General Motors LLC

General Motors LLC
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June 13, 2011

Glenn May
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, NY 14203-2999
gmmay@gw.dec.state.ny.us

Re: GM Components Holdings LLC, Building 10 Lockport NY
Brownfield Site Cleanup Agreement – Index # C932140-03-10
Bldg 10 2010 SVE/SSD Operation and Monitoring Report

Dear Mr. May,

The Brownfield Site Cleanup Agreement for the Building 10 site located at our facility in Lockport NY was signed on May 20, 2010. GMCH provided an initial annual report on the Bldg 10 SVE/SSD System performance on May 28, 2010 and requested that NYSDEC acknowledge ongoing operation of the SVE system as an IRM under the new Brownfield Cleanup Agreement. NYSDEC approved the activity and the OMM Plan in a letter dated September 20, 2010.

In accordance with the approved OMM Plan, enclosed is the second annual SVE/SSD Operation and Monitoring Report which provides information on system operation and performance as well as recommendations for system modifications to enhance future performance. We look forward to the Department's review and approval of the proposed modifications included in the report.

Should you have any questions regarding this letter or the attached documents please contact me or Chris Boron our consultant project manager at 716-685-2300.

Sincerely,

James F. Hartnett

Enclosures: Bldg 10 2010 SVE/SSD Operation and Monitoring Report

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GM COMPONENTS HOLDINGDS, LLC
200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK
BUILDING 10
2010 SVE/SSD OPERATION & MONITORING REPORT

PREPARED FOR:
New York State Department of Environmental Conservation

PREPARED BY:
GZA GeoEnvironmental of New York
Buffalo, New York

June 2011
File No. 21.0056546.00

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TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION AND BACKGROUND

On behalf of GM Components Holdings, LLC (GMCH), GZA GeoEnvironmental of New York (GZA) has prepared this Annual Soil Vapor Extraction (SVE) and Sub-slab Depressurization (SSD) System Monitoring Report for the extraction and treatment of soil vapor beneath a portion of Building 10 (Figure 1). Building 10 is part of the GMCH Lockport Facility located at 200 Upper Mountain Road, Lockport, New York. Building 10 (Site ID #C932140) was accepted into the Brownfield Cleanup Program in May 2010, when NYSDEC issued and executed a Brownfield Cleanup Agreement with GMCH.

The SVE/SSD System was installed by Delphi Thermal in the northern portion of Building 10 to address concerns related to soil impacts and consequent vapor intrusion concerns associated with subsurface contamination, primarily tetrachloroethene (PCE) identified in the Building 10 Focused Environmental Assessment[1] (Bldg 10 FEA) which Delphi submitted to the New York State Department of Environmental Conservation (NYSDEC) in August 2007.

The SVE/SSD System was designed and installed based on the SVE Pilot Test Summary and SVE System Design Report[2] (SVE Design Report), which was also submitted by Delphi to NYSDEC in November 2007.

Delphi initiated operation of the SVE/SSD system in March 2009 and submitted a SVE/SSD System Installation Document[3] in July 2009. GMCH submitted an Operation, Maintenance & Monitoring (OM&M) Plan[4] to NYSDEC in March 2010 which was approved by NYSDEC in a September 20, 2010 letter to Mr. James Hartnett (GMCH). The OM&M Plan identifies that a SVE/SSD System operation report will be prepared annually and submitted in May of each calendar year. This report is intended to satisfy the reporting requirements.

This SVE/SSD System Operation Report, which will be referred to as the "2010 Operation & Monitoring Report," covers the monitoring period from May 2010 through April 2011 and provides monitoring data, SVE operational information, conclusions regarding overall system effectiveness, and recommendations for modifications to the SVE/SSD system, as appropriate.

1.1 NATURE AND EXTENT OF SUBSURFACE CONTAMINATION

The subsurface investigation work completed as part of the Bldg 10 FEA and SVE Design Report identified an approximately 14,000 square foot area with detected PCE

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[1] "Focused Environmental Assessment, Building 10, Lockport, New York" dated August 27, 2007.
[2] "Soil Vapor Extraction (SVE) Pilot Test Summary and SVE System Design Report, Delphi Automotive, Northern Portion of Building 10, Lockport Complex, 200 upper Mountain Road, Lockport, New York" dated November 2007.
[3] "SVE/SSD System, Installation Document, Delphi Automotive, Lockport, New York" dated July 2009.
[4] "Operation, Maintenance & Monitoring Plan, SVE/SSD System, GM Components Holdings, LLC, Lockport, New York" dated March 2010.

concentrations in soil above 300 ppm (the Part 375 Industrial Soil Cleanup Objective (ISCO)) as shown on Figure 2. Based on the impacted area having an average PCE concentration in the soil (360 ppm), and the depth of the unsaturated zone (about 6.5 feet below floor grade), it has been estimated that approximately 3,600 pounds of PCE was present prior to system start up in this unsaturated zone to be treated (see Appendix A for calculations). This mass of PCE will be used when evaluating the effectiveness of the SVE/SSD System as discussed in Section 4.0.

2.0 SOIL VAPOR EXTRACTION SYSTEM

This section provides a general description of the SVE system and adjustments made during the reporting period.

2.1 SVE/SSD SYSTEM OVERVIEW

There are two subsurface components to the SVE/SSD system operating in Building 10: a vertical well SVE system and a horizontal perforated pipe SSD system (see Figure 2).

- The vertical well SVE system consists of seventeen (17) 4 inch diameter vertical extraction wells (see Figure 2). The 17 extraction wells were installed using rotary drilling methods and are constructed of 4-inch diameter flush coupled polyvinyl chloride (PVC) riser and screen. Depth of the wells ranges from about 5.5 to 7 feet below ground surface (bgs) with the screened portion of the wells ranging from about 3.5 to 5 feet in length and consisting of #10 (0.010-inch wide) machine slotted PVC pipe. The annulus space around the well screen was backfilled with a #00 sand pack and an approximate 2-foot thick layer of bentonite was placed above the sand filter. Three trenches were excavated to an approximate depth of 2 feet bgs through the concrete slab-on-grade, subbase and soil for installation of the piping that connects the extraction wells to the manifold located within the SVE shed. The trenches were backfilled with pea stone to approximately 6 to 8 inches below the concrete slab.

- The horizontal SSD piping was installed in the upper portion of the pea stone in the SVE manifold trenches. The subsurface SSD system piping consists of 2-inch diameter #10 machine slotted PVC well screen lengths, connected with PVC couplers, and covered with a fabric sleeve. The three lengths, called sub-slab (SS) legs 1, 2 and 3 are connected to the manifold inside the SVE shed via 1.5-inch diameter HDPE piping as shown on Figure 3.

The trenches were topped with approximately 6 inches of compacted crushed stone and covered with concrete to meet the existing slab-on-grade. Cracks and seams in the existing concrete floor were filled using a self-leveling polyurethane caulk.

Additional SVE/SSD system construction details are provided in the Installation Document referenced above. The system is designed to operate continuously at a consistent vacuum pressure and flow rate to remove soil vapor from the impacted area.

The SVE/SSD System's main aboveground components consist of a moisture separator, air filter, positive displacement blower, heat exchanger and two vapor-phase granular activated carbon (GAC) vessels each containing approximately 1,800 pounds of granular activated carbon. The entire system is skid mounted, with vacuum, temperature, pressure and flow instrumentation, and is operated through a control panel. Figure 3 shows the process and instrumentation diagram for the SVE/SSD System.

2.2 SVE SYSTEM ADJUSTMENTS

The SVE/SSD system was shut down from August 26, 2010 to December 16, 2010 - a period of about 3½ months. NYSDEC and New York State Department of Health (NYSDOH) gave approval to temporarily shut down the system at a meeting at the GMCH Lockport Facility on August 26, 2010. No other significant SVE system adjustments were made during the reporting period.

3.0 OPERATION AND MONITORING

This section discusses the operation and monitoring activities performed for the SVE/SSD system during the current reporting period. The system startup began under Delphi on March 2, 2009. The system has generally been running continuously since March 3, 2009. Table 1 is a breakdown of the monitoring activities completed.

A GZA operator monitored the SVE/SSD system generally on a monthly basis from May 2010 to August 2010 and then again from December 2010 through April 2011. We note that no monthly monitoring was completed in January 2011.

Monitoring included the collection of: 1) extracted vapor samples from the treatment system influent (Pre-Carbon), midpoint (Mid-Carbon) and effluent (Post-Carbon) to assess system performance and 2) system readings to measure the approximate system flow rates. See Table 1 for the SVE/SSD System Monitoring Summary.

Routine Monitoring Forms were developed and used to document operation and monitoring events for the SVE/SSD system from May 2010 through April 2011 (see Appendix B).

The operator also monitored water accumulation in the moisture separator during the reporting period. No water accumulation occurred during this reporting period.

During the system monitoring, three types of extracted vapor monitoring samples have been collected to assess the system performance, operating conditions and contaminant removal rate. They are as follows.

1. Tedlar® bag samples for field screening (Field Screening Sample);
2. Colorimetric Detector tubes for PCE (Detector Tube); and
3. Tedlar® bag samples for Gas Chromatograph analysis (GC Sample).

Field Screening Samples have generally been collected (by GZA) during each monitoring event (see Table 1) and were analyzed for total volatile organics using a photoionization detector (PID) equipped with a 10.6 eV lamp[5]. The PID was calibrated using 100 parts per million by volume (ppmv) of isobutylene. Based on information provided by Rae Systems (the manufacturer of the PID used to perform the field screening), isobutylene has a response factor of 1.0, while PCE has a response factor of 0.57[6]. Since PCE is the primary compound of concern, the readings were adjusted to reflect the PCE response factor.

GC Samples were collected during the monitoring events by GZA using Tedlar® bags for screening with a gas chromatograph by Haley & Aldrich at their office in Rochester, New York. The total VOC and PCE concentrations detected for these monitoring events are included on Table 1 and included with monthly monitoring forms in Appendix B.

Detector Tube readings were collected directly from the air stream of the three sampling locations after opening the valve at the respective locations during each monitoring event from May 2010 through February 2011. The Detector Tube results are also used to make field decisions regarding GAC breakthrough on the first GAC vessel. The OM&M Plan indicates that if detector tube readings for PCE at the Mid-Carbon monitoring location are greater than 2 ppm, then a carbon change-out is required. As the field screening results in December, February, March and April were zero or non-detect (also confirmed by the GC Samples) no detector tube readings were collected.

GZA has evaluated these results to assess the mass of PCE extracted by the SVE/SSD system as well as to assess the efficiency of the GAC treatment system.

