LABELLA Associates, P.C.

Engineering
Architecture
Environmental

2011 Periodic Review Report: NYSDEC BCP Site No. C828115

Location:

Rochester Drug Cooperative Building
320 North Goodman Street
Rochester, New York

Prepared for:

The Gary and Marcia Stern Family Limited Partnership
320 North Goodman Street
Rochester, New York 14607

LaBella Project No. 211352

July 6, 2011

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LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

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1.0 INTRODUCTION

LaBella Associates, P.C. (LaBella) is pleased to submit this Periodic Review Report (PRR) for the property located at 320 North Goodman Street, City of Rochester, Monroe County, New York, herein after referred to as the "site". The site is identified as New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site #C828115. A site Location Map is included as Figure 1.

The site is located in the County of Monroe, New York and is identified as Block 84 and Lot 1.0 on the City of Rochester Tax Map # 106. The site is situated on an approximately 2.7-acre area bounded by the CSX Goodman Street Yards and railroad tracks to the north and east, the Village Gate Square Mall to the south, and residential properties are located adjacent to the west of the Site, across North Goodman Street (see Figure 2).

LaBella was retained by The Gary and Marcia Stern Limited Family Partnership to assist in the monitoring and reporting requirements associated with the Site Management Plan (SMP) prepared for the site.

1.1 Environmental History

Previous environmental investigations at the site identified the nature and extent of contamination to be limited to petroleum contamination in soil, groundwater, and soil vapor. The apparent source of the petroleum impacts was four (4) petroleum underground storage tanks (USTs) that were formerly located in the eastern portion of the site. Two (2) additional USTs were reportedly removed by others in the early 1970s, and another UST was removed by others in 1998. There was no closure documentation for the tanks removed from the site.

There are two (2) NYSDEC Spills associated with the site (#9506933 and #0106407). Both spills have been closed by the NYSDEC, however, the investigation and remediation of the petroleum impacts were performed as part of the BCP project that are associated with NYSDEC Spill #0106407. The site was entered into the NYSDEC BCP on May 18, 2004.

A Remedial Investigation (RI) was conducted by GeoQuest Environmental, Inc. (GeoQuest) in September 2003 to complete the delineation of the horizontal and vertical extent of petroleum-impacted soil and groundwater at the site. This RI consisted of advancing seven (7) direct-push soil borings (designated MW-13 through MW-17 and B-18 and B-19) of which five (5) were converted into temporary groundwater monitoring wells (designated MW-13 through MW-17). GeoQuest's RI concluded that:

- the source of the petroleum impacts at the 320 North Goodman Street Site emanated from on-site petroleum storage tanks that had previously been removed from the site;
- there were no current or reasonably foreseeable exposure pathways since the impacted area was to remain a parking lot; and,
- conditions at the site required remediation in order to meet the NYSDEC BCP requirements.

In April 2005, GeoQuest conducted an Interim Remedial Measure (IRM) Soil Removal program at the site. As part of the IRM, an ex-situ treatment biocell was constructed, on the easterly adjacent Village

Gate Square property, to treat approximately 2,103 cubic yards of petroleum-impacted soil that was excavated from the site. This petroleum-impacted soil was placed in a "biocell" for remediation over time. Subsequent to screening and sampling the biocell soils, NYSDEC approved, in 2009, grading of the biocell soils into an existing soil berm to the east of the on-site building and covered with one (1) foot of clean soil.

An active Sub-Slab Depressurization System (SSDS) was installed beneath the concrete slab of the on-site building in November 2006. The SSDS was designed to depressurize the subsurface immediately below the concrete floor slab, thus restricting soil vapor intrusion into the on-site building from beneath the floor slab. Additional sub-slab depressurization fans were installed in the on-site building in 2009. Subsequent testing of these monitoring points (i.e. radius of influence testing) indicated negative pressures beneath the floor slab throughout the on-site building.

A Final Engineering Report dated December 2009 by LaBella documented the remedial work. A Site Management Plan (SMP) dated December 2009 by LaBella provides the required monitoring and reporting for the Site. Based on the remedial work completed a certificate of completion was issued for the site in 2009.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this report is to present the monitoring work completed at the site during the period January 2010 to June 2011. This work was completed in general accordance with the provisions identified in the SMP. As required in the SMP, this report includes the following information:

- Identification, assessment and certification of all Engineering Controls/Institutional Controls (ECs/ICs) required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format (included in report);
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the site-specific RAWP;
    - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
    - The overall performance and effectiveness of the remedy.

3.0 ANNUAL MONITORING

Monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for the first two (2) years, via semi-annual sampling of four (4) existing groundwater monitoring wells (MW-14R, MW-15R, MW-16R and MW-17R). The frequency thereafter will be determined by NYSDEC. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. The groundwater monitoring program is summarized in the following table and was included in the SMP:

Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Groundwater Monitoring	Semi-annual	Groundwater	NYSDEC STARS-list VOCs using USEPA Method 8260
Soil Cover	Annual	Soil	None
SSDS	Monthly	Vapor/Air	None

It should be noted that the actual monitoring completed varied from that in the SMP. A summary of the work completed is provided below. Section 3.4 discusses deviations from the SMP.

3.1 Groundwater Monitoring

One groundwater sample event was completed during the January 2010 to June 2011 monitoring period. Specifically, on May 11, 2011 four groundwater monitoring wells designated MW-14R, MW-15R, MW-16R, and MW-17R (locations shown on Figure 3) were sampled.

Static water levels (SWLs) were collected during the May 11, 2011 sampling event. SWL measurements were collected with a Heron Dipper-T Water Level Meter. The probe was decontaminated between each monitoring well to prevent cross-contamination. Figure 5 shows the locations of the monitoring wells from which water levels were collected and groundwater contours interpreted from the SWLs. Section 3.4 discussed groundwater flow direction.

Prior to sampling three well volumes were purged. The samples were collected using a designated polyethylene bailer. Groundwater sampling logs that include the in-field parameter measurements collected during the purging of the wells are included in the Groundwater Sampling Forms in Appendix 1.

Mitkem Laboratories in Warwick, Rhode Island analyzed the groundwater samples. Mitkem Laboratories is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. The samples were analyzed for NYSDEC Spill Technology and Remediation Series (STARS) list VOCs using United States Environmental Protection Agency (USEPA) Method 8260B. In addition, all laboratory data from the groundwater monitoring event was reported in

an Analytical Services Protocol (ASP) Category B Deliverables data package and a Data Usability Summary Report (DUSR) was completed to validate the data.

A copy of the laboratory report and the DUSR is included as Appendix B.

A Table summarizing the May 11, 2011 groundwater sampling event as wells as historic groundwater results for the four wells included in the monitoring program are included as Table 1. Also included on Table 1 is a comparison to NYSDEC groundwater standards.

3.2 Sub-Slab Depressurization System Monitoring

The sub-slab depressurization system was monitored during the May 11, 2011 sampling event in order to verify proper operation of the system. There are six fans that operate the SSDS at the locations shown on Figure 4. At each fan location, the following inspections were made:

- the in-line U-tube manometer on the suction side of the piping system was observed to determine a pressure differential that would indicate the fan was operating properly.
- the piping condition was observed to determine if any portion of the piping required repair;
- labeling of the system was intact; and
- descriptions of actions taken to address any concerns of the SSDS (if applicable).

Based on the inspection, the SSDS appeared to be in good working order (e.g. each manometer indicated the SSDS was working, the fan was observed to be working, and the piping appeared in good condition). A copy of the inspection form is included in Appendix A. It should be noted that SSDS Fan #1 and manometer were not visible during the time of the inspection as it was blocked by an appliance. However, the fan could be heard running indicating it was operating.

3.3 Site Wide Inspection

A site wide inspection of the property was conducted on May 11, 2011 to assess the general condition of the site (e.g. commercial use, residential use, etc.) as well as the biocell soil cover and asphalt paved areas located over the remedial excavations. Based on the results of the general site conditions inspection, the site remains utilized for commercial use only, the biocell soil cover appears to be intact (i.e. no erosion observed), and the asphalt paved areas over the remedial excavations remain in good conditions. A copy of the site-wide inspection form including photographs of the site are included in Appendix A.

3.4 Deviations from SMP

Deviations from the SMP were not encountered during the reporting period with the following exceptions.

- Only one groundwater sampling event was conducted.
- The SSDS was inspected by LaBella during the reporting period, rather than the monthly inspections.
- SSDS Fan #1 and manometer was not visible during the time of the May 11, 2011 inspection as it was blocked by an appliance. However, the fan could be heard running indicating it was operating.

4.0 GROUNDWATER FLOW CONTOURS

SWL measurements collected one May 11, 2011 indicate that the surface of the uppermost water-bearing zone is present approximately 4.5 to 7-feet (ft) below the ground surface (bgs). The SWLs collected in during the May 11, 2011 monitoring event was used to calculate groundwater elevations. All groundwater elevations were made relative to a site-specific vertical datum.

Groundwater contours developed from SWL measurements collected on May 11, 2011 as shown on Figure 5 indicate that general groundwater flow at the site is from the south-southeast to the north-northeast. This groundwater flow is generally consistent with results included in the Final Engineering Report completed for the site.

