASHCROFT®

Type 1134 – 4½″ Low Pressure Differential Gauge

- *Convoluted diaphragm actuator*
- *Stainless steel case*
- *Ranges from 0.6 IWD-60 IWD*
- *Static pressures up to 35 psi*
- *Glass filled nylon body(1)*
- *Buna-N seals (others available)*
- *Superior magnets for smoother power motion*
- *Low cost reed switches available*
- *5-year warranty*
- *Flush mounting accessories standard*

The Type 1134 uses a convoluted-diaphragm design with no migration of the process media. It is recommended for low differential inches of water ranges. Body material is glass filled nylon with Buna or silicone.(2)

NOTES:
(1) Not for use with incompatible media.
(2) Other wetted parts include stainless steel spring, Teflon piston and ceramic magnet.

PRODUCT SPECIFICATIONS

Model Number:	1134
Accuracy (Ascending):	±2%(3)
Migration:	Zero
Ranges:	0-0.6 IWD to 60 IWD
Maximum Static Pressure:	35 psi
Case Material:	Stainless steel
Body Material:	Glass filled nylon
Dial Size:	4½″ (45)
Maximum Process Temp.:	140°F/60°C
O-Rings/Diaphragm:	Buna-N
Connection Size (Female):	⅛ NPTF(5)
Connection Location:	Dual In-Line and Back
Window:	Glass

0"-8"

PRODUCT OPTIONS

Switches(1,2):		Available
Window Plastic:	XPD	Available
Surface Mount:	XBF	Available
Pipe Mounting Bracket:	XTM	In-line (only)
EPDM O-Rings:	XEM	Available(4)

(1) Applicable to switches:
XV1 – 1 SPST with DIN plug

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form.**

2. Complete information on the attached **Pressure Monitoring Record.**

3. Any equipment maintenance or repair? ___✓___ yes _____ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
Vacuum #1 is down, water has back up into motor.
Risers E & F are reading over 3.0 inches of H_2O on the 3rd Floor.
All Risers on 1ST Floor are reading below 2.0 inches of H_2O

6. Operation / Maintenance Action required:
Vacuum #1's motor is being removed and inspected for damage.

Water Removed From System

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Discharge stack
Vacuum #1	2.5 gal.	2 gal.	5+ gal. (Frozen)
Vacuum #2	0 oz.	2½ gal.	5+ gal. (Frozen)
Vacuum #3	7 gal.	2½ gal.	4½ gal. (Frozen

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 1-23-14

Vapor Control System Inspection Form

Name Mark Neves
Date 1-23-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	Not in operation (Water Damage)
		Gauge (Room 303)	No Readings
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	Not in operation (Water Damage)
		Gauge (Room 303)	No Readings
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
1-23-19	10:10						2.78	MM
1-23-19	11:10					1.24		M.M
		No Readings		No Readings				

Weather 0°F, Mostly Cloudy, Winds 9mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
10:13			2.74					MN
10:44					3.69			MN
10:45							3.65	MN
10:51						1.83		MN
10:56				1.50				MN
11:03		1.11						MN

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form.**

2. Complete information on the attached **Pressure Monitoring Record.**

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
Vacuum #1 is back up and running.
All Risers on 3rd Floor are reading above 3.0 except Risers C & D.
Risers C & D, E & F are reading below 2.0 inches of H_2O except Riser A is reading above 3.0 inches of H_2O on First Floor.

6. Operation / Maintenance Action required:
Vacuum # has been re-installed and running

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Discharge Stack
Vacuum #1	0oz (just Turned on)	0oz (just Turned on)	0oz (just Turned on)
Vacuum #2	0oz	1.75 gal.	5+ gal.
Vacuum #3	5+ gal.	2.0 gal.	5+ gal.