Generally, the correlation between the three data sets collected (i.e., the Field Screening Samples, Detector Tubes and GC Samples) in this reporting period are within a reasonable range of consistency, which the exception of the Detector Tubes results from December 2010 which are considerably lower than both the corrected field screen and GC Sample results.

The following rationale was used to estimate the mass removal rates in the 2009 Operation & Monitoring Report.

> *The five monitoring events for which speciation data are available (i.e., when either Summa[7] or GC Pre-Carbon Samples were collected - 3/13/09, 4/9/09, 2/8/10, 3/16/10 and 4/23/10) were evaluated to estimate what percentage the total VOC concentrations detected was due to PCE. From these five events, PCE was determined to be 55%, 84%, 80%, 82% and 78%, respectively, of the total*

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[5] PID readings were obtained by collecting soil vapor samples in Tedlar® bags. Prior to sampling, the bags were purged with the same soil vapor as was being sampled for analysis using a dedicated Tedlar bag for the respective sampling location.

[6] Rae Systems Inc., Technical Note TN-106 "Correction Factors, Ionization Energies and Calibration Characteristics" Revised December 2007.

[7] Note though we estimate the Pre-Carbon Summa data may be biased low, our evaluation of the data indicates the relative concentrations of the detected compounds in these samples is representative.

concentration with an average of 75%. Therefore, the Pre-Carbon Adjusted Field Screening Results were adjusted to 75% to reflect the estimated concentration of PCE.

For this 2010 Operation & Monitoring Report, eight monitoring events were conducted between May 2010 and April 2011 for which speciation data are available (GC Pre-Carbon Samples). From these eight monitoring events PCE was determined to be an average of 75% of the total concentration. Therefore, consistent with 2009 Operation & Monitoring Report, the Pre-Carbon Adjusted Field Screening Results were adjusted to 75% to reflect the estimated concentration of PCE.

The calculated PCE concentrations (average between the monitoring event) were used along with the system average flow rates (average between the monitoring events) and the system operation time to estimate the PCE mass removal between monitoring events (2nd last column of Table 1), the PCE mass removal per day (last column of Table 1) and the total PCE mass removal since the startup (lower right hand corner of Table 1).

We estimate that approximately 344 pounds of PCE have been removed in this reporting period and a total of 1,660 pounds of PCE have been removed since March 3, 2009 (see Figure 4). This is approximately 46% of the total mass of PCE (3,600 pounds) estimated to have been initially present in the subsurface, as discussed in Section 1.0.

4.0 SYSTEM EVALUATION AND CONCLUSIONS

An evaluation of, and conclusions regarding, SVE system operation during the reporting period are presented below.

4.1 SYSTEM EVALUATION

Operation and monitoring data collected, as shown on Table 1, indicates that the system has operated as designed. The SVE system generally operated at steady state condition with an approximate 4" Hg vacuum pressure which yielded a SVE/SSD system average air flow rate of approximately 315 SCFM.

Field Screening Sample results from the PID were used along with the operating hours and SVE flow rate to assess the PCE mass removal for this monitoring period. We estimate, as shown on Table 1, that approximately 1,660 pounds of PCE has been removed from the subsurface since the start of the system and 322 pounds during the 2010 reporting period. The estimated PCE removal rates after the system was started back up, after being shut down from August 26th through December 16, 2010, indicated a slight increase in removal rates; however, the estimated rates for March and April 2011 are similar to those in March and April 2010 and estimated at less than 1 pound per day.

One GAC vessel, containing approximately 1,800 pounds of GAC, has been sent to Siemens Water Technology Corporation (Siemens) in Rochester, Pennsylvania for

reactivation. The efficiency removal rate of GAC for PCE removal from a dry air stream can be about 10 to 15% by weight. Therefore, the GAC vessels used can each adsorb about 180 to 270 pounds of PCE, before reaching saturation and break-through begins to occur.

4.2 CONCLUSIONS

The SVE/SSD system generally operated on a continuous basis during the reporting period with the exception of the NYSDEC/NYSDOH approved shut down from August 26th through December 16, 2010. The system is effectively extracting soil vapor from the remedial area consistent with the design parameters established in the 2007 SVE Design Report. Approximately 1,660 pounds of PCE (the primary contaminant of concern), have been extracted from the subsurface from system start up through April 26, 2011. It has been estimated that approximately 3,600 pounds of PCE were initially present in the subsurface soil in the remedial zone at system start up. Therefore, about 46% of the estimated initial PCE mass has been removed.

The mass removal rate since the startup has decreased to less than 1 pound per day. The cumulative mass of PCE removed versus time, depicted on Figure 4, indicate that asymptotic removal rates have been achieved under current operating conditions. Figure 4 also depicts the cumulative mass of PCE removed in pounds for this current reporting period.

As a result, GZA is recommending changing the current operating conditions of the system by shutting down the extraction wells which do not produce significant air flow and mass removal relative to the other extraction wells. This will be determined by collecting air flow and total organic compound measurements. This will allow the system to direct the available extraction system capacity on the wells that are providing the higher flow and PCE removal. If an increase in the mass removal is not observed in the first 2 months after the change is implemented, GZA will reevaluate the system's operating parameters. The actual effectiveness will be based on Field Screening Sample and GC Sample results. If an increase in PCE mass removal is not observed after operating parameter adjustments are made to the system, GMCH will contact NYSDEC to discuss the feasibility of system operation and other potential options.

From December 2010 through April 2011, GMCH completed the BCP Remedial Investigation of Building 10. Four indoor air samples were collected to assess the vapor intrusion concern within the building, six soil probes were completed within the footprint of the SVE/SSD system, and groundwater monitoring well Bldg 10-MW-1 was resampled.

Two indoor air samples were collected while the SVE/SSD system was in operation at locations similar to those completed as part of the Bldg 10 FEA, which initially identified the concern (see Figure 5). The indoor air results were non-detect for both PCE and trichloroethylene (TCE). Two indoor air samples were also collected from similar locations, after the SVE/SSDS was shut down for a 24-hour period prior to the air sampling. The indoor air results were non-detect for PCE and TCE was detected (4.6 microgram per cubic meter) below the NYSDOH air guideline for TCE.

The six soil probes were completed within the footprint of the SVE/SSD system to assess subsurface soil conditions (see Figure 5). The results of three of the six samples collected for laboratory analysis (10-SB-12, 10-SB-14 and 10-SB-15) contained PCE concentrations above the Part 375 Industrial Soil Cleanup Objective of 300 ppm.

The unvalidated results of the groundwater sample collected from Bldg 10-MW-1 as part of the PCB work were compared to the groundwater sample collected as part of the FEA work, which were completed by different laboratories. The results indicated that PCE concentrations detected were of similar order of magnitude: 114 ppm (FEA result) and 120 ppm (BCP work). These results will be provided to NYSDEC once the validation has been completed and further discussed in the Building 10 BCP Remedial Investigation Report.

The next SVE/SSD Annual Monitoring Report is scheduled to be submitted in May 2012.

5.0 PROPOSED 2011 ACTIVITIES

The operation of the SVE/SSD system will be altered, as discussed in Section 4.2, to attempt to improve removal efficiency. GZA will continue to perform monthly monitoring of the system and carbon vessel change outs will be scheduled as necessary. GZA will collect additional monitoring data when the system operation is altered to assess the effect of the changes.

6.0 CERTIFICATION

I certify that the following statements are true related to the SVE/SSD system installed in the northern portion of Building 10:

- The operation and monitoring of the SVE/SSD system, to confirm the effectiveness of the SVE/SSD System, was performed under my direction;
- The operation of the SVE/SSD system has generally been consistent from the date it was put in place;
- No significant event, as monitored by GZA, has occurred that would impair the ability of the SVE/SSD System to protect the public health and environment;
- Access to the SVE/SSD system will continue to be provided to the Department (with valid Safety Protocol Program Card) to evaluate the SVE/SSD System remedy, including access to evaluate the continued maintenance of this system;
- The SVE/SSD system is performing as designed and is effective;
- To the best of my knowledge and belief, the work and conclusions described in this report are in accordance with generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify[8] 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, Bart A. Klettke, P.E., of GZA GeoEnvironmental of New York, am certifying as a GMCH Representative.

BART A. KLETTKE

Printed Name

Bart A. Klettke

Signature

6-13-11

Date

[8] Certify means to state or declare a professional opinion.

TABLES

TABLE 1
SVE/SSD MONITORING SUMMARY
2010 ANNUAL SVE/SSD SYSTEM MONITORING REPORT
BUILDING 10 SVE/SSD SYTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