5.0 SUMMARY OF GROUNDWATER MONITORING

One groundwater monitoring event was conducted on May 11, 2011 from four groundwater monitoring wells designated MW-14R, MW-15R, MW-16R, and MW-17R (refer to Figure 3) were sampled. The results of the groundwater monitoring are summarized in Table 1 and are compared to the NYSDEC Part 703 groundwater standards. As indicated in Table 1, only two VOCs (Isopropylbenzene and n-Propylbenzene) in well MW-15R were detected above the NYSDEC Part 703 groundwater standards. The VOC Isopropylbenzene was detected at a concentration of 12 parts per billion (ppb) which is above the NYSDEC Part 703 groundwater standard of 5 ppb and n-Propylbenzene was detected at a concentration of 13 ppb which is above the NYSDEC Part 703 groundwater standard of 5 ppb.

Graphs of VOC concentrations over time are included in Appendix C. As shown, the groundwater impacts appear to be decreasing in well MW-14R which indicated the highest concentration historically. The concentration of VOCs in MW-15R, MW-16R, and MW-17R appear similar (low) to previous sampling events. It should be noted, however, that the February 2007 sampling event noted the highest concentration of VOCs in all wells. This apparent anomaly could be due to laboratory or sampling error or possibly seasonal fluctuation in groundwater concentrations.

6.0 SITE EVALUATION

The annual monitoring work conducted between January 2010 to June 2011 was completed in accordance with the SMP with the exceptions noted in Section 3.4. The groundwater flow direction appears similar to historical data. The analytical results from the May 11, 2011 groundwater sampling event indicate that petroleum related VOCs in groundwater are generally below the NYSDEC groundwater standards except for two VOCs detected in well MW-15R. Historic sampling results suggest that residual concentrations of petroleum related VOCs will not significantly change during future groundwater sampling events.

The remedial program outlined in the SMP has effectively achieved progress toward meeting the remedial objectives for the site. Continued monitoring of the SSDS and the implementation of the SMP should ultimately achieve the remedial objectives for the site. In addition, it is recommended that sampling be conducted in the Fall of 2011 and in February 2012 to evaluate seasonal fluctuations. Depending on the results of these sampling events, it may be recommended to discontinue groundwater sampling.

Areas of non-compliance regarding major elements of the SMP were not documented during this reporting period.

7.0 INSTITUTIONAL AND ENGINNERING CONTROLS CERTIFICATION

The NYSDEC Institutional and Engineering Controls Certification Form is included in Appendix D.

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Table

Table 1
Periodic Review Report
Summary of Detected Volatile Organic Compounds (VOCs) in Post-IRM Groundwater
320 North Goodman Street, Rochester, New York
Results Shown in micrograms per Liter (µg/L) or about parts per billion (ppb)

Well ID	MW-14R					MW-15R					MW-16R				MW-17R					NYSDEC TOGS 1.1.1 and NYS Part 703 Groundwater Standards and Guidance Values
Sample Date	**8/9/2006**	**11/27/2006**	**2/22/2007**	**9/12/2008**	**5/11/2011**	**8/9/2006**	**11/27/2006**	**2/22/2007**	**9/12/2008**	**5/11/2011**	**8/9/2006**	**11/27/2006**	**9/12/2008**	**5/11/2011**	**8/9/2006**	**11/27/2006**	**2/22/2007**	**9/12/2008**	**5/11/2011**	
Benzene	**1.2**	**1.2**	**1.6 J**	0.72	ND<5.0	**2.9**	ND <1.0	**1.6**	**1.6**	ND<5.0	ND <1.0	ND <1.0	0.37 J	ND<5.0	ND <1.0	ND <1.0	**3.1**	0.88	ND<5.0	1
sec-Butylbenzene	ND<5.0	ND<5.0	ND<25	ND<5	ND<5.0	1.3	1.1 J	0.51 J	0.9 J	ND<5.0	ND <5.0	ND <5.0	0.65 J	ND<5.0	ND <5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	5
Ethylbenzene	**35**	**60**	**150**	**10**	ND<5.0	ND <5.0	ND <5.0	1.4 J	ND<5	ND<5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	ND <5.0	ND <5.0	**6.4**	ND<5	ND<5.0	5
Isopropylbenzene	**32**	**27**	**42**	**9.4**	2.2 J	**9.1**	**7.4**	3.9 J	**6.2**	**12**	ND <5.0	ND <5.0	**12**	ND<5.0	2.2	1.6 J	**5.3**	ND<5	1.0 J	5
Naphthalene	ND<5.0	ND<5.0	ND<25	ND<5	ND<5.0	ND <5.0	ND <5.0	ND <5.0	0.51 J	1.2 J	1.1	ND <5.0	0.89 J	ND<5.0	ND <5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	10
n-Propylbenzene	4.8	**5.3**	**9.3 J**	1.2 J	ND<5.0	**10**	**7.5**	2.7 J	**5.9**	**13**	ND <5.0	ND <5.0	0.47 J	ND<5.0	0.89	ND <5.0	1.1 J	ND<5	ND<5.0	5
Toluene	**450**	**300 D**	**640**	ND<5	ND<5.0	ND <5.0	ND <5.0	**86**	1.2 J	ND<5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	ND <5.0	ND <5.0	**160 D**	ND<5	ND<5.0	5
1,2,4-Trimethylbenzene	2.9	2.9 J	**6.4 J**	1.2 J	ND<5.0	3.1	1.6 J	1.3 J	ND<5	ND<5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	ND <5.0	ND <5.0	1.4 J	ND<5	ND<5.0	5
1,3,5-Trimethylbenzene	ND<5.0	1.0 J	3.0 J	0.38 J	ND<5.0	1.8	0.99 J	0.74 J	ND<5	ND<5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	ND <5.0	ND <5.0	0.50 J	ND<5	ND<5.0	5
m+p-Xylene	**180**	**44**	**120**	**66**	ND<5.0	2.1	ND <5.0	**26**	0.46 J	ND<5.0	ND <5.0	ND <5.0	0.59 J	ND<5.0	ND <5.0	ND <5.0	**110**	ND<5	ND<5.0	5
o-Xylene	**34**	**260**	**650**	ND<5	ND<5.0	ND <5.0	ND <5.0	**1.7 J**	ND<5	ND<5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	ND <5.0	ND <5.0	**8.2**	ND<5	ND<5.0	5
MTBE	ND<5.0	ND<5.0	ND<25	ND<5	ND<5.0	ND <5.0	ND <5.0	0.39 J	ND<5	ND<5.0	2.1	1.9 J	ND<5	ND<5.0	ND <5.0	ND <5.0	ND <5.0	ND<5	ND<5.0	10
Total VOCs	739.9	701.4	1622.3	88.9	2.2 J	30.3	18.59	125.9	16.77	26.2 J	3.2	1.9	14.97	0	3.09	1.6	296	. 0.88	1.0 J	NS

Notes:
NYSDEC STARS-list VOC analysis by United States Environmental Protection Agency (USEPA) Method 8021
Bold Type denotes a reported concentration that exceeds its respective NYSDEC TOGS 1.1.1 and NYS Part 703 Groundwater Standard or Guidance Value.
"ND <150" denotes that the constituent was Not Detected above the laboratory method detection limit shown.
"NS" indicates "Not Specified"
J = indicates an estimated value that is below the method detection limit.
D = indicates dilution of the sample or extract was performed

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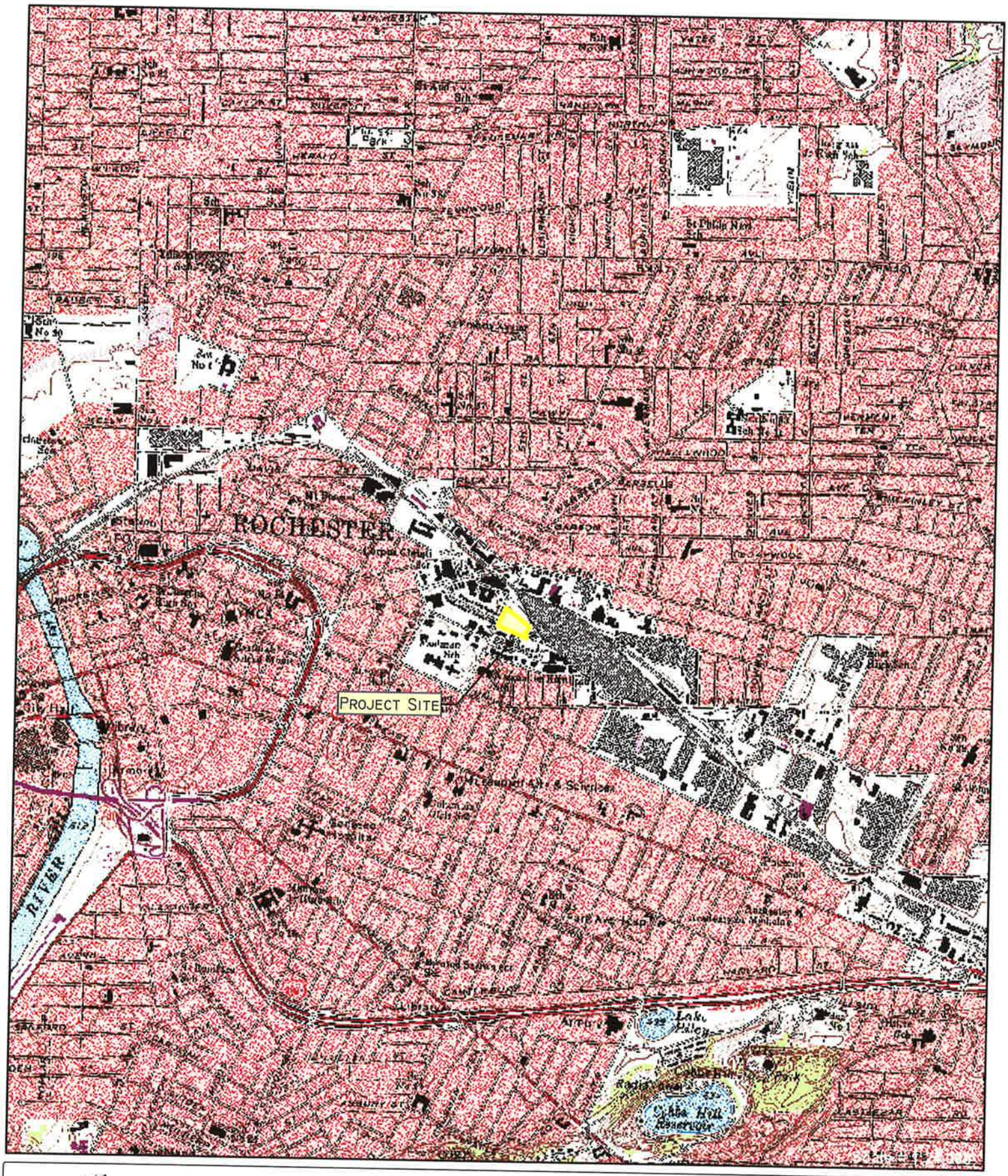
Figures