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 1-30-14

Vapor Control System Inspection Form

Name Mark Neves
Date 1-30-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	—
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
1-30-14								
	12:05						2.75	MN
	12:30		7.70					MN
	12:31				7.75			MN
	1:36					1.34		MN
	1:40			2.75				MN
	1:45	7.75						MN

Weather 20°F, Partly Cloudy, Winds 5mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
1-30-14	11:50						3.20	MM
	11:52				3.16			MM
	12:03		2.70					MM
	1:25					1.91		MM
	1:28			1.53				MM
	1:32	1.30						MM

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form.**

2. Complete information on the attached **Pressure Monitoring Record.**

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are Reading above 3.0 inches of H_2O except Risers C&D.
All Risers on 1st Floor are Reading below 2.0 inches of H_2O except Risers A&B.

6. Operation / Maintenance Action required:
Water Removed From System

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1.5 gal.	1.5 gal.	1.5 gal.
Vacuum #2	0 oz	1.25 gal.	5.5 gal.
Vacuum #3	7 gal.	1.0 gal.	2.5 gal.

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 1-14-14

Vapor Control System Inspection Form

Name Mark Neves
Date 1-14-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
1-14-19	3:15		6.64					MN
	3:16				6.60			MN
	3:27						2.74	MN
	4:45					1.27		MN
	4:48			2.46				MN
	4:55	4.57						MN

Weather 42°F, Cloudy, Winds 11mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
1-14-19	3:30		2.69					MN
	4:25				3.26			MN
	4:27						3.22	MN
	4:32					1.71		MN
	4:36			1.43				MN
	4:40	1.13						MN

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form**.

2. Complete information on the attached **Pressure Monitoring Record**.

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are Reading above 3.0 inches of H_2O Except Risers C & D.
All Risers on 1ST Floor are Reading below 2.0 inches of H_2O Except Riser A.

6. Operation / Maintenance Action required:
Water Removed From System

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1.5 gal.	1.5 gal.	0.75 gal.
Vacuum #2	0 oz	1.5 gal.	5.5 gal.
Vacuum #3	5.75 gal.	2.0 gal	2.5 gal.

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 1-6-14

Vapor Control System Inspection Form

Name Mark Nevas
Date 1-6-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H_2O
(Record pressure to nearest 1/4 inch of H_2O)

Date	Time	Riser A		Riser B		Riser C		Initials
		1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	
1-6-14	9:50						2.74	MN
	11:10		5.20					MN
	11:03				5.10			MN
	11:39					1.26		MN
	11:43			1.95				MN
	11:50	5.47						MN

Weather ____________________

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H_2O
(Record pressure to nearest 1/4 inch of H_2O)

Date	Time	Riser D		Riser E		Riser F		Initials
		1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	
1-6-14	9:52		2.68					MM
↓								
	11:16						3.36	MM
	11:18				3.32			MM
	11:23					1.73		MM
	11:27			1.40				MM
↓	11:33	1.17						MM

Weather 34°F, Cloudy, Winds 25 mph

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form**.

2. Complete information on the attached **Pressure Monitoring Record**.

3. Any equipment maintenance or repair? ✓ yes _____ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
✓ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
Vacuum #3 is not in operational at time of inspection.
Risers A & B are reading above 3.0 inches of H_2O
Risers C & D are below 2.0 inches of H_2O on 1ST Floor
Riser A is above 3.0 inches of H_2O on 1ST Floor

6. Operation / Maintenance Action required:
Water removed from System

	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1.0 gal.	1.5 gal.	3 gal. Water + ice
Vacuum #2	0 oz	2.5 gal.	25 gal.
Vacuum #3	5+ gal.	0.75 gal.	25 gal.

Called Mike O'Connor and told him about Vacuum not working.
(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 2-28-14

Vapor Control System Inspection Form

Name Mark Neves
Date 2-28-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
2-28-14	10:50		5.23					MM
	10:53				5.20			MM
	11:05						2.19	MM
	1:03					1.23		MM
	1:10			2.10				MM
	1:15	5.50						MM

Weather 14°F, Cloudy, winds 10mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
2-28-14								
~~11:08~~	11:08		2.15					MN
	12:55	1.15						MN
↓				No Reading		No Reading		MN

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form**.