DATE	RUN TIME	# OF DAYS BETWEEN READINGS	SYSTEM FLOW RATE	OPERATING VACUUM	PRECARBON MONITORING POINT			MID-CARBON MONITORING POINT			POST-CARBON MONITORING POINT			Estimated PCE Concentrations from Field Screening Results	Pound of PCE Removed Since Previous Measurement	PCE Removed in pounds per days
	hours	DAYS	SCFM	in Hg	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	See Note 1 ppm	See Note 9 pounds	pounds
2009 Report Data																
3/2/2009	4		125	12.5	143									107		
3/3/2009	30	1.1	150	11	855			0.4			0.4			641	**34**	31.4
3/6/2009	98	2.8	280	4.5	257			0.9			0.5			192	**155**	54.6
3/9/2009	168	2.9	300	5	54			0.3			0.3			41	**60**	20.6
3/13/2009	252	3.5	325	4	48	15	2.9 / 1.6 [2]	0.9		1.3 / 0.003 [1]	0.5		1.6 / 0.003 [1]	36	**58**	16.6
3/20/2009	432	7.5	325	3.5	39			1.1			0.6			29	**49**	6.5
3/27/2009	529	4.0	270	8.5	114			1.3			0.3			86	**42**	10.4
4/9/2009	766	9.9	320	2.75	29	19	3.8 / 3.2 [3]	0.6	ND	0.17 / 0.004 [2]	1.1		0.12 / 0.001 [2]	21	**100**	10.1
4/17/2009	958	8.0	315	3	47			0.7			0.5			35	**44**	5.5
4/27/2009	1,203	10.2	330	4.5	23			0.5			0.5			17	**52**	5.1
5/8/2009	1440	9.9	315	5	26			0.6			0.2			20	**36**	3.6
5/14/2009						25		0.0	0.6							
5/29/2009	1,945	21.0	280	3	30			7.4	5.5 [3]		0.4			22	**80**	3.8
6/12/2009	2,280	14.0	350	3	22	25 [4]		0.3			0.2			16	**52**	3.7
6/25/2009	2,594	13.1	330	3	23			0.9			0.5			18	**46**	3.5
7/10/2009	2,953	15.0	340	3.25	33			1.7			0.3			25	**65**	4.3
8/3/2009	3,528	24.0	310	3	19			10.8	15		1.1	0.5		15	**93**	3.9
2/8/2010	8,064	189.0	285	2.5	5	6	11.6 / 7.1	2.9	5	6 / 5.9	0.9	1.25	1.5 1.3	4	**315**	1.7
3/16/2010	8,928	36.0	335	4	6	7	9.8 / 8.0	2.9	7.5	6.7 / 5.6	0.3	ND	0.9 / ND	4	**28**	0.8
4/23/2010	9,840	38.0	310	3	5	7	9.2 / 7.2	2.4	5	6.0 / 5.4	0.3	ND	ND / ND	3	**30**	0.8
2010 Reporting Data																
5/14/2010	10,342	20.9	340	4	10	10	21.7 / 8.7	6.4	8	8.8 / 8.3	0.0	0	1.2 / 0	7	**22**	1.1
6/24/2010	11,330	41.2	320	4	10	20	14.4 / 13.9	0.1	0	1.2 / 0	0.0	0	1.2 / 0	7	**60**	1.5
7/19/2010	11,926	24.8	315	3.5	12	20	19.8 / 16.5	0.0	0	2 / 0.09	0.0	0	No Sample	9	**38**	1.5
8/26/2010	12,835	37.9	300	4	10	15	29.3 / 22.4	5.7	9	20.9 / 11.9	0.0	0	0.2 / 0	8	**59**	1.6
12/16/2010	12,835	112.0	315	4	37	13	25.5 / 23.6	0.0	0	0 / 0	0.0	0	0 / 0	28	**0 (See Note 10)**	0.0
12/20/2010	12,937	4.3	315	4	14	NM	NM	0.0	NM	NM	0.0	NM	NM	11	**16**	3.7
2/7/2011	14,046	50.5	315	4	6	9	9.7 / 5	0.0	0	0.7 / 0	0.0	NM	0 / 0	4	**72**	1.4
3/17/2011	14959	38.0	310	4	5	NM	2.9 / 2.1	0	MN	6.1 / 0	0.2	NM	0.8 / 0.2	4	**29**	0.8
4/26/2011	15914	39.8	315	4	4	NM	3.8 / 3.4	0	NM	0.5 / 0	0.0	NM	0.5 / 0	3	**26**	0.6

Notes: 1 - Estimated PCE concentrations were determined assuming 75% of total VOCs was related to PCE concentrations and usinga 0.57 correction factor on the PID reading
2 - Laboratory analysis performed by Con-Test Lasboratory
3 - Laboratory analysis performed by Centek Laboratory
4 - Detector tube measurement collected on 5/28/2009.
5 - Detector tube measurement collected on 6/15/2009.
6 - in Hg = inches of mercury
7 - ND = non detect
8 - ppmv = parts per million by volume
9 - See Appendix B for sample calculation.
10 - SVE/SSDS was shut down from August 26 through December 16, 2010, approximately 4 months, per NYSDEC approval.
11. NM = not measured
12 . Valve on tedlar bag broke in transit and bad arrived empty, no sample was screened.

Pounds of PCE Removed since 4/23/2010 **322**
Total pounds of PCE removed since start up **1660**

FIGURES

NORTH

LEGEND:

INDICATES BUILDING 10 FOOTPRINT

APPROXIMATE LOCATION OF SVE/SSD SYSTEM

NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: JUNE 2011

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

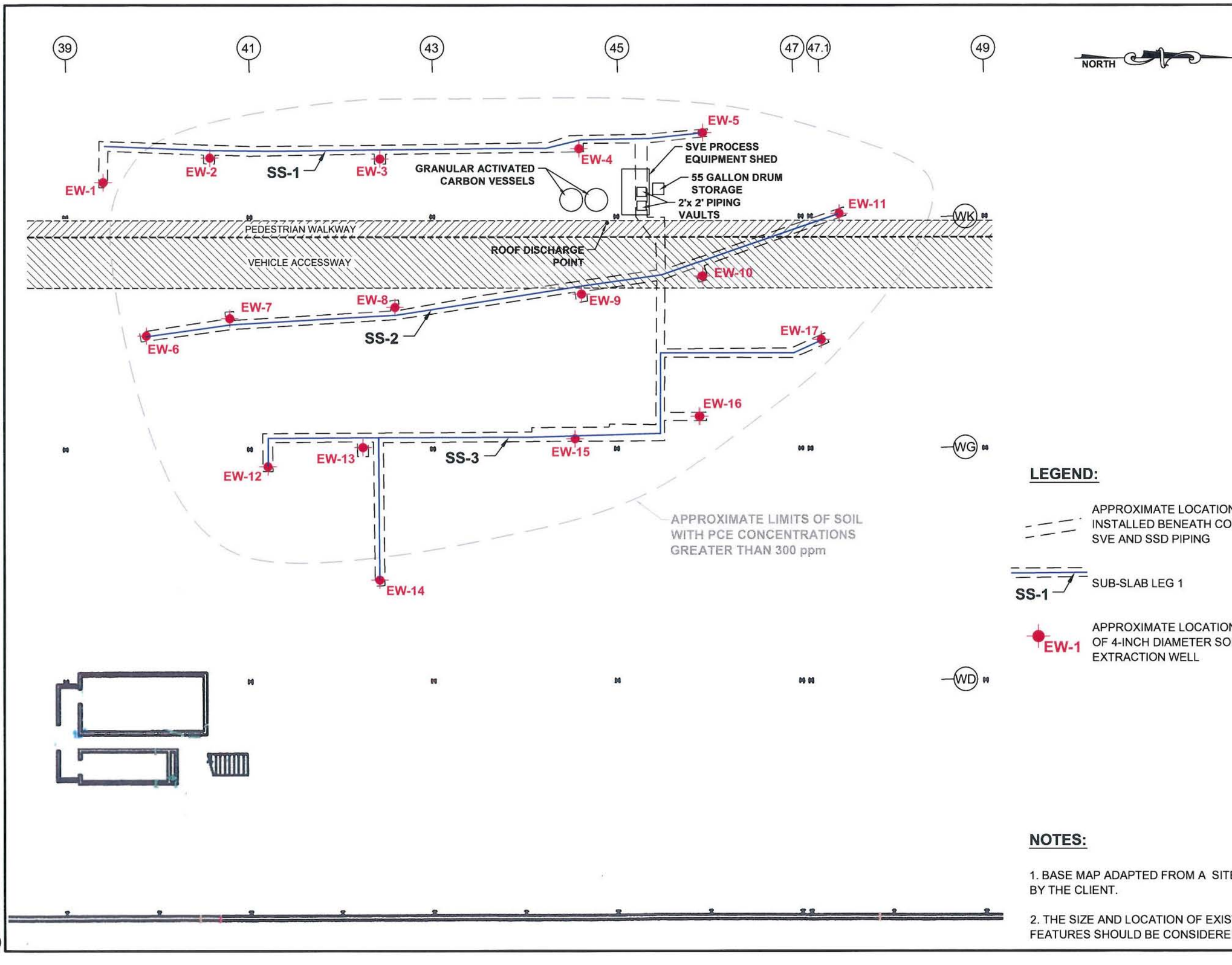
0 200 400 800

GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10
SVE / SSD SYSTEM 2010 MONITORING REPORT
SITE PLAN

PROJECT No.
21.0056546.00

FIGURE No.
1

GZA-T:\PROJECTS\56500s\56546 GM Component LLC\Bldg 10 SVE-SSD Monitoring Report\2010-2011\Figure 1.dwg [FIGURE 1] June 06, 2011 - 9:22am daniel.wulf



LEGEND:

APPROXIMATE LOCATION OF TRENCHES INSTALLED BENEATH CONCRETE SLAB FOR SVE AND SSD PIPING

SS-1 SUB-SLAB LEG 1

EW-1 APPROXIMATE LOCATION AND DESIGNATION OF 4-INCH DIAMETER SOIL VAPOR EXTRACTION WELL

NOTES:

1. BASE MAP ADAPTED FROM A SITE PLAN PROVIDED BY THE CLIENT.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: JUNE 2011