N
W E
S

1 inch = 2,000 feet

FIGURE 1

Site Location Map
NYSDEC BCP Site #C828115
Rochester Drug Cooperative Building
320 North Goodman Street
Rochester, New York

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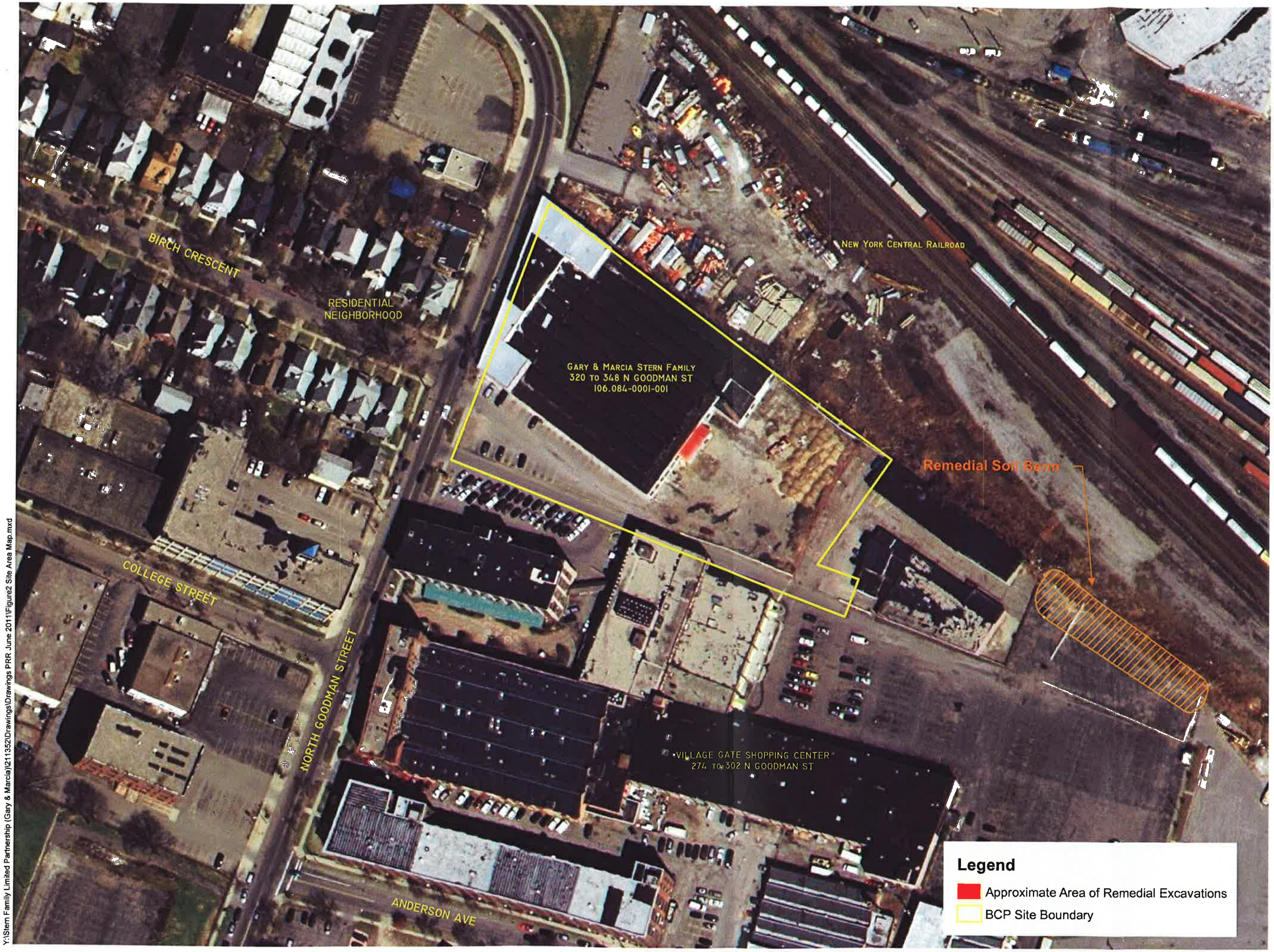
Y:\Stern Family Limited Partnership (Gary & Marcia)\211352\Drawings\Drawings PRR June 2011\Figure1 Site Location.mxd



Y:\Stern Family Limited Partnership (Gary & Marcia)\211352\Drawings\Drawings PRR June 2011\Figure2 Site Area Map.mxd

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Periodic Review Report
NYSDEC BCP Sitel #C828115
Rochester Drug Cooperative Building
Rochester, New York

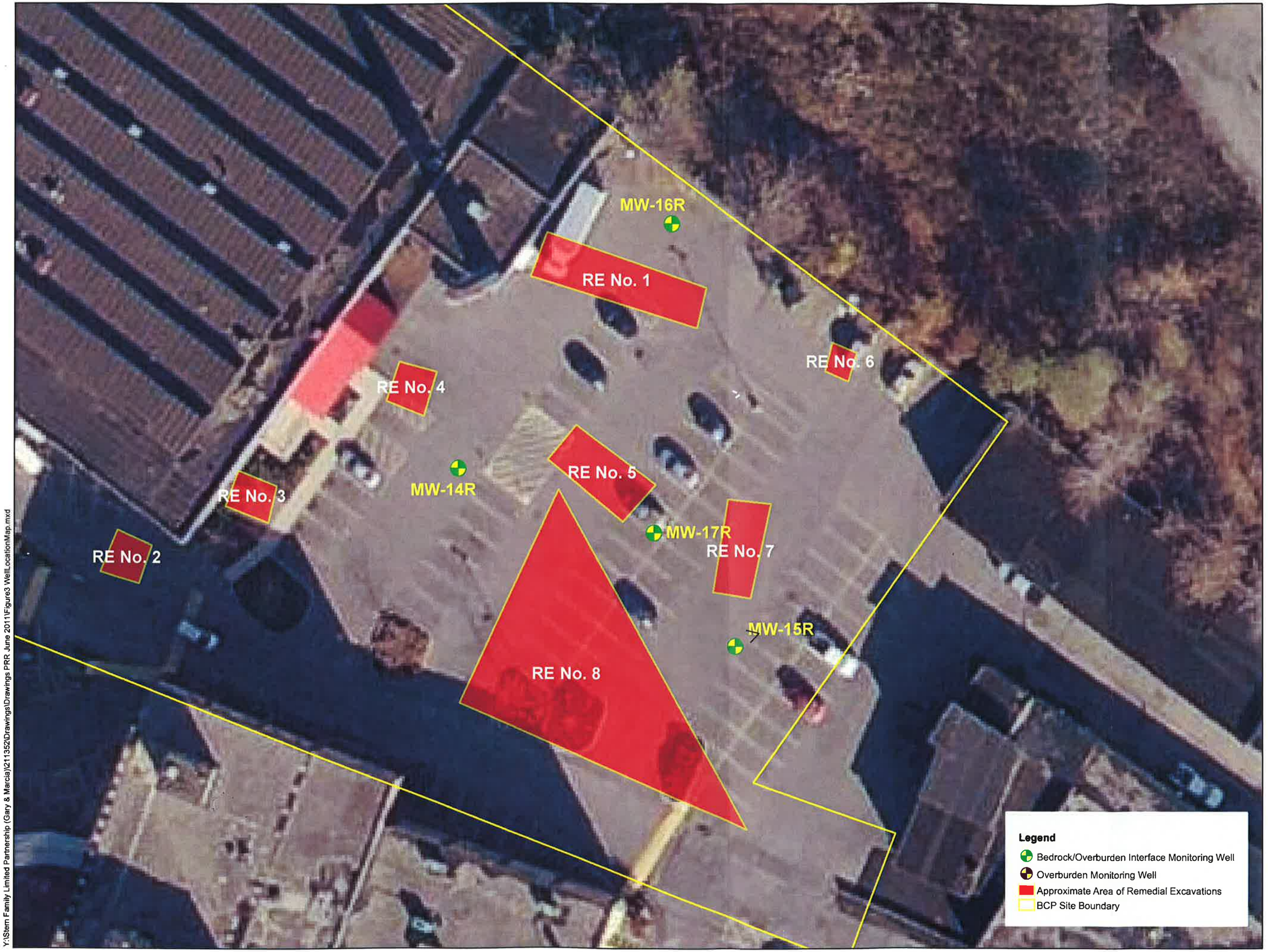
Client:
The Gary and Marcia Stern Family Limited Partnership