2. Complete information on the attached **Pressure Monitoring Record**.

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are reading above 3.0 inches of H_2O except Risers E&F
All Risers on 1ST Floor are reading below 2.0 inches of H_2O except Riser A

6. Operation / Maintenance Action required:
Water Removed From System

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Discharge Stack
Vacuum #1	5+ gal.	2 gal.	5+ gal.
Vacuum #2	0 oz	2 gal.	5+ gal.
Vacuum #3	5+ gal.	2½ gal.	5+ gal.

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 2-14-14

Vapor Control System Inspection Form

Name Mark News
Date 2-14-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

Date	Time	Riser A		Riser B		Riser C		Initials
		1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	
2-14-14	10:20		5.50					MN
	10:23				5.25			MN
	11:07						3.03	MN
	11:37					1.38		MN
	11:42			1.98				MN
	11:45	4.50						MN

Weather: Weather: 27°F, Light Snow, Winds 13mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H_2O
(Record pressure to nearest 1/4 inch of H_2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
2-14-14	11:00				1.77			MN
	11:01						1.75	MN
	11:08		3.01					MN
	11:15					1.00		MN
	11:20			0.80				MN
	11:30	1.54						MN

We

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form**.

2. Complete information on the attached **Pressure Monitoring Record**.

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor Manifold are reading above 3.0 inches of H_2O
Risers C D & E are reading below 2.0 inches of H_2O on 1ST Floor.
Riser A on 1ST Floor is Reading over 3.0 inches of H_2O

6. Operation / Maintenance Action required:
Water Removed from System 2-19-14

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate stack
Vacuum #1	1 gal.	1.25 gal.	3.5 gal.
Vacuum #2	0 oz	1 gal.	5.0 gal.
Vacuum #3	5+ gal.	60 oz	0 oz

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 2-19-14

Vapor Control System Inspection Form

Name Mark Nevcs
Date 2-19-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

Date	Time	Riser A		Riser B		Riser C		Initials
		1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	
2-19-14	11:00		6.07					MM
	11:03				6.01			MM
	11:16						3.14	MM
	1:21					1.45		MM
	1:28			2.19				MM
	1:31	5.17						MM

Weather 41°F, Cloudy, Winds 8 mph.

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
2-19-14	11:18		3.04					MN
	12:16						4.10	MN
	12:18				4.06			MN
	1:06					2.11		MN
	1:10			1.61				MN
↓	1:16	1.45						MN

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form.**

2. Complete information on the attached **Pressure Monitoring Record.**

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are reading above 3.0 inches of H_2O except Risers C & D. ✓
Riser A is above 3.0 inches of H_2O on First Floor and Risers C, D & E are Below 2 inches of H_2O.

6. Operation / Maintenance Action required:
Vacuum 3 is back up and Running this week.
Water Removed from System

	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1.0	1.25 gal.	3.75 gal.
Vacuum #2	0 oz	1.75 gal.	5 gal.
Vacuum #3	2.5 gal.	1.25 gal	10 oz

(Attach maintenance report)

Name: Mark Neves

Position/Title: Inspector

Signature: Mark Neves

Date: 3-5-13

Vapor Control System Inspection Form

Name Mark Neves
Date 3-5-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	O –
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	O –
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
3-5-H	11:45		6		6.32			MN
	11:50		6.32					MN
	1:09						2.57	MN
	2:35					1.30		MN
	2:41	5.75		~~5.75~~				MN
↓	2:45			2.30				MN

4.88
7.76
6.6
1264

Weather 22°F, Light Snow, Winds 4 mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
3-5-14	1:07		2.50					MA
	2:10				3.52			MA
	2:10					3	3.48	MA
	2:20					2.70		MA
	2:23			1.47				MA
	2:29	1.36						MA

Weather _____

SPECTRA
ENVIRONMENTAL GROUP, INC.
ENGINEERING, ARCHITECTURE AND SURVEYING, PC
SUBSURFACE IMAGING GROUP, LLC

CALCULATION SHEET

PAGE 1 OF 1

PROJECT NO. _____

CLIENT Destiny SUBJECT Gauge Readings Prepared by MEN Date 3-19-14

PROJECT _____ Reviewed by _____ Date _____

Approved by _____ Date _____

Gauge Readings 1ST Floor

Riser A	2.75
Riser B	1.42
Riser C	1.22
Riser D	1.24
Riser E	1.24
Riser F	1.63

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form**.