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET
0 10 20 40

GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10

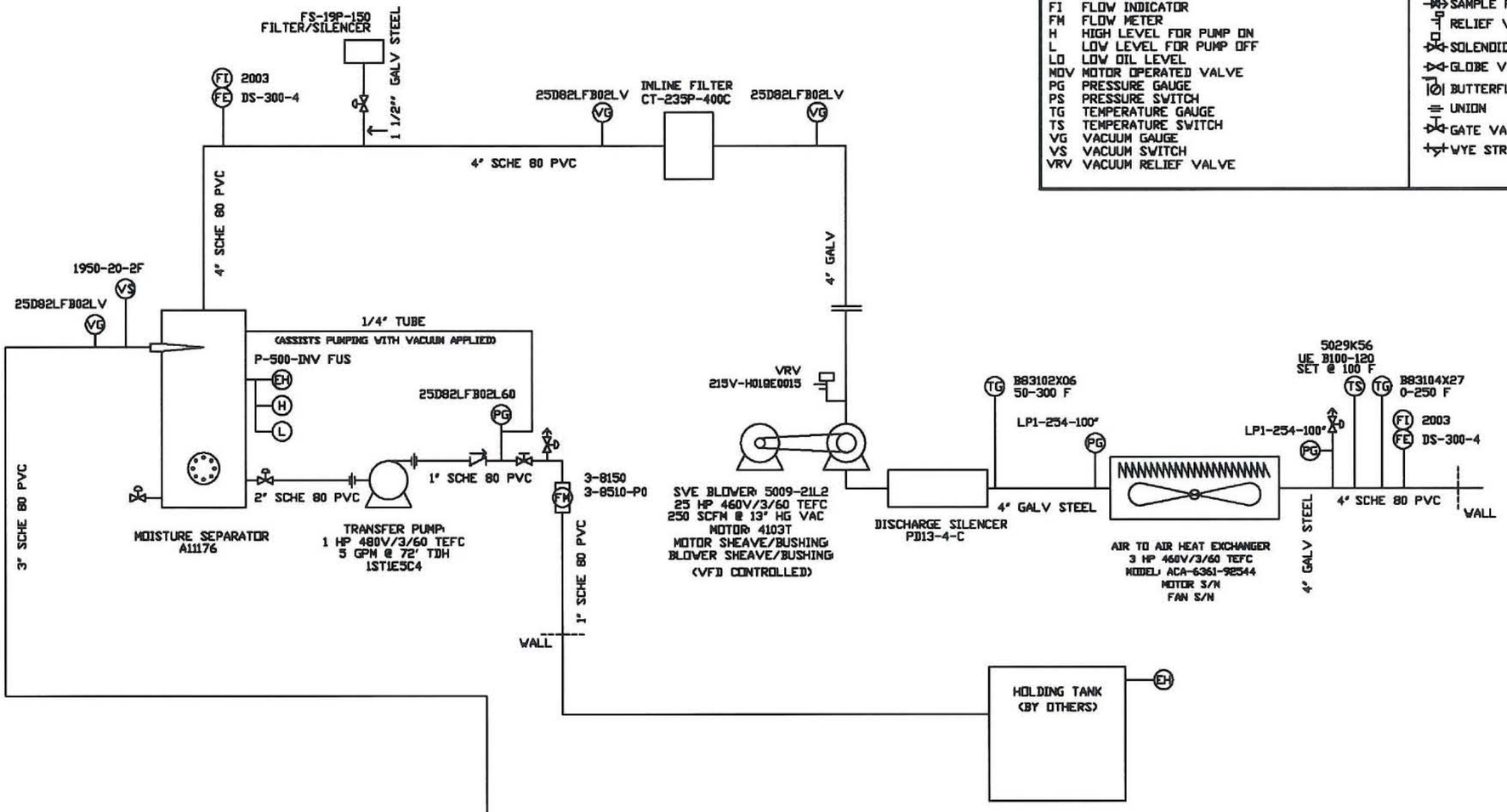
SVE / SSD SYSTEM 2011 MONITORING REPORT
SVE / SSD SYSTEM LAYOUT

PROJECT No.
21.0056546.00

FIGURE No.
2

LEGEND:

DPT DIFFERENTIAL PRESSURE TRANSMITTER EH EMERGENCY HIGH SWITCH FE FLOW ELEMENT FI FLOW INDICATOR FM FLOW METER H HIGH LEVEL FOR PUMP ON L LOW LEVEL FOR PUMP OFF LO LOW OIL LEVEL MOV MOTOR OPERATED VALVE PG PRESSURE GAUGE PS PRESSURE SWITCH TG TEMPERATURE GAUGE TS TEMPERATURE SWITCH VG VACUUM GAUGE VS VACUUM SWITCH VRV VACUUM RELIEF VALVE	CHECK VALVE BALL VALVE SAMPLE PORT RELIEF VALVE SOLENOID VALVE GLOBE VALVE BUTTERFLY VALVE UNION GATE VALVE WYE STRAINER



NOTE:

1. FIGURE ADAPTED FROM A DRAWING DEVELOPED AND PROVIDED BY NATIONAL ENVIRONMENTAL SYSTEMS, DATED 10-07-06.

DRAWN BY: DEW

DATE: JUNE 2011

GZA GeoEnvironmental of New York

NOT TO SCALE

GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10

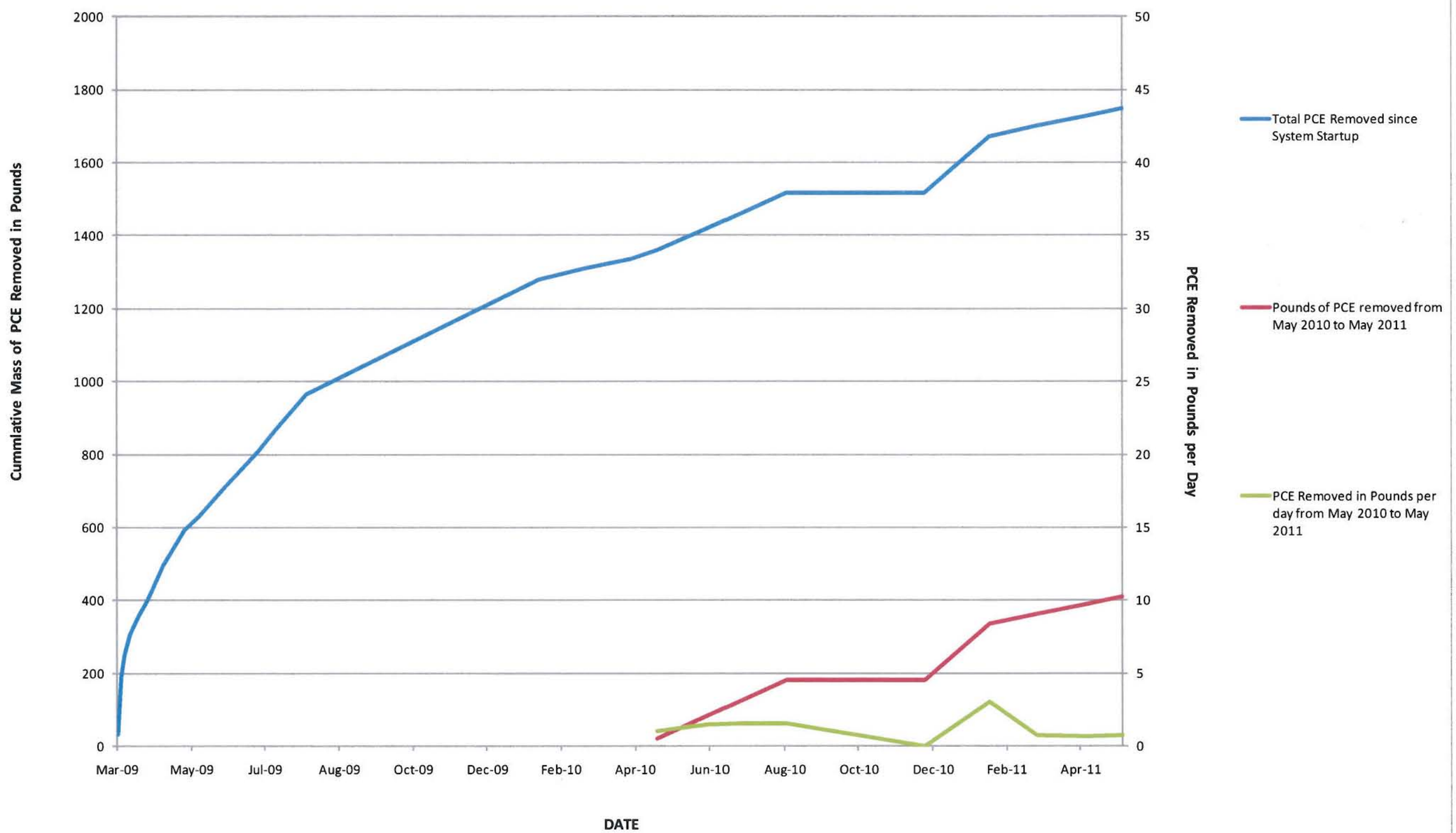
SVE / SSD SYSTEM 2011 MONITORING REPORT

SVE / SSD SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM

PROJECT No.
21.0056546.00

FIGURE No.
3

Building 10 SVE/SSD System Performance
March 2009 - May 2011



DRAWN BY: DEW

DATE: JUNE 2011

GZA GeoEnvironmental of New York

NOT TO SCALE

GM COMPONENTS HOLDINGS, LLC

LOCKPORT FACILITY

200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK

BUILDING 10

SVE / SSD SYSTEM 2011 MONITORING REPORT

BLDG 10 SVE SYSTEM PERFORMANCE

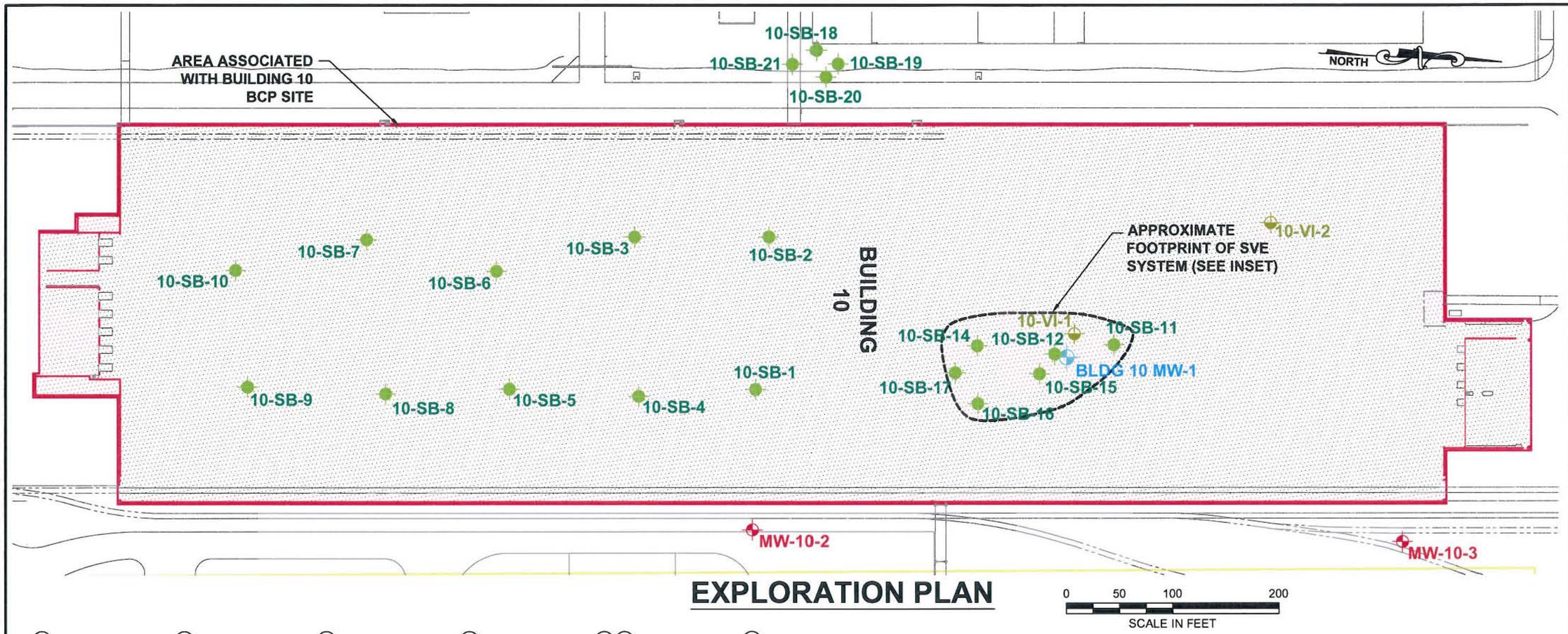
MARCH 2010 - APRIL 2011

PROJECT No.