Title:
Site Area Map

10 0 20
1 inch = 30 feet

211352

FIGURE 2



Y:\Stern Family Limited Partnership (Gary & Marcia)\211352\Drawings\Drawings PRR June 2011\Figure3 WellLocationMap.mxd

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Periodic Review Report
NYSDEC BCP Sitel #C828115
Rochester Drug Cooperative Building
Rochester, New York

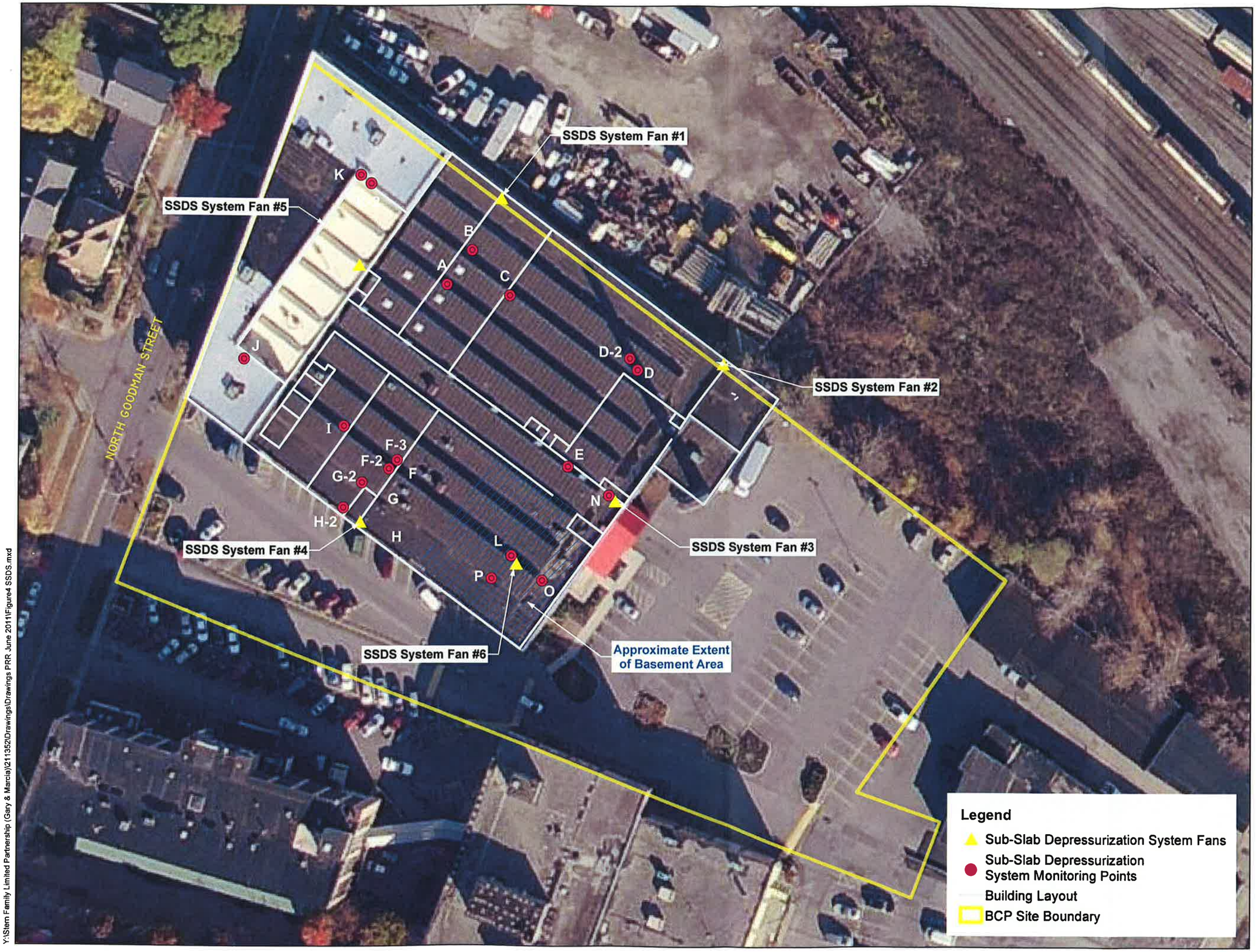
Client:
The Gary and Marcia Stern Family Limited Partnership

Title:
Well Location Map

10 0 20
1 inch = 30 feet

211352

FIGURE 3



Y:\Stern Family Limited Partnership (Gary & Marcia)\211352\Drawings\Drawings PRR June 2011\Figure4 SSDS.mxd

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Periodic Review Report
NYSDEC BCP Sitel #C828115
Rochester Drug Cooperative Building
Rochester, New York

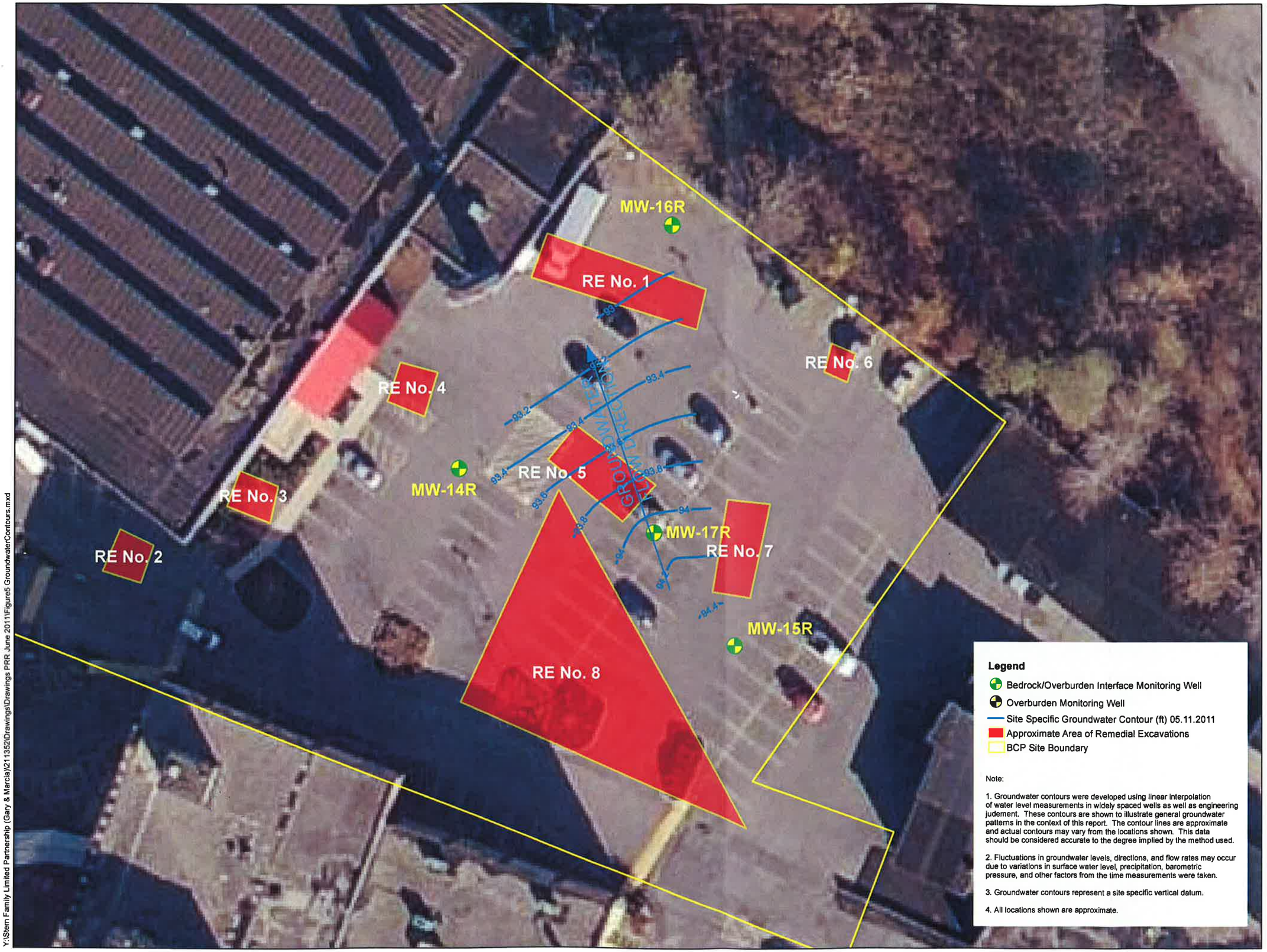
Client:
The Gary and Marcia Stern Family Limited Partnership