2. Complete information on the attached **Pressure Monitoring Record**.

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are reading above 3.0 inches of H_2O
All Risers on 1ST Floor are reading below 2.0 inches of H_2O except Riser A.

6. Operation / Maintenance Action required:
Water Removed From system

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1 gal.	1 gal.	2 gal.
Vacuum #2	0 oz.	1 gal.	2 gal.
Vacuum #3	5+ gal.	1 gal.	1/2 gal

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 4-1-14

Vapor Control System Inspection Form

Name Mark Neves
Date 4-1-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	-
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
4-1-14	2:00 PM		3.71					MA
	2:05 PM				3.70			MA
	3:40 PM						3.16	MA
	4:15 PM					1.43		MA
	4:18 PM			1.35				MA
	4:22 PM	2.53						MA

Weather 39°F, Overcast, winds 5 mph

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
4-1-14	3:42PM		3.13					MA
	3:48 PM				3.32			MA
	3:50 PM						3.29	MA
	4:03PM					1.70		MA
	4:07PM			1.38				MA
↓	4:10PM	1.52						MA

Weather _____

VAPOR CONTROL SYSTEM INSPECTION REPORT

1. Record condition and function of each component on attached **Inspection Form.**

2. Complete information on the attached **Pressure Monitoring Record.**

3. Any equipment maintenance or repair? _____ yes ___✓___ no

4. Any gauge readings outside of normal operating range (2 to 3 inches of H2O)?
___✓___ yes _____ no

5. If either 3 or 4 are answered "yes", state where:
All Risers on 3rd Floor are reading above 3.0 inches of H_2O.
All Risers on 1ST Floor are reading below 2.0 inches of H_2O except Riser D.

6. Operation / Maintenance Action required:
Water Removed From System 5-6-14

Vacuum #	3rd Floor Manifold	Vacuum Canister	Condensate Stack
Vacuum #1	1 gal.	40 oz	5 oz
Vacuum #2	0 oz	5 oz	5 oz
Vacuum #3	3 gal	3/4 gal	0 oz

(Attach maintenance report)

Name: Mark Neves
Position/Title: Inspector
Signature: Mark Neves
Date: 5-6-14

Vapor Control System Inspection Form

Name Mark Neves
Date 5-6-14

Riser	Column	Component	Condition
Gallery A	F6	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery B	H5	Vacuum (Roof)	OK
		Gauge (Room 303)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (303)	OK
Gallery C	P5	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery D	F'8'	Vacuum (Roof)	OK
		Gauge (Room 310)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (310)	OK
Gallery E	K'6'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK
Gallery F	P'5'	Vacuum (Roof)	OK
		Gauge (Room 318)	OK
		Piping (All Floors)	–
		Roof Vent (Roof)	OK
		Sample Valve Room (318)	OK

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser A		Riser B		Riser C		
Date	Time	1st Floor	3rd Floor	1st Floor	3rd Floor	1st Floor	3rd Floor	Initials
5-6-14	3:05		3.38					MH
	3:06				3.33			MH
	3:30						3.70	MH
	4:35					1.63		MH
	4:41			1.25				MH
	4:45	1.58						MH

Weather 58°F, Sunny, 5-10 mph winds

Vapor Control System Pressure Monitoring Record

Gauge Readings in Inches of H2O
(Record pressure to nearest 1/4 inch of H2O)

		Riser D		Riser E		Riser F		
Date	**Time**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**1st Floor**	**3rd Floor**	**Initials**
5-6-14	3:30		3.67					MM
	4:03				3.61			MM
	4:05						3.60	MM
	4:20					1.90		MM
	4:25			1.51				MM
↓	4:31	2.33						MM

Weather _____