21.0056546.00

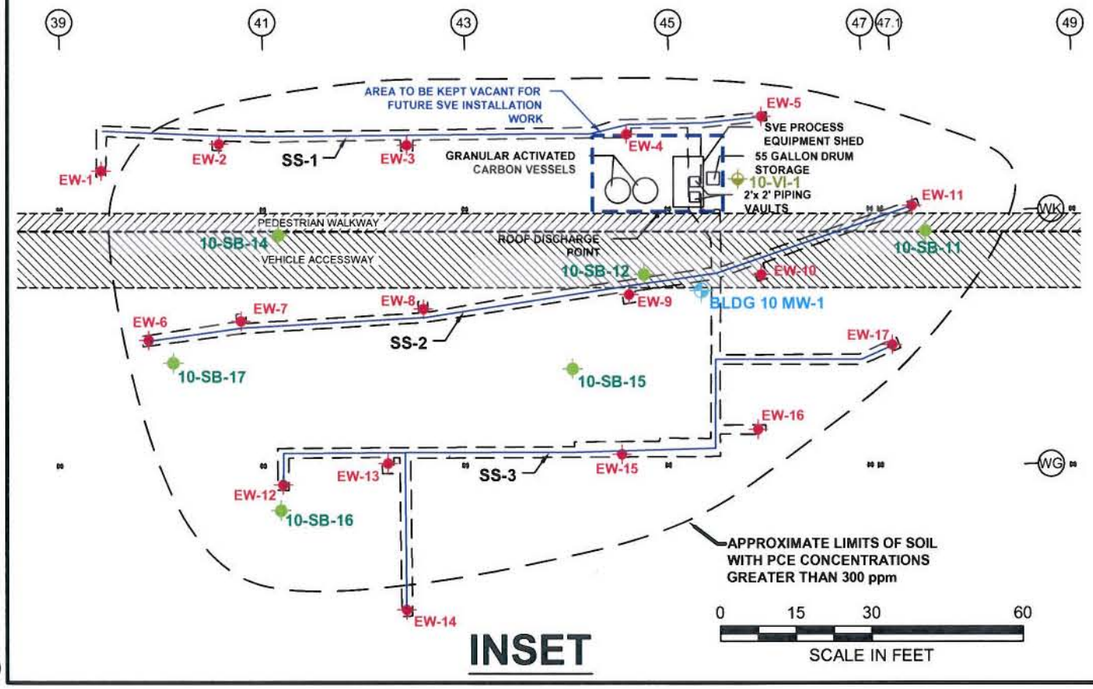
FIGURE No.

4



EXPLORATION PLAN

0 50 100 200
SCALE IN FEET



INSET

0 15 30 60
SCALE IN FEET

LEGEND:

- 10-SB-1 — APPROXIMATE LOCATION OF SOIL PROBES COMPLETED AS PART OF THE BCP INVESTIGATION
- MW-10-2 — APPROXIMATE LOCATION OF BEDROCK MONITORING WELLS INSTALLED AND SAMPLED AS PART OF THE BCP INVESTIGATION
- 10-VI-1 — APPROXIMATE LOCATION OF INTERIOR VAPOR INTRUSION SAMPLES COMPLETED AS PART OF THE BCP INVESTIGATION
- BLDG 10 MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF EXISTING MONITORING WELLS SAMPLED AS PART OF THE BCP INVESTIGATION

DRAWN BY: DEW
DATE: JUNE 2011

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET
AS SHOWN

GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10
SVE / SSD SYSTEM 2010 MONITORING REPORT
BUILDING 10 SITE ID# 932140
EXPLORATION PLAN

PROJECT No.
21.0056546.00

FIGURE No.
5

G:\PROJECTS\56500s\56546 GM Component LLC\Bldg 10 SVE-SSD Monitoring Report\2010-2011\Figure 5.dwg [Figure 1] June 06, 2011 - 9:58am daniel.wulf

APPENDIX A

PCE MASS CALCULATIONS

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMHC Bldg 10 SVE/SSD System — File No. 21.0056546.0
Location Lockport NY — Date 5/5/10 — By CL.
Subject Ave PCE Conc. in SVE Footprint — Checked 5/6/10 — By DJT
Based on Lab Data. — Revised — By

17 Soil Samples were collected from within the SVE area footprint as follows w/ PCE conc.

SP-1: 0-2 ft : 72 ppm
2-4 : 119
4-6 : 177
6-8 : 506

SP-2: 2-4 ft : 5 ppm

SP-3 2-4 ft 770 ppm

SP-4: 6-7.1 ft 447 ppm

SP-7: 4-6 ft 297 ppm

SP-13: 4-6 ft : 260 ppm
6-8 ft : 105 ppm

SP-14: 2-4 ft 25 ppm
4-6 ft 1,120 ppm

SP-15: 6-8 ft : 5 ppm
8-9 ft : 4 ppm

SP-20 0-2 ft : 28 ppm
2-4 ft 1025 ppm
4-6 ft : 1090 ppm

Ave PCE Conc: 359 ppm

Say 360 ppm

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMHC TSldg 10 SVE/SSD			File No. 21.0056546.0
Location Lockport NY	Date 5/5/10	By	cdo.
Subject Mass of PCE in Unsaturated Soil	Checked 5/6/10	By	DST
Based on	Revised	By	

Mass of PCE in unsaturated soil to be addressed w/ SVE System in TSldg 10

- Area to be addressed is ~14,000 sq. ft.
- Assume Unsaturated soil thickness is 6.0 ft.
  (6.5 ft to water table − 0.5 ft for concrete + fill)
- Assume 360 ppm PCE average soil concentration.
- Assume 10% of volume contains utilities

14,000 sq ft. × 6 ft = 84,000 ft³ (3,111 yds³)

3,111 yds³ × 0.90 = 2,800 yd³ (vol. w/out utilities)

2,800 yds³ * 1.6 tons/yd³ = 4,480 tons of soil

4,480 tons * 1,016 kg/ton = 4,551,680 kg

360 mg/kg * 4,551,680 kg = 1,638,604,800 mg

1,638,604,800 mg * 2.2046×10^{-6} = 3,613 pounds
(convert mg to pounds)

Say 3,600 lbs OF PCE

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMCH Bldg 10 SVE/SSD System			File No. 21.0056546.0
Location Lockport, NY	Date 5/5/10	By	clo
Subject PLE Removal Rate Calc.	Checked 5/6/10	By	DJT
Based on	Revised	By	

Pounds of PCE Removed by SVE Sys for Time Period
3/6/09 → 3/9/09.

Days between Readings: 2.9 days

Ave System Flow between Readings: (300 scfm + 280 scfm) ÷ 2

290 scfm

Estimate Average PCE Conc. between Readings: $\frac{41\ ppmv + 192\ ppmv}{2}$

= 117 ppmv

2.9 days * 290 scfm * 24 $\frac{hrs}{day}$ * 60 $\frac{min}{hr}$

= 1,211,040 ft^3

1,211,040 ft^3 * 0.02832 ($\frac{m^3}{ft^3}$ conversion) = 34,297 m^3

117 ppmv * 6.78 ($\frac{mg/m^3}{ppmv}$ conversion) = 793 mg/m^3

34,297 m^3 * 793 mg/m^3 = 27,197,521 mg

(27,198 g)

27,198 g * 0.002205 ($\frac{pounds}{g}$ conversion) = **60 pounds PCE REMOVED**

APPENDIX B

ROUTINE MONITORNG FORMS

(MAY 2010 – APRIL 2011)

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Bovon | Time On-Site: 1030 | Time Off-Site: 1130

Date: 5/14/10 | SVE Blower Run Time: 10342.1 hours | VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		(YES)	NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	4	in Hg
Temperature on Discharge Silencer:	112	° F
Temperature after Heat Exchanger:	75	° F
Pressure After Heat Exchanger	30	in H_2O
Pressure Before Heat Exchanger	38	in H_2O
Pressure Magnehelic Gauge:	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1.0	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 343 cfm
Flow Rate Based on Vacuum Gauge: 290 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	<1	in Hg
EW-2:	1	in Hg	EW-12:	<1	in Hg
EW-3:	<1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	<1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1.75	in H2O
EW-9:	1	in Hg	SS-2:	2.0	in H2O
EW-10:	1	in Hg	SS-3:	1.75	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	1.1	ppm
Background Inside SVE Shed:	1.1	ppm
Pre Carbon Discharge:	17.2	ppm
Mid Carbon Discharge:	11.2	ppm
Post Carbon Discharge:	1.9	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	10	ppm
Mid Carbon	(YES)	NO	8	ppm
Post Carbon	(YES)	NO	ND	ppm

Additional Notes: Tedlar bag samples collected and sent to H+A for analysis Duplicate sample from Pre Carbon.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 16-May-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: DMC
QA/QC: MGN

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350	2.165	54.2	3.631	7.26	mg/m^3	11.07	ppmV	0.01	0.18	9.43	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 5/14/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time: 1500	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669	13.548	3.1	0.565	1.13	mg/m^3	0.29	ppmV	0.00	0.03	1.47	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	23.895	131.5	29.316	58.63	mg/m^3	8.65	ppmV	0.06	1.48	76.12	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			50.0	5.000	10.00	mg/m^3	1.75	ppmV	0.01	0.25	12.98	Estimated Area
			total volatiles			239		**77.0**	mg/m^3	**21.7**	ppmV	**0.08**	**1.94**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 5/14/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
1500	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.003	125.6	28.009	56.02	mg/m^3	8.26	ppmV	0.06	1.41	94.92	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			15.0	1.500	3.00	mg/m^3	0.52	ppmV	0.00	0.08	5.08	Estimated Value
			total volatiles			141		**59.0**	mg/m^3	**8.8**	ppmV	**0.06**	**1.49**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date: 5/14/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time: 1500	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp = ºF	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
			total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baron Time On-Site: 1440 Time Off-Site: _____

Date: 6/24/10 SVE Blower Run Time: 115B + 10172 hours VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		YES	NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: _____ gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	5	in Hg
Vacuum Gauge Post-Inline Filter:	4	in Hg
Temperature on Discharge Silencer:	130	° F
Temperature after Heat Exchanger:	90	° F
Pressure After Heat Exchanger	26	in H_2O
Pressure Before Heat Exchanger	32	in H_2O
Pressure Magnehelic Gauge:	2.3	in H_2O
Vacuum Magnehelic Gauge:	> 2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:
1 in Hg difference in pre & post ~~carbon~~ filter gauges. Filter changed.