Title:
Site Area Map

10 0 40
1 inch = 51 feet

211352

FIGURE 4



Y:\Stern Family Limited Partnership (Gary & Marcia)\211352\Drawings\Drawings PRR June 2011\Figure5 GroundwaterContours.mxd

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Periodic Review Report
NYSDEC BCP Sitel #C828115
Rochester Drug Cooperative Building
Rochester, New York

Client:
The Gary and Marcia Stern Family Limited Partnership

Title:
May 11, 2011 Groundwater Contours

10 0 20
1 inch = 30 feet

211352

FIGURE 5

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Appendix A

Field Logs

Groundwater Sampling Logs

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-14R

Project Name: 320 North Goodman Street
Project No.: 211352
Location: 320 North Goodman Street
Development By: Emily Gillen
Date: May 11, 2011
Weather: sunny, ~65 degrees F

PURGE VOLUME CALCULATION

Well Diameter: 2.0 -Inch
Static Water Level: 5.85 -Feet
Depth of Well: 18.50 -Feet
Single Well Volume: 2.00 -Gallons

PURGE & SAMPLING METHOD

[x] Bailer - Type: PVC - Dedicated
[ ] Pump - Type
Sampling Device: Dedicated Bailer
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	ORP (mV)		Comments
11:45	2	4.23	15.2	3.19	214		Color = Dark brown/orange
11:49	4	4.26	14.1	2.62	214		LNAPL or DNAPL observed = No
11:53	6	4.30	15.0	2.53	214		Odor: YES (slight sulfurous)
							Sheen: NO

Total 6.00 Gallons Purged Purge Start Time: 11:42 Purge End Time: 11:55

WELL SAMPLING

Sample I.D. MW-14R
Sample Time: 12:00 PM
No. of Containers: 2
Sample Preservation: HCl

Sampled For:
[x] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total /~~Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-15R

Project Name: 320 North Goodman Street
Project No.: 211352
Location: 320 North Goodman Street
Sampled By: Emily Gillen
Date: May 11, 2011
Weather: sunny, ~60 degrees F

PURGE VOLUME CALCULATION

Well Diameter: 2.0 -Inch
Static Water Level: 4.45 -Feet
Depth of Well: 18.30 -Feet
Single Well Volume: 2.30 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type:
[ ] Pump - Type
Sampling Device:
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	OPR (mV)		Comments
10:27	2	4.24	12.2	1.62	214		Color = Orange
10:31	4	4.20	11.6	1.68	214		LNAPL or DNAPL observed = No
10:35	6	4.19	12.5	1.69	213		Odor?: YES (sulfurous)
10:38	7	4.20	12.1	1.71	213		Sheen?: NO

Total 7.00 Gallons Purged Purge Start Time: 10:25 Purge End Time: 10:40

WELL SAMPLING

Sample I.D. MW-15R
Sample Time: 10:45
No. of Containers: 2
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total /~~Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

GROUNDWATER SAMPLING FORM

WELL I.D. MW-16R

Project Name: 320 North Goodman Street
Project No.: 211352
Location: 320 North Goodman Street
Sampled By: Emily Gillen
Date: May 11, 2011
Weather: sunny, ~60 degrees F

PURGE VOLUME CALCULATION

Well Diameter: 2.0 -Inch
Static Water Level: 7.00 -Feet
Depth of Well: 17.60 -Feet
Single Well Volume: 1.70 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type:
[ ] Pump - Type
Sampling Device:
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	OPR (mV)		Comments
9:30	1.5	4.24	11.9	1.38	212		Color = Orange
9:34	3.5	4.24	11.4	1.54	211		LNAPL or DNAPL observed = No
9:38	5.0	4.25	11.4	1.73	212		Odor?: NO
							Sheen?: NO

Total 5.00 Gallons Purged Purge Start Time: 9:26 Purge End Time: 9:40

WELL SAMPLING

Sample I.D. MW-16R
Sample Time: 9:45
No. of Containers: 2
Sample Preservation: HCl

Sampled For:
[x] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

MS/MSD collected at MW-16R at 9:50 and 9:55 respectively

Well Volume (1" well) = 0.0408-gal/ft.
Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.

LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NY
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GROUNDWATER SAMPLING FORM

WELL I.D. MW-17R

Project Name: 320 North Goodman Street
Project No.: 211352
Location: 320 North Goodman Street
Sampled By: Emily Gillen
Date: May 11, 2011
Weather: sunny, ~50 degrees F

PURGE VOLUME CALCULATION

Well Diameter: 2.0 -Inch
Static Water Level: 4.62 -Feet
Depth of Well: 19.17 -Feet
Single Well Volume: 2.40 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type:
[ ] Pump - Type
Sampling Device:
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	OPR (mV)		Comments
8:20	2	4.23	12.7	2.42	236		Color = Orange
8:25	4	4.26	11.7	2.48	207		LNAPL or DNAPL observed = No
8:31	6	4.27	11.2	2.39	206		Odor?: NO
8:37	8	4.27	11.2	2.43	207		Sheen?: NO

Total 5.00 Gallons Purged Purge Start Time: 8:10 Purge End Time: 8:40

WELL SAMPLING

Sample I.D. MW-17R
Sample Time: 8:45
No. of Containers: 2
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

DUP-1 collected at MW-17R at 8:50

Well Volume (1" well) = 0.0408-gal/ft.
Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.

Field Inspection Reports

Sub-Slab Depressurization System (SSDS) Inspection Form
Site Management Plan
320 North Goodman Street, City of Rochester, New York
NYSDEC Brownfield Cleanup Program Site No. C828115

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

Project Name: NYSDEC BCP Site No. C828115
Location: 320 North Goodman Street, Rochester, New York
Project No.: 208613
Inspected By: Emily Gilken
Date of Inspection: 5/11/2011
Weather Conditions: Sunny, ~55-65 °F

SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO)	PIPING IN GOOD CONDITION (YES/NO)	MANOMETER READING (INCHES OF WATER COLUMN)	LABELLING OF SYSTEM INTACT (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
FAN #1 Northern Wall, Near Center of Building	Yes	Yes	Could not see (manometer unknown blocked by appliances)		None
FAN #2 Near Northeastern Corner of Building	Yes	Yes	2.7	Yes	None
FAN #3 Eastern Wall	Yes	Yes	2.5	Yes	None
FAN #4 Southern Wall	Yes	Yes	1.4	Yes	None
FAN #5 Western Portion of Building, In Bathroom Utility Closet	Yes	Yes	3.4	Yes	None
FAN #6 Partial Basement, Southeastern Portion of Building	Yes	Yes	3.3	Yes	None

LABELLA Associates, P.C.

300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

Project Name: NYSDEC BCP Site No. C828115
Location: 320 North Goodman Street, City of Rochester, New York
Project No.: 208613
Inspected By: Emily Gillen
Date of Inspection: 5/11/2011
Weather Conditions: sunny, ~55-65°F

INSPECTION FINDINGS

SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO)	PIPING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Fan #1 - #6	Yes	Yes	None
BIO-CELL SOIL COVER	**BIOCELL SOIL COVER IN GOOD CONDITION (YES/NO)**		**COMMENTS AND/OR ACTIONS TAKEN**
Biocell inspected on 6/13/11. All soil cover appear to be intact	No sign of erosion	Biocell Berm in Good Condition	None
GENERAL SITE CONDITIONS	**CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)**	**SITE RECORDS UP TO DATE (YES/NO)**	**COMMENTS AND/OR ACTIONS TAKEN**
Good	Commercial / Industrial	Yes	None

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix B

Laboratory and Data Usability Summary Reports

Report Date:
25-May-11 15:14

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. FEATURING HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

LaBella Associates
300 State Street, Suite 201
Rochester, NY 14614

Work Order: K0805
Project : LaBella Stand By
Project #:

Attn: Dennis Porter

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
K0805-01	MW-14R	Aqueous	11-May-11 12:00	12-May-11 08:50
K0805-02	MW-15R	Aqueous	11-May-11 10:45	12-May-11 08:50
K0805-03	MW-16R	Aqueous	11-May-11 09:45	12-May-11 08:50
K0805-04	MW17R	Aqueous	11-May-11 08:45	12-May-11 08:50
K0805-05	DUP-1	Aqueous	11-May-11 08:50	12-May-11 08:50
K0805-06	TRIPBLANK	Aqueous	11-May-11 00:00	12-May-11 08:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Mitkem Laboratories.

All applicable NELAC or USEPA CLP requirments have been meet.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.mitkem.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030

Authorized by:

Yihai Ding
Laboratory Director

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : LaBella Stand By

SDG : K0805

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-14R	K0805-01	SW8260_W				
MW-15R	K0805-02	SW8260_W				
MW-16R	K0805-03	SW8260_W				
MW17R	K0805-04	SW8260_W				
DUP-1	K0805-05	SW8260_W				
TRIPBLANK	K0805-06	SW8260_W				

05/25/2011 15:15

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : LaBella Stand By **SDG :** K0805

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
K0805-01A	AQ	5/11/2011	5/12/2011	NA	5/13/2011
K0805-02A	AQ	5/11/2011	5/12/2011	NA	5/13/2011
K0805-03A	AQ	5/11/2011	5/12/2011	NA	5/13/2011
K0805-03AMS	AQ	5/11/2011	5/12/2011	NA	5/16/2011
K0805-03AMSD	AQ	5/11/2011	5/12/2011	NA	5/16/2011
K0805-04A	AQ	5/11/2011	5/12/2011	NA	5/13/2011
K0805-05A	AQ	5/11/2011	5/12/2011	NA	5/13/2011
K0805-06A	AQ	5/11/2011	5/12/2011	NA	5/16/2011

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : LaBella Stand By **SDG :** K0805

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
K0805-01A	AQ	SW8260_W	NA	LOW	1
K0805-02A	AQ	SW8260_W	NA	LOW	1
K0805-03A	AQ	SW8260_W	NA	LOW	1
K0805-03AMS	AQ	SW8260_W	NA	LOW	1
K0805-03AMSD	AQ	SW8260_W	NA	LOW	1
K0805-04A	AQ	SW8260_W	NA	LOW	1
K0805-05A	AQ	SW8260_W	NA	LOW	1
K0805-06A	AQ	SW8260_W	NA	LOW	1

WorkOrder: K0805

05/25/2011 15:14

Mitkem Laboratories

Client ID: LABELLA
Project: LaBella Stand By
WO Name: LaBella Stand By
Location: LABELLA_STANDBY_CONTRACT,

Case:
SDG:
PO: 211352

HC Due: 05/26/11
Fax Due: 05/23/11
Fax Report: ☑

Report Level: ASP-B
Special Program:
EDD: ENVIROINSITE_1
EQUIIS_4_NYSDEC

Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0805-01A	MW-14R	05/11/2011 12:00	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,				Y	VOA
K0805-02A	MW-15R	05/11/2011 10:45	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,				Y	VOA
K0805-03A	MW-16R	05/11/2011 09:45	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,			Y	Y	VOA
K0805-04A	MW17R	05/11/2011 08:45	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,				Y	VOA
K0805-05A	DUP-1	05/11/2011 08:50	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,				Y	VOA
K0805-06A	TRIPBLANK	05/11/2011 00:00	05/12/2011	Aqueous	SW8260_W	/ 8260_STARS,				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

* Volatiles *

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : LaBella Associates

Project: LaBella Stand By

Laboratory Workorder / SDG #: K0805

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on sample MW-16R (K0805-03AMS)

and MW-16R (K0805-03AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the QC limits.

E. **Internal Standards:**

Internal standard peak areas were within the QC limits.

F. **Dilutions:**

No sample in this SDG required analysis at dilution.

G. **Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

Date: 5/25/2011

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3764.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	2.2	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-15R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3765.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	12	
103-65-1	n-Propylbenzene	13	
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	2.5	J
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	1.2	J

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3766.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW17R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3767.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	1.0	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-1

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3768.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	1.1	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1166.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59163

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3761.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1165.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59163

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3757.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	45	
71-43-2	Benzene	57	
108-88-3	Toluene	53	
100-41-4	Ethylbenzene	52	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	51	
1330-20-7	Xylene (Total)	160	
98-82-8	Isopropylbenzene	52	
103-65-1	n-Propylbenzene	55	
108-67-8	1,3,5-Trimethylbenzene	54	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	54	
135-98-8	sec-Butylbenzene	56	
99-87-6	4-Isopropyltoluene	54	
104-51-8	n-Butylbenzene	59	
91-20-3	Naphthalene	51	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1162.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	58	
71-43-2	Benzene	58	
108-88-3	Toluene	57	
100-41-4	Ethylbenzene	52	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
98-82-8	Isopropylbenzene	51	
103-65-1	n-Propylbenzene	50	
108-67-8	1,3,5-Trimethylbenzene	52	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	51	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	49	
104-51-8	n-Butylbenzene	48	
91-20-3	Naphthalene	55	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-59163

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3758.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	46	
71-43-2	Benzene	56	
108-88-3	Toluene	51	
100-41-4	Ethylbenzene	49	
1330-20-7	m,p-Xylene	99	
95-47-6	o-Xylene	49	
1330-20-7	Xylene (Total)	150	
98-82-8	Isopropylbenzene	48	
103-65-1	n-Propylbenzene	51	
108-67-8	1,3,5-Trimethylbenzene	50	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	51	
99-87-6	4-Isopropyltoluene	49	
104-51-8	n-Butylbenzene	54	
91-20-3	Naphthalene	50	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	52	
71-43-2	Benzene	48	
108-88-3	Toluene	48	
100-41-4	Ethylbenzene	45	
1330-20-7	m,p-Xylene	91	
95-47-6	o-Xylene	45	
1330-20-7	Xylene (Total)	140	
98-82-8	Isopropylbenzene	47	
103-65-1	n-Propylbenzene	47	
108-67-8	1,3,5-Trimethylbenzene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	47	
104-51-8	n-Butylbenzene	47	
91-20-3	Naphthalene	53	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16RMS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-03AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1182.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	58	
71-43-2	Benzene	53	
108-88-3	Toluene	53	
100-41-4	Ethylbenzene	50	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
98-82-8	Isopropylbenzene	48	
103-65-1	n-Propylbenzene	46	
108-67-8	1,3,5-Trimethylbenzene	48	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	44	
104-51-8	n-Butylbenzene	44	
91-20-3	Naphthalene	47	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16RMSD

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-03AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1183.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	56	
71-43-2	Benzene	50	
108-88-3	Toluene	50	
100-41-4	Ethylbenzene	45	
1330-20-7	m,p-Xylene	90	
95-47-6	o-Xylene	45	
1330-20-7	Xylene (Total)	130	
98-82-8	Isopropylbenzene	45	
103-65-1	n-Propylbenzene	43	
108-67-8	1,3,5-Trimethylbenzene	44	
98-06-6	tert-Butylbenzene	43	
95-63-6	1,2,4-Trimethylbenzene	44	
135-98-8	sec-Butylbenzene	42	
99-87-6	4-Isopropyltoluene	41	
104-51-8	n-Butylbenzene	40	
91-20-3	Naphthalene	48	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-59163	93	95	104	101				0
02	LCSD-59163	96	101	104	100				0
03	MB-59163	97	109	104	97				0
04	MW-14R	99	107	104	98				0
05	MW-15R	100	110	107	100				0
06	MW-16R	99	109	104	99				0
07	MW17R	97	102	105	97				0
08	DUP-1	94	101	105	95				0
09	LCS-59186	105	101	98	99				0
10	LCSD-59186	103	104	97	100				0
11	MB-59186	104	105	99	93				0
12	TRIPBLANK	102	102	102	95				0
13	MW-16RMS	103	101	98	102				0
14	MW-16RMSD	105	102	97	99				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix Spike - EPA Sample No.: MW-16R Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
Methyl tert-butyl ether	50.0000	0.0000	57.6566	115		65-125
Benzene	50.0000	0.0000	52.7105	105		80-120
Toluene	50.0000	0.0000	52.5355	105		75-120
Ethylbenzene	50.0000	0.0000	49.6989	99		75-125
m,p-Xylene	100.0000	0.0000	99.5403	100		75-130
o-Xylene	50.0000	0.0000	49.8260	100		80-120
Xylene (Total)	150.0000	0.0000	149.3663	100		81-121
Isopropylbenzene	50.0000	0.0000	48.3562	97		75-125
n-Propylbenzene	50.0000	0.0000	46.4678	93		70-130
1,3,5-Trimethylbenzene	50.0000	0.0000	48.1878	96		75-130
tert-Butylbenzene	50.0000	0.0000	46.8538	94		70-130
1,2,4-Trimethylbenzene	50.0000	0.0000	48.3551	97		75-130
sec-Butylbenzene	50.0000	0.0000	45.1341	90		70-125
4-Isopropyltoluene	50.0000	0.0000	44.3915	89		75-130
n-Butylbenzene	50.0000	0.0000	43.8866	88		70-135
Naphthalene	50.0000	0.0000	46.7932	94		55-140

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Methyl tert-butyl ether	50.0000	55.7781	112		3		0-40	65-125
Benzene	50.0000	49.5127	99		6		0-40	80-120
Toluene	50.0000	50.0250	100		5		0-40	75-120
Ethylbenzene	50.0000	45.0247	90		10		0-40	75-125
m,p-Xylene	100.0000	89.7971	90		10		0-40	75-130
o-Xylene	50.0000	44.9268	90		10		0-40	80-120
Xylene (Total)	150.0000	134.7240	90		10		0-40	81-121
Isopropylbenzene	50.0000	44.5703	89		8		0-40	75-125
n-Propylbenzene	50.0000	43.2029	86		7		0-40	70-130
1,3,5-Trimethylbenzene	50.0000	43.6373	87		10		0-40	75-130
tert-Butylbenzene	50.0000	43.0699	86		8		0-40	70-130
1,2,4-Trimethylbenzene	50.0000	44.2453	88		9		0-40	75-130
sec-Butylbenzene	50.0000	41.7284	83		8		0-40	70-125
4-Isopropyltoluene	50.0000	40.8685	82		8		0-40	75-130
n-Butylbenzene	50.0000	39.5099	79		10		0-40	70-135
Naphthalene	50.0000	48.2963	97		3		0-40	55-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 32 outside limits