Flow Rate Based on Pressure Gauge: 320 cfm
Flow Rate Based on Vacuum Gauge: 280 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	< 1	in Hg		EW-11:	1	in Hg		**Vaccum Gauge Reading Notes:**
EW-2:	1.25	in Hg		EW-12:	< 1	in Hg		
EW-3:	* 1	in Hg		EW-13:	< 1	in Hg		
EW-4:	< 1	in Hg		EW-14:	1	in Hg		
EW-5:	< 1	in Hg		EW-15:	1	in Hg		
EW-6:	< 1	in Hg		EW-16:	< 1	in Hg		
EW-7:	< 1	in Hg		EW-17:	< 1	in Hg		
EW-8:	< 1	in Hg		SS-1:	2	in H2O		
EW-9:	1	in Hg		SS-2:	2	in H2O		
EW-10:	1	in Hg		SS-3:	2.5	in H2O		

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	NM	ppm
Background Inside SVE Shed:	NM	ppm
Pre Carbon Discharge:	17.2	ppm
Mid Carbon Discharge:	0.2	ppm
Post Carbon Discharge:	0.0	ppm

Detector Tube Readings

Pre Carbon	YES	NO	20	ppm
Mid Carbon	YES	NO	ND	ppm
Post Carbon	YES	NO	ND	ppm

Additional Notes:
NM = not measured. Samples were screened back at the office
Duplicate air sample collected from Pre-Carbon. Air samples sent to H&A for GC Screen.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 25-Jun-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 6/24/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669	13.823	1.4	0.248	0.50	mg/m^3	0.12	ppmV	0.00	0.01	0.52	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	23.898	195.6	43.629	87.26	mg/m^3	12.87	ppmV	0.09	2.20	91.13	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			40.0	4.000	8.00	mg/m^3	1.40	ppmV	0.01	0.20	8.35	Estimated Area
			total volatiles			237		**95.8**	mg/m^3	**14.4**	ppmV	**0.10**	**2.41**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Duplicate	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Pre-Carbon	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 6/24/2010	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669	13.810	1.1	0.196	0.39	mg/m^3	0.10	ppmV	0.00	0.01	0.44	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	23.880	184.1	41.053	82.11	mg/m^3	12.11	ppmV	0.09	2.07	92.78	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	6.78	Estimated Area
			total volatiles			215		**88.5**	mg/m^3	**13.3**	ppmV	**0.09**	**2.23**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 6/24/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			35.0	3.500	7.00	mg/m^3	1.22	ppmV	0.01	0.18	100.00	Estimated Value
			total volatiles			35		**7.0**	mg/m^3	**1.2**	ppmV	**0.01**	**0.18**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 6/24/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			35.0	3.500	7.00	mg/m^3	1.22	ppmV	0.01	0.18	100.00	Estimated Area
			total volatiles			35		**7.0**	mg/m^3	**1.2**	ppmV	**0.01**	**0.18**	**100.00**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baron Time On-Site: 1100 Time Off-Site: 1200

Date: 7/19/10 SVE Blower Run Time: 11,926.5 hours VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		(YES)	NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	3.5	in Hg
Vacuum Gauge Post-Inline Filter:	5.5	in Hg
Temperature on Discharge Silencer:	135	°F
Temperature after Heat Exchanger:	90	°F
Pressure After Heat Exchanger	26	in H_2O
Pressure Before Heat Exchanger	32	in H_2O
Pressure Magnehelic Gauge:	2.2	in H_2O
Vacuum Magnehelic Gauge:	>2.0	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes: Inline Filter Changed
Vac. Gauge Readings after Change:
Pre: 3.5 in Hg
Post: 4.0 in Hg

Flow Rate Based on Pressure Gauge: 316 cfm
Flow Rate Based on Vacuum Gauge: 281 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW-1:	<1	in Hg	EW-11:	1	in Hg
EW-2:	1.25	in Hg	EW-12:	<1	in Hg
EW-3:	1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1.25	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	<1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1	in H2O
EW-9:	1	in Hg	SS-2:	1.5	in H2O
EW-10:	1.25	in Hg	SS-3:	1.5	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	NM	ppm
Background Inside SVE Shed:	NM	ppm
Pre Carbon Discharge:	21	ppm
Mid Carbon Discharge:	ND	ppm
Post Carbon Discharge:	ND	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	20	ppm
Mid Carbon	(YES)	NO	ND	ppm
Post Carbon	(YES)	NO	ND	ppm

Additional Notes:

Samples were screened back at GZA office. Air samples sent to Haley & Aldrich for GC Screen. Duplicate sample collected from Pre-Carbon. No Post Carbon data will be reported as tedlar bag arrived empty.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 20-Jul-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 7/19/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	18.970	2.6	0.554	1.11	mg/m^3	0.21	ppmV	0.00	0.03	0.91	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.027	248.5	55.422	110.84	mg/m^3	16.35	ppmV	0.12	2.79	90.89	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			50.0	5.000	10.00	mg/m^3	1.75	ppmV	0.01	0.25	8.20	Estimated Area
			total volatiles			301		**122.0**	mg/m^3	**18.3**	ppmV	**0.13**	**3.07**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Duplicate	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Pre-Carbon	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 7/19/2010	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	18.980	2.8	0.584	1.17	mg/m^3	0.22	ppmV	0.00	0.03	0.89	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.037	250.3	55.806	111.61	mg/m^3	16.46	ppmV	0.12	2.81	85.34	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			90.0	9.000	18.00	mg/m^3	3.14	ppmV	0.02	0.45	13.76	Estimated Area
			total volatiles			343		**130.8**	mg/m^3	**19.8**	ppmV	**0.14**	**3.29**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 7/19/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	18.978	1.6	0.346	0.69	mg/m^3	0.13	ppmV	0.00	0.02	6.14	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.278	1.3	0.289	0.58	mg/m^3	0.09	ppmV	0.00	0.01	5.13	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			50.0	5.000	10.00	mg/m^3	1.75	ppmV	0.01	0.25	88.73	Estimated Value
			total volatiles			53		**11.3**	mg/m^3	**2.0**	ppmV	**0.01**	**0.28**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date: 7/19/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
BAG ARRIVED DEFLATED	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	Estimated Area
			total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baron | Time On-Site: 810 | Time Off-Site: 920

Date: 8/26/10 | SVE Blower Run Time: 12835 hours | VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:				
Alarm lights off:	(YES)	NO	If no:				
Autodialer Alarm On:	YES	(NO)	If Yes:				
Postion of Swing Panel HOA Switches:							
Control Power Switch	(ON)	OFF	SVE Blower Switch	HAND	OFF	(AUTO)	
M/S Effluent Pump Switch	HAND	(OFF) AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)	
Heat Exchanger Operating	(YES)	NO	If no:				
SVE System appear to be operating properly?	(YES)	NO	If no:				
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	∅ gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	5	in Hg
Temperature on Discharge Silencer:	130	° F
Temperature after Heat Exchanger:	88	° F
Pressure After Heat Exchanger	26	in H_2O
Pressure Before Heat Exchanger	32	in H_2O
Pressure Magnehelic Gauge:	2.3	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:
Changed Inline filter.

Flow Rate Based on Pressure Gauge: 320 cfm

Flow Rate Based on Vacuum Gauge: 280 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	1	in Hg
EW-2:	1	in Hg	EW-12:	<1	in Hg
EW-3:	1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	<1	in Hg
EW-7:	1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	2	in H2O
EW-9:	1	in Hg	SS-2:	2.5	in H2O
EW-10:	1	in Hg	SS-3:	2	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:		ppm
Background Inside SVE Shed:	NM	ppm
Pre Carbon Discharge:	18	ppm
Mid Carbon Discharge:	10	ppm
Post Carbon Discharge:	ND	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	15	ppm
Mid Carbon	(YES)	NO	9	ppm
Post Carbon	(YES)	NO	ND	ppm

Additional Notes:
Need to order colorimetric tubes (high range), tedlar bags and silicon tubing. Dupicate sample collected from the mid carbon and samples were given to D. Cooley at Site. SVE system shut down per NYSDEC + NYSDOH approval at Site meeting. Carbon vessel to be changed.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 26-Aug-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 8/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.750	1.9	1.258	2.52	mg/m^3	0.52	ppmV	0.00	0.06	1.32	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.610	3.4	0.729	1.46	mg/m^3	0.27	ppmV	0.00	0.04	0.77	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.600	340.0	75.820	151.64	mg/m^3	22.36	ppmV	0.16	3.82	79.55	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			175.0	17.500	35.00	mg/m^3	6.11	ppmV	0.04	0.88	18.36	
			total volatiles			520		**190.6**	mg/m^3	**29.3**	ppmV	**0.20**	**4.80**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 8/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.780	4.8	3.104	6.21	mg/m^3	1.27	ppmV	0.01	0.16	4.75	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.630	15.7	3.328	6.66	mg/m^3	1.24	ppmV	0.01	0.17	5.09	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.600	181.0	40.363	80.73	mg/m^3	11.90	ppmV	0.08	2.03	61.72	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			186.0	18.600	37.20	mg/m^3	6.50	ppmV	0.04	0.94	28.44	
			total volatiles			387		**130.8**	mg/m^3	**20.9**	ppmV	**0.14**	**3.29**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Duplicate	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 8/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.750	4.8	3.143	6.29	mg/m^3	1.29	ppmV	0.01	0.16	6.47	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.610	15.7	3.318	6.64	mg/m^3	1.23	ppmV	0.01	0.17	6.83	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.600	182.0	40.586	81.17	mg/m^3	11.97	ppmV	0.09	2.04	83.60	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			15.0	1.500	3.00	mg/m^3	0.52	ppmV	0.00	0.08	3.09	
			total volatiles			217		**97.1**	mg/m^3	**15.0**	ppmV	**0.10**	**2.44**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 8/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.800	2.9	0.647	1.29	mg/m^3	0.19	ppmV	0.00	0.03	100.00	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
			total volatiles			3		**1.3**	mg/m^3	**0.2**	ppmV	**0.00**	**0.03**	**100.00**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Boron | Time On-Site: 1100 | Time Off-Site: 1330

Date: 12/16/10 | SVE Blower Run Time: 12838.4 hours | VDF: hertz

SYSTEM STATUS

SVE System Operating:	YES	(NO)	If no: System was restarted today after 3mo shutdown
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	AUTO
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	AUTO
Heat Exchanger Operating		YES	(NO)	If no: System was restarted today after 3mo shutdown			
SVE System appear to be operating properly?		(YES)	NO	If no:			
Moisture Separator Tank Level:	(Empty)		1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	3	3	4	in Hg
Vacuum Gauge Post-Inline Filter:	2.25	2	3.5	in Hg
Temperature on Discharge Silencer:	82	92	110	° F
Temperature after Heat Exchanger:	72	74	80	° F
Pressure After Heat Exchanger	24	24	38	in H_2O
Pressure Before Heat Exchanger	30	30	48	in H_2O
Pressure Magnehelic Gauge:	1.5	1.75	2.6	in H_2O
Vacuum Magnehelic Gauge:	2	2	>2	in H_2O
Vacuum Gauge After Manifold:	<1	<1	1.5	in Hg

System Monitoring Notes:
System was restarted at 11:28 on 12/16/10

Flow Rate Based on Pressure Gauge: 325 cfm

Flow Rate Based on Vacuum Gauge: 300 cfm

Based on 60 htz reading @ 1300 hr.