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix Spike - EPA Sample No.: MW-16R Level: (TRACE or LOW) LOW

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab Sample ID: LCS-59163 LCS Lot No.:

Date Extracted: 05/13/2011 Date Analyzed (1): 05/13/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Methyl tert-butyl ether	50.0000	0.0000	44.6234	89		65 - 125
Benzene	50.0000	0.0000	56.8270	114		80 - 120
Toluene	50.0000	0.0000	52.6817	105		75 - 120
Ethylbenzene	50.0000	0.0000	51.9239	104		75 - 125
m,p-Xylene	100.0000	0.0000	104.9887	105		75 - 130
o-Xylene	50.0000	0.0000	51.4770	103		80 - 120
Xylene (Total)	150.0000	0.0000	156.4658	104		81 - 121
Isopropylbenzene	50.0000	0.0000	51.7395	103		75 - 125
n-Propylbenzene	50.0000	0.0000	55.0510	110		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	53.9216	108		75 - 130
tert-Butylbenzene	50.0000	0.0000	52.1115	104		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	54.3958	109		75 - 130
sec-Butylbenzene	50.0000	0.0000	55.5141	111		70 - 125
4-Isopropyltoluene	50.0000	0.0000	53.5030	107		75 - 130
n-Butylbenzene	50.0000	0.0000	59.4304	119		70 - 135
Naphthalene	50.0000	0.0000	50.5407	101		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab Sample ID: LCS-59186 LCS Lot No.:

Date Extracted: 05/16/2011 Date Analyzed (1): 05/16/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Methyl tert-butyl ether	50.0000	0.0000	58.3430	117		65 - 125
Benzene	50.0000	0.0000	57.8693	116		80 - 120
Toluene	50.0000	0.0000	56.7426	113		75 - 120
Ethylbenzene	50.0000	0.0000	51.9787	104		75 - 125
m,p-Xylene	100.0000	0.0000	104.0885	104		75 - 130
o-Xylene	50.0000	0.0000	51.5405	103		80 - 120
Xylene (Total)	150.0000	0.0000	155.6290	104		81 - 121
Isopropylbenzene	50.0000	0.0000	50.8736	102		75 - 125
n-Propylbenzene	50.0000	0.0000	50.2762	101		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	51.8151	104		75 - 130
tert-Butylbenzene	50.0000	0.0000	49.3405	99		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	51.2000	102		75 - 130
sec-Butylbenzene	50.0000	0.0000	48.2394	96		70 - 125
4-Isopropyltoluene	50.0000	0.0000	48.6927	97		75 - 130
n-Butylbenzene	50.0000	0.0000	47.9786	96		70 - 135
Naphthalene	50.0000	0.0000	54.9930	110		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab Sample ID: LCSD-59163 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Methyl tert-butyl ether	50.0000	45.8704	92		3		40	65 - 125
Benzene	50.0000	55.5268	111		3		40	80 - 120
Toluene	50.0000	50.7444	101		4		40	75 - 120
Ethylbenzene	50.0000	48.6884	97		7		40	75 - 125
m,p-Xylene	100.0000	98.5183	99		6		40	75 - 130
o-Xylene	50.0000	48.8370	98		5		40	80 - 120
Xylene (Total)	150.0000	147.3553	98		6		40	81 - 121
Isopropylbenzene	50.0000	47.6180	95		8		40	75 - 125
n-Propylbenzene	50.0000	51.0083	102		8		40	70 - 130
1,3,5-Trimethylbenzene	50.0000	50.3355	101		7		40	75 - 130
tert-Butylbenzene	50.0000	48.2650	97		7		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	51.9495	104		5		40	75 - 130
sec-Butylbenzene	50.0000	50.7046	101		9		40	70 - 125
4-Isopropyltoluene	50.0000	48.7547	98		9		40	75 - 130
n-Butylbenzene	50.0000	53.7983	108		10		40	70 - 135
Naphthalene	50.0000	49.8839	100		1		40	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab Sample ID: LCSD-59186 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Methyl tert-butyl ether	50.0000	51.5132	103		13		40	65 - 125
Benzene	50.0000	47.7294	95		20		40	80 - 120
Toluene	50.0000	48.1676	96		16		40	75 - 120
Ethylbenzene	50.0000	45.0407	90		14		40	75 - 125
m,p-Xylene	100.0000	90.8834	91		13		40	75 - 130
o-Xylene	50.0000	45.1579	90		13		40	80 - 120
Xylene (Total)	150.0000	136.0413	91		13		40	81 - 121
Isopropylbenzene	50.0000	46.8851	94		8		40	75 - 125
n-Propylbenzene	50.0000	46.8277	94		7		40	70 - 130
1,3,5-Trimethylbenzene	50.0000	47.2382	94		10		40	75 - 130
tert-Butylbenzene	50.0000	47.5828	95		4		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	47.7115	95		7		40	75 - 130
sec-Butylbenzene	50.0000	45.4704	91		5		40	70 - 125
4-Isopropyltoluene	50.0000	46.5377	93		4		40	75 - 130
n-Butylbenzene	50.0000	46.5593	93		3		40	70 - 135
Naphthalene	50.0000	53.0435	106		4		40	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-59186

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab File ID: V1M1165.D Lab Sample ID: MB-59186

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/16/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:23

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-59186	LCS-59186	V1M1162.D	10:04
02	LCSD-59186	LCSD-59186	V1M1163.D	10:30
03	TRIPBLANK	K0805-06A	V1M1166.D	11:48
04	MW-16RMS	K0805-03AMS	V1M1182.D	18:48
05	MW-16RMSD	K0805-03AMSD	V1M1183.D	19:13

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-59163

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Lab File ID: V8A3761.D Lab Sample ID: MB-59163

Instrument ID: V10

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/13/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:59

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-59163	LCS-59163	V8A3757.D	11:26
02	LCSD-59163	LCSD-59163	V8A3758.D	11:49
03	MW-14R	K0805-01A	V8A3764.D	14:09
04	MW-15R	K0805-02A	V8A3765.D	14:32
05	MW-16R	K0805-03A	V8A3766.D	14:56
06	MW17R	K0805-04A	V8A3767.D	15:19
07	DUP-1	K0805-05A	V8A3768.D	15:42

COMMENTS:

som11.05.18.A

SW846

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####): VSTD0501T Date Analyzed: 05/16/2011

Lab File ID (Standard): V1M1161.D Time Analyzed: 9:22

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	926804		6.45		659061		10.144		305951		12.97	
	UPPER LIMIT	1853608		6.95		1318122		10.644		611902		13.47	
	LOWER LIMIT	463402		5.95		329531		9.644		152976		12.47	
	SAMPLE NO.												
01	LCS-59186	936763		6.455		693687		10.139		331906		12.966	
02	LCSD-59186	900947		6.451		680538		10.125		321985		12.961	
03	MB-59186	862626		6.465		639424		10.139		273622		12.966	
04	TRIPBLANK	863223		6.465		618200		10.139		266793		12.966	
05	MW-16RMS	833004		6.431		613341		10.124		302860		12.961	
06	MW-16RMSD	803109		6.450		608871		10.134		295459		12.961	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####): VSTD050100 Date Analyzed: 05/13/2011

Lab File ID (Standard): V8A3755.D Time Analyzed: 10:17

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	636846		5.381		469175		8.377		221212		10.86	
	UPPER LIMIT	1273692		5.881		938350		8.877		442424		11.36	
	LOWER LIMIT	318423		4.881		234588		7.877		110606		10.36	
	SAMPLE NO.												
01	LCS-59163	701350		5.381		507212		8.377		242860		10.860	
02	LCSD-59163	596159		5.384		430770		8.377		204918		10.860	
03	MB-59163	570443		5.384		405895		8.381		166039		10.863	
04	MW-14R	597129		5.381		428263		8.381		178465		10.863	
05	MW-15R	485031		5.384		364561		8.377		157537		10.860	
06	MW-16R	566639		5.384		406849		8.381		169841		10.863	
07	MW17R	642910		5.384		461277		8.377		189914		10.863	
08	DUP-1	690528		5.381		486357		8.378		196286		10.860	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Data Usability Summary Report (DUSR)

320 N. Goodman St.
Labella Project #211352

Mitkem Laboratories, Warwick, RI
Sample Delivery Group #K0805
June 7, 2011

Prepared by:
Ethan Lee
LaBella Associates, P.C.
300 State St
Rochester, NY 14614

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540/R-99/008) and/or USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-04-004).
- USEPA National Functional Guidelines for Inorganic Data Review (EPA 540/R-04-004).

And method protocol criteria were applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996.

This DUSR pertains to the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis Performed
				VOC[1]
MW-14R	K0805-01	AQ	5/11/11	X
MW-15R	K0805-02	AQ	5/11/11	X
MW-16R	K0805-03	AQ	5/11/11	X
MW-17R	K0805-04	AQ	5/11/11	X
DUP-1	K0805-05	AQ	5/11/11	X
TRIPBLANK	K0805-06	AQ	5/11/11	X

(1) VOC analyses were performed using USEPA Method SW846 8260B.

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed:

- Sample Data Reporting Format
- Preservation and Holding Time Compliance
- GC/MS Instrument Performance Check
- Initial Calibration Verification (ICV)
- Continuing Calibration Verification (CCV)
- Blank Sample Analysis
- System Monitoring/Surrogate Compound Recoveries
- Laboratory Control Sample (LCS) Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- Internal Standards
- Target Compound Identification
- Compound Quantitation
- Data Qualifiers
- Summary

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Preservation and Holding Time Compliance

Maximum allowable holding times for each parameter were measured from the time of sample collection to the time of sample preparation or analysis for each project sample. All project samples were found to be properly preserved or analyzed within the USEPA recommended maximum holding time, without exception. No qualification of the data is recommended.

Gas Chromatography/Mass Spectrometry (GC/MS) Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Verification (ICV)

Initial calibration checks for the instruments used in the analysis of project samples fell within the method specific criteria without exception. No qualification of the data is recommended.

Continuing Calibration Verification (CCV)

Continuing calibration checks for the instruments used in the analysis of project samples fell within the method specific criteria without exception. No qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for the common laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane), or 5 times (5X) the amount for other target compounds.

Target compounds were not identified in associated blank samples at a concentration above the MDL for organic parameter analyses without exception. No qualification of the data is recommended.

System Monitoring/Surrogate Compound Recoveries

System monitoring/surrogate compound recoveries were within the laboratory specific criteria for the analysis of the project samples without exception. No qualification of the data is recommended.

Laboratory Control Sample (LCS) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

LCS and MS/MSD recoveries were within the method specific criteria without exception. No qualification of the data is recommended.

Internal Standards (IS)

The calculated response of each IS compound fell within the QA/QC criteria without exception. No qualification of the data is recommended.

Compound Quantitation

Compound quantitation is performed to ensure that reported quantitation results are accurate. No qualification of the data is recommended.

Data Qualifiers

Data qualifiers were assigned by the laboratory to the reported results to identify target analytes detected below the reporting limit (RL) but above the method detection limit (MDL), and/or when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with USEPA guidance. The "J" qualifier, which indicates an estimated value because the result was between the RL and MDL, was carried forward.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3764.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	2.2	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

EL
6/8/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-15R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3765.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	12	
103-65-1	n-Propylbenzene	13	
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	2.5	J
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	1.2	J

EL
6/8/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3766.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

EL
6/8/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW17R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3767.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	1.0	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

EL
6/8/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-1

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3768.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/13/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	1.1	J
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

EL
6/8/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: K0805 Mod. Ref No.: SDG No.: SK0805

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0805-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1166.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

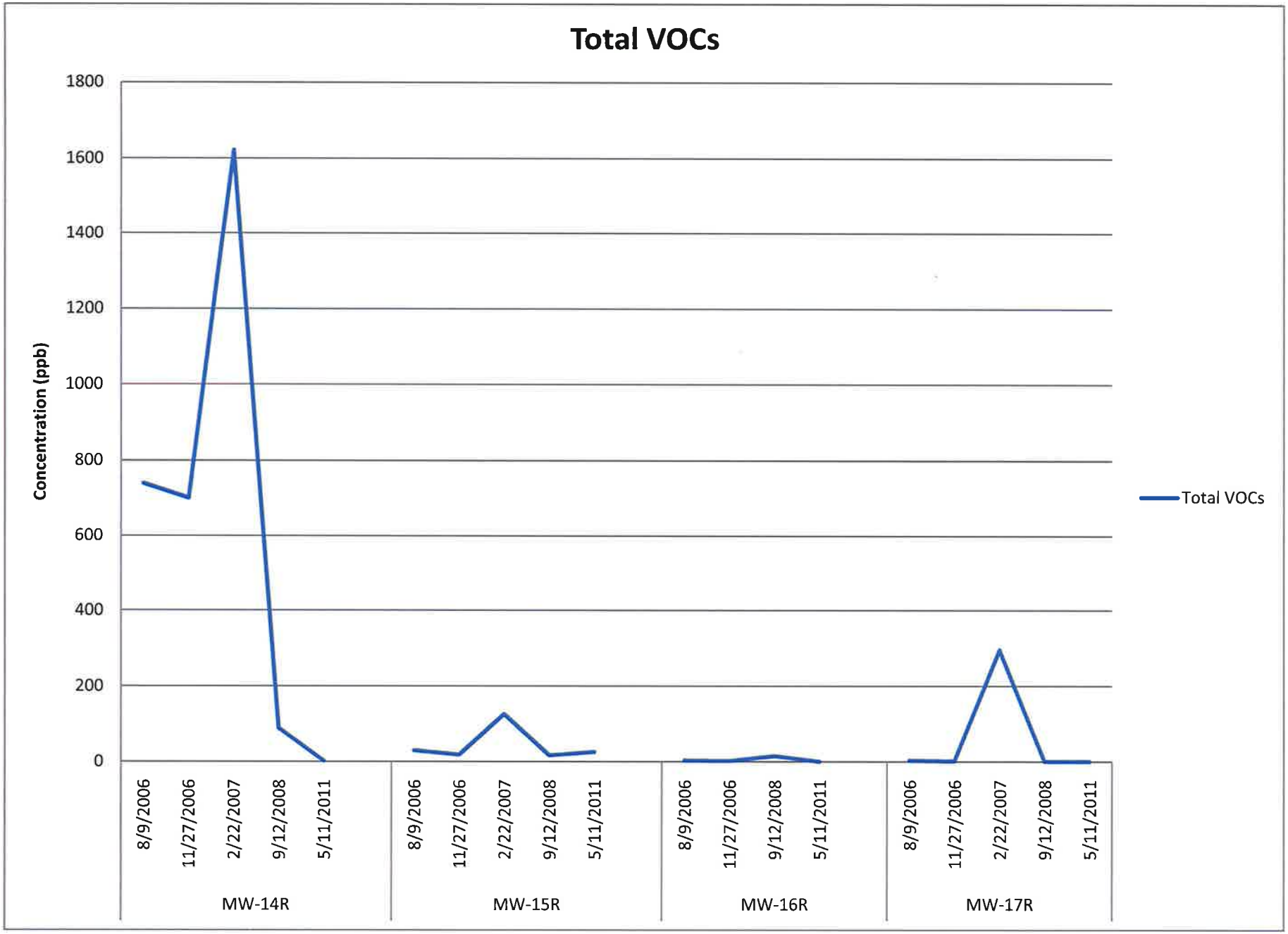
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
1634-04-4	Methyl tert-butyl ether	5.0	U
71-43-2	Benzene	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
98-82-8	Isopropylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
91-20-3	Naphthalene	5.0	U

EL
6/8/11

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix C

Graph of Total VOCs Over Time


Total VOCs
Concentration (ppb)
1800
1600
1400
1200
1000
800
600
400
200
0
8/9/2006
11/27/2006
2/22/2007
9/12/2008
5/11/2011
MW-14R
MW-15R
MW-16R
MW-17R
Total VOCs

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix D

Institutional Controls/Engineering Controls Certification Form

Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C828115**

Site Name Rochester Drug Cooperative Building

Site Address: 320 N. Goodman Street Zip Code: 14607
City/Town: Rochester
County: Monroe
Site Acreage: 2.7

Reporting Period: December 31, 2009 to May 15, 2011

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐ Based on Attached Engineers Report

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

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

Gary Stein
Signature of Owner, Remedial Party or Designated Representative

6-23-11
Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒ Based on Attached Env. Report
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐ Based on Attached Env. Report
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C828115 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
106.84-01-01	Gary and Marcia Stern Fam. Ltd Partnersh	Ground Water Use Restriction IC/EC Plan Landuse Restriction Monitoring Plan O&M Plan Site Management Plan Soil Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
106.84-01-01	Cover System Vapor Mitigation

Control Description for Site No. C828115

Parcel: 106.84-01-01

- Compliance with the environmental easement and the SMP;

- All asphalt surfaces and the on-site building are considered a cover system to prevent direct contact with residual contamination in soil and must be maintained;

- The SSDS must be monitored and operate on a continuous basis;

- Any future building must be evaluated for soil vapor intrusion;

- Groundwater quality must be monitored on a regular basis;

- Groundwater use is as a potable source is prohibited;

- The Site is restricted to commercial and/or industrial uses; and

- Periodic certification that all instutional and engineering controls are in place and that the SMP is being implemented.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☒	☐

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

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

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

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

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

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

YES	NO
☒	☐ Based on Attached Engineer's Report

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

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

Jason Stern
Signature of Owner, Remedial Party or Designated Representative

6-23-11
Date

IC CERTIFICATIONS
SITE NO. C828115

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I GARY STERN (print name) at 274 N. Goodman St.; Roch. NY 14607 (print business address)

am certifying as OWNER (Owner or Remedial Party)

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

Gary Stern
Signature of Owner or Remedial Party Rendering Certification

6-23-11
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I DANIEL NOLL (print name) at LaBella Associates, 300 STATE St., Rochester NY (print business address)

am certifying as a Professional Engineer for the OWNER (Owner or Remedial Party)

STATE OF NEW YORK
DANIEL P. NOLL
LICENSED PROFESSIONAL ENGINEER
Stamp No. 081996
(Required for PE)

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

6/30/2011
Date