EXTRACTION WELL VACUUM GAUGE READINGS

EW-1:	<1	<1	<1	in Hg	EW-11:	1	1	1	in Hg
EW-2:	1	1	1.5	in Hg	EW-12:	<1	<1	1	in Hg
EW-3:	1	1	1	in Hg	EW-13:	<1	<1	<1	in Hg
EW-4:	<1	<1	<1	in Hg	EW-14:	1	1	1.25	in Hg
EW-5:	<1	<1	<1	in Hg	EW-15:	1	1	1	in Hg
EW-6:	<1	<1	<1	in Hg	EW-16:	<1	<1	1	in Hg
EW-7:	<1	<1	<1	in Hg	EW-17:	<1	<1	<1	in Hg
EW-8:	<1	<1	<1	in Hg	SS-1:	1.5	1.5	2	in H2O
EW-9:	1	1	1	in Hg	SS-2:	2.0	2.0	2	in H2O
EW-10:	1	1	1.25	in Hg	SS-3:	1.5	1.5	2	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0.1	0.1	.1	ppm
Background Inside SVE Shed:	0.2	0.1	.2	ppm
Pre Carbon Discharge:	90	70	65	ppm
Mid Carbon Discharge:	Ø	Ø	Ø	ppm
Post Carbon Discharge:	Ø	Ø	Ø	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	13 ppm
Mid Carbon	(YES)	NO	Ø ppm
Post Carbon	(YES)	NO	Ø ppm

Additional Notes: 11:43 1230 1300
45hz 45hz 60htz

1240 increased drive speed to 60 htz.

3 air samples collected at 1315 in tedlar bags to be sent to H&A for GC Screen.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 17-Dec-10

Client: GM Lockport
File No: 36795-010
Sample Type: BLDG-10 SVE/SSD

Operator: ehs
QA/QC: dmc

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.837			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	12.194			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	19.301			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	19.623			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	21.816			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 12/16/2010	500	75-34-3	1,1-dichloroethane	22.255			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.443			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.963			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.944			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	24.482	24.509	4.3	2.817	5.63	mg/m^3	1.15	ppmV	0.01	0.14	3.32	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	26.309			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	27.338			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	27.925			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	28.793	29.090	8.8	1.861	3.72	mg/m^3	0.69	ppmV	0.00	0.09	2.19	
	500	108-88-3	toluene	31.805			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	33.717	34.005	359.3	80.113	160.23	mg/m^3	23.63	ppmV	0.17	4.03	94.48	
	500	108-90-7	chlorobenzene	34.926			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	35.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.712			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	36.638			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
			total volatiles			372		**169.6**	mg/m^3	**25.5**	ppmV	**0.18**	**4.27**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.837			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-01-4	vinyl chloride	12.194			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-35-4	1,1-dichloroethene	19.301			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	75-09-2	methylene chloride	19.623			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	21.816			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date: 12/16/2010	500	75-34-3	1,1-dichloroethane	22.255			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time:	500	1634-04-4	MTBE	11.443			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-93-3	2-butanone (MEK)	22.963			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	156-59-2	cis 1,2-dichloroethene	23.944			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp = °F	500	67-66-3	chloroform	24.482			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	26.309			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	71-43-2	benzene	27.338			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	78-87-5	1,2-dichloropropane	27.925			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	79-01-6	trichloroethene	28.793			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-88-3	toluene	31.805			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	127-18-4	tetrachloroethene	33.717			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-90-7	chlorobenzene	34.926			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	100-41-4	ethylbenzene	35.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	108-38-3/106-42-3	m/p-xylene	35.712			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500	95-47-6	o-xylene	36.638			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
			total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	7.837			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-01-4	vinyl chloride	12.194			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-35-4	1,1-dichloroethene	19.301			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-09-2	methylene chloride	19.623			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID:	Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	21.816			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date:	12/16/2010	500	75-34-3	1,1-dichloroethane	22.255			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time:		500	1634-04-4	MTBE	11.443			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-93-3	2-butanone (MEK)	22.963			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	156-59-2	cis 1,2-dichloroethene	23.944			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp =	°F	500	67-66-3	chloroform	24.482			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	26.309			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	71-43-2	benzene	27.338			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-87-5	1,2-dichloropropane	27.925			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	79-01-6	trichloroethene	28.793			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-88-3	toluene	31.805			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	127-18-4	tetrachloroethene	33.717			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-90-7	chlorobenzene	34.926			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	100-41-4	ethylbenzene	35.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-38-3/106-42-3	m/p-xylene	35.712			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	95-47-6	o-xylene	36.638			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
				total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baran Time On-Site: 1330 Time Off-Site: 1345

Date: 12/20/10 SVE Blower Run Time: 12937 hours VDF: 60 Hz hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:					
Alarm lights off:	(YES)	NO	If no:					
Autodialer Alarm On:	YES	(NO)	If Yes:					
Postion of Swing Panel HOA Switches:								
Control Power Switch	(ON)	OFF	SVE Blower Switch	HAND	OFF	(AUTO)		
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)	
Heat Exchanger Operating	(YES)	NO	If no:					
SVE System appear to be operating properly?	(YES)	NO	If no:					
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	gals	

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	4.5	in Hg
Temperature on Discharge Silencer:	115	° F
Temperature after Heat Exchanger:	80	° F
Pressure After Heat Exchanger	38	in H_2O
Pressure Before Heat Exchanger	42	in H_2O
Pressure Magnehelic Gauge:	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1.25	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 330 cfm

Flow Rate Based on Vacuum Gauge: 300 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	1	in Hg	**Vaccum Gauge Reading Notes:**		
EW-2:	1.5	in Hg	EW-12:	1	in Hg			
EW-3:	1	in Hg	EW-13:	<1	in Hg			
EW-4:	<1	in Hg	EW-14:	1.5	in Hg			
EW-5:	<1	in Hg	EW-15:	1	in Hg			
EW-6:	<1	in Hg	EW-16:	1	in Hg			
EW-7:	<1	in Hg	EW-17:	<1	in Hg			
EW-8:	<1	in Hg	SS-1:	2	in H2O			
EW-9:	1	in Hg	SS-2:	2	in H2O			
EW-10:	1.25	in Hg	SS-3:	2	in H2O			

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	1.2	ppm
Background Inside SVE Shed:	1.2	ppm
Pre Carbon Discharge:	2.5	ppm
Mid Carbon Discharge:	0	ppm
Post Carbon Discharge:	0	ppm

Detector Tube Readings

Pre Carbon	YES	(NO)	ppm
Mid Carbon	YES	(NO)	ppm
Post Carbon	YES	(NO)	ppm

Additional Notes:

No tedlar bag or detector tube readings collected.

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baron Time On-Site: 1000 Time Off-Site: 1100

Date: 2/7/2011 SVE Blower Run Time: 14045.9 hours VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:				
Alarm lights off:	(YES)	NO	If no:				
Autodialer Alarm On:	YES	(NO)	If Yes:				
Postion of Swing Panel HOA Switches:							
Control Power Switch	(ON)	OFF	SVE Blower Switch	HAND	OFF	(AUTO)	
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating	(YES)	NO	If no:				
SVE System appear to be operating properly?	(YES)	NO	If no:				
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	4	in Hg
Temperature on Discharge Silencer:	105	° F
Temperature after Heat Exchanger:	79	° F
Pressure After Heat Exchanger	37	in H_2O
Pressure Before Heat Exchanger	44	in H_2O
Pressure Magnehelic Gauge:	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1.1	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 330 cfm

Flow Rate Based on Vacuum Gauge: 300 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	1	in Hg
EW-2:	1.5	in Hg	EW-12:		in Hg
EW-3:	1	in Hg	EW-13:		in Hg
EW-4:	<1	in Hg	EW-14:	1.25	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	<1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1.5	in H2O
EW-9:	1	in Hg	SS-2:	2	in H2O
EW-10:	1.2	in Hg	SS-3:	1.5	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	1.0	ppm
Background Inside SVE Shed:	1.2	ppm
Pre Carbon Discharge:	9.7	ppm
Mid Carbon Discharge:	Ø	ppm
Post Carbon Discharge:	Ø	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	See below	ppm
Mid Carbon	(YES)	NO	Ø	ppm
Post Carbon	YES	(NO)	NM	ppm

Additional Notes:

Low Range Detector Tube: 9 ppm
High Range Detector Tube: 3 ppm

Tedlar bag samples sent to H+A for analysis. Duplicate sample from Pre-Carbon.

GAS CHROMATOGRAPHY REPORT SHEET
GC SCREENING RESULTS
DIRECT INJECT

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Date of Analysis: 9-Feb-11
ICAL Curve Date: Jan-11

Operator: MGN
QA/QC: MGN

Removal Efficiency (Pre-Carbon to Mid-Carbon) 93%
Removal Efficiency (Pre-Carbon to Post-Carbon) 100%

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 2/7/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	23.700	23.678	8.6	5.622	11.24	mg/m^3	2.30	ppmV	0.012	0.28	19.18	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528	25.313	2.4	0.524	1.05	mg/m^3	0.19	ppmV	0.001	0.03	1.79	
	500	71-43-2	benzene	26.332	26.549	1.1	0.049	0.10	mg/m^3	0.03	ppmV	0.000	0.00	0.17	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	28.017	28.290	1.3	0.278	0.56	mg/m^3	0.10	ppmV	0.001	0.01	0.95	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	32.975	33.241	75.5	16.829	33.66	mg/m^3	4.96	ppmV	0.035	0.85	57.43	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			60.0	6.000	12.00	mg/m^3	2.10	ppmV	0.013	0.30	20.48	
			total volatiles			149		58.6	mg/m^3	9.7	ppmV	0.061	1.48	100.00	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon (DUP)	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 2/7/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	23.700	23.683	8.9	5.825	11.65	mg/m^3	2.39	ppmV	0.012	0.29	20.71	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528	25.294	2.9	0.633	1.27	mg/m^3	0.23	ppmV	0.001	0.03	2.25	
	500	71-43-2	benzene	26.332	26.533	0.9	0.045	0.09	mg/m^3	0.03	ppmV	0.000	0.00	0.16	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	28.017	28.274		0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	32.975	33.215	70.1	15.629	31.25	mg/m^3	4.61	ppmV	0.033	0.79	55.55	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			60.0	6.000	12.00	mg/m^3	2.10	ppmV	0.013	0.30	21.33	
			total volatiles			143		56.3	mg/m^3	9.4	ppmV	0.059	1.42	100.00	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 2/7/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	32.975			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			20.0	2.000	4.00	mg/m^3	0.70	ppmV	0.004	0.10	100.00	
			total volatiles			20		4.0	mg/m^3	0.7	ppmV	0.004	0.10	100.00	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
Date: 2/7/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
Temp = °F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	127-18-4	tetrachloroethene	32.975			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
	500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	#DIV/0!	
			total volatiles			0		0.0	mg/m^3	0.0	ppmV	0.000	0.00	#DIV/0!	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Baron | Time On-Site: 1140 | Time Off-Site: 1250

Date: 3/17/2011 | SVE Blower Run Time: 14959 hours | VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		(YES)	NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full | Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	5	in Hg
Temperature on Discharge Silencer:	120	° F
Temperature after Heat Exchanger:	79	° F
Pressure After Heat Exchanger	34	in H_2O
Pressure Before Heat Exchanger	40	in H_2O
Pressure Magnehelic Gauge:	2.4	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1.0	in Hg

System Monitoring Notes:
Changed in line air filter

Flow Rate Based on Pressure Gauge: 320 cfm
Flow Rate Based on Vacuum Gauge: 300 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	1	in Hg
EW-2:	1.5	in Hg	EW-12:	<1	in Hg
EW-3:	1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1.25	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	<1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1.75	in H2O
EW-9:	1	in Hg	SS-2:	2.0	in H2O
EW-10:	1	in Hg	SS-3:	1.5	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	1.1	ppm
Background Inside SVE Shed:	1.1	ppm
Pre Carbon Discharge:	9.1	ppm
Mid Carbon Discharge:	0	ppm
Post Carbon Discharge:	0.3	ppm

Detector Tube Readings

Pre Carbon	YES	(NO)	ppm
Mid Carbon	YES	(NO)	ppm
Post Carbon	YES	(NO)	ppm

Additional Notes:
Tedlar bag samples sent to H+A for analysis. Duplicate sample collected from Mid Carbon.

GAS CHROMATOGRAPHY REPORT SHEET
GC SCREENING RESULTS
DIRECT INJECT

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Date of Analysis: 18-Mar-11
ICAL Curve Date: Jan-11

Operator: ehs
QA/QC: MGN

Removal Efficiency (Pre-Carbon to Mid-Carbon) 62%
Removal Efficiency (Pre-Carbon to Post-Carbon) 80%

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 3/17/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	32.975	28.409	31.8	7.084	14.17	mg/m^3	2.09	ppmV	0.015	0.36	75.62	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			22.8	2.283	4.57	mg/m^3	0.80	ppmV	0.005	0.11	24.38	
			total volatiles			55		**18.7**	mg/m^3	**2.9**	ppmV	**0.020**	**0.47**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	7.125	4.146	2.1	0.138	0.28	mg/m^3	0.42	ppmV	0.000	0.01	2.51	
	500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon (DUP)	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 3/17/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	32.975	29.365	13.4	2.985	5.97	mg/m^3	0.88	ppmV	0.006	0.15	54.44	
	500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			23.6	2.361	4.72	mg/m^3	0.82	ppmV	0.005	0.12	43.05	
			total volatiles					**11.0**	mg/m^3	**2.1**	ppmV	**0.012**	**0.28**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	7.125	4.038	26.9	1.805	3.61	mg/m^3	5.50	ppmV	0.004	0.09	50.40	
		500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID:	Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date:	3/17/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:		500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	127-18-4	tetrachloroethene	32.975			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500		Unknown TPH			17.8	1.776	3.55	mg/m^3	0.62	ppmV	0.004	0.09	49.60	
				total volatiles			45		**7.2**	mg/m^3	**6.1**	ppmV	**0.008**	**0.18**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	7.125	4.036	1.1	0.073	0.15	mg/m^3	0.22	ppmV	0.000	0.00	3.88	
		500	75-01-4	vinyl chloride	11.568			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	18.445			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-09-2	methylene chloride	18.802			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID:	Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	20.994			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date:	3/17/2011	500	75-34-3	1,1-dichloroethane	21.503			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:		500	1634-04-4	MTBE	21.807			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	22.171			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	23.172			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	23.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	25.528			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	71-43-2	benzene	26.332			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	27.251			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	79-01-6	trichloroethene	28.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-88-3	toluene	31.017			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	127-18-4	tetrachloroethene	32.975	29.270	2.6	0.572	1.14	mg/m^3	0.17	ppmV	0.001	0.03	30.55	
		500	108-90-7	chlorobenzene	34.118			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	100-41-4	ethylbenzene	34.748			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	35.214			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	95-47-6	o-xylene	35.824			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500		Unknown TPH			12.3	1.228	2.46	mg/m^3	0.43	ppmV	0.003	0.06	65.57	
				total volatiles			16		**3.7**	mg/m^3	**0.8**	ppmV	**0.004**	**0.09**	**100.00**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Boran Time On-Site: 815 Time Off-Site: _____

Date: 4/26/11 SVE Blower Run Time: 15914 hours VDF: 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		(YES)	NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: _____ gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	4	in Hg
Temperature on Discharge Silencer:	115	° F
Temperature after Heat Exchanger:	78	° F
Pressure After Heat Exchanger	37	in H_2O
Pressure Before Heat Exchanger	42	in H_2O
Pressure Magnehelic Gauge:	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 330 cfm

Flow Rate Based on Vacuum Gauge: 300 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	<1	in Hg	EW-11:	1	in Hg
EW-2:	1	in Hg	EW-12:	<1	in Hg
EW-3:	1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1.5	in H2O
EW-9:	1	in Hg	SS-2:	2.0	in H2O
EW-10:	1	in Hg	SS-3:	1.5	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0	ppm
Background Inside SVE Shed:	0	ppm
Pre Carbon Discharge:	6.8	ppm
Mid Carbon Discharge:	0	ppm
Post Carbon Discharge:	0	ppm

Detector Tube Readings

Pre Carbon	YES	(NO)	_____ ppm
Mid Carbon	YES	(NO)	_____ ppm
Post Carbon	YES	(NO)	_____ ppm

Additional Notes:

Collected tedlar bag air samples to be sent to H&A.
Duplicate sample collected from Mid Carbon.

GAS CHROMATOGRAPHY REPORT SHEET
GC SCREENING RESULTS
DIRECT INJECT

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Date of Analysis: 27-Apr-11
ICAL Curve Date: Jan-11

Operator: ehs
QA/QC: MGN

Removal Efficiency (Pre-Carbon to Mid-Carbon) 89%
Removal Efficiency (Pre-Carbon to Post-Carbon) 89%

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	4.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	7.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	14.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	14.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	17.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 4/26/2011	500	75-34-3	1,1-dichloroethane	17.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	18.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	19.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	19.800			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	21.600			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	71-43-2	benzene	22.400			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	24.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	27.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	29.200	29.569	51.4	11.459	22.92	mg/m^3	3.38	ppmV	0.024	0.58	90.24	
	500	108-90-7	chlorobenzene	30.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	30.900			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	31.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	32.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			12.4	1.239	2.48	mg/m^3	0.43	ppmV	0.003	0.06	9.76	
			total volatiles			64		**25.4**	mg/m^3	**3.8**	ppmV	**0.027**	**0.64**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	4.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-01-4	vinyl chloride	7.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	14.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	75-09-2	methylene chloride	14.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID: Pre-Carbon (DUP)	500	156-60-5	trans 1,2-dichloroethene	17.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date: 4/26/2011	500	75-34-3	1,1-dichloroethane	17.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:	500	1634-04-4	MTBE	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	18.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	19.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	19.800			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	21.600			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	71-43-2	benzene	22.400			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	79-01-6	trichloroethene	24.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-88-3	toluene	27.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	127-18-4	tetrachloroethene	29.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-90-7	chlorobenzene	30.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	100-41-4	ethylbenzene	30.900			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	31.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500	95-47-6	o-xylene	32.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
	500		Unknown TPH			13.3	1.329	2.66	mg/m^3	0.46	ppmV	0.003	0.07	100.00	
			total volatiles					**2.7**	mg/m^3	**0.5**	ppmV	**0.003**	**0.07**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	4.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-01-4	vinyl chloride	7.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	14.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-09-2	methylene chloride	14.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID:	Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	17.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date:	4/26/2011	500	75-34-3	1,1-dichloroethane	17.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:		500	1634-04-4	MTBE	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	18.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	19.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	19.800			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	21.600			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	71-43-2	benzene	22.400			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	79-01-6	trichloroethene	24.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-88-3	toluene	27.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	127-18-4	tetrachloroethene	29.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-90-7	chlorobenzene	30.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	100-41-4	ethylbenzene	30.900			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	31.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	95-47-6	o-xylene	32.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500		Unknown TPH			13.6	1.362	2.72	mg/m^3	0.48	ppmV	0.003	0.07	100.00	
				total volatiles			14		**2.7**	mg/m^3	**0.5**	ppmV	**0.003**	**0.07**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	4.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-01-4	vinyl chloride	7.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	14.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	75-09-2	methylene chloride	14.700			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
ID:	Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	17.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Date:	4/26/2011	500	75-34-3	1,1-dichloroethane	17.500			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Time:		500	1634-04-4	MTBE	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	18.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	19.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	19.800			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	21.600			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	71-43-2	benzene	22.400			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	0.000			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	79-01-6	trichloroethene	24.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-88-3	toluene	27.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	127-18-4	tetrachloroethene	29.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-90-7	chlorobenzene	30.300			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	100-41-4	ethylbenzene	30.900			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	31.200			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500	95-47-6	o-xylene	32.100			0.000	ND	mg/m^3	ND	ppmV	0.000	0.00	0.00	
		500		Unknown TPH			14.2	1.423	2.85	mg/m^3	0.50	ppmV	0.003	0.07	100.00	
				total volatiles			14		**2.8**	mg/m^3	**0.5**	ppmV	**0.003**	**0.07**	**100.00**	