



December 4, 2013

Ms. Charlotte B. Theobald
Environmental Engineer I
NYS Department of Environmental Conservation
Region 8, Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Andrews Street Site
300, 304-308 and 320 Andrews Street, and 25 Evans Street
Rochester, New York
ERP Site No. E828144

Dear Ms. Theobald:

On behalf of the City of Rochester (City) Division of Environmental Quality (DEQ), Day Environmental, Inc. (DAY) is providing this letter to serve as a Second Addendum to the New York State Department of Environmental Conservation (NYSDEC) approved Supplemental Remedial Investigation Work Plan dated May 2013. The Site is shown on the attached Project Locus Map as Figure 1.

The objective of this addendum is to complete soil vapor survey work at off-site locations in public right-of-ways (ROW) or City parkland near previous soil vapor survey test locations SV-2, SV-4 and SV-5, where detected Tetrachloroethene (PCE) soil vapor concentrations indicated a need to evaluate off-site soil vapor conditions in the direction of nearest potential off-site receptors.

Background

In accordance with the Supplemental RI Work Plan, soil vapor samples from locations SV-1 through SV-5 and a background outdoor air sample from location BG071813 were collected on July 18, 2013. These samples were subsequently analyzed by Chemtech Consulting Group, Inc. (Chemtech) for TO-15 VOCs. These initial sample locations are shown on Figure 2. The Data Usability Summary Report (DUSR)-validated test results are summarized on Table 1. As shown, PCE was detected in the soil vapor samples from SV-2, SV-3, SV-4 and SV-5 at concentrations of 188 ug/m³, 244 ug/m³, 881 ug/m³, 362 ug/m³, respectively. PCE was not detected in the soil vapor sample from SV-1. PCE was also detected in the background outdoor air sample at a concentration of 92.2 ug/m³. Other VOCs were detected in the soil vapor samples and background outdoor air sample; however, PCE is generally the predominant VOC detected at this Site. Trichloroethene (TCE), dichloroethene (DCE), and vinyl chloride (VC) that are typical breakdown products were detected at significantly lower concentrations than the detected concentrations of PCE.

A preliminary unvalidated version of these soil vapor results was provided to the NYSDEC in an email dated September 5, 2013. The NYSDEC forwarded this preliminary version to the New York State Department of Health (NYSDOH). Based on the results, the regulatory agencies are requiring off-site soil vapor survey work near on-site soil vapor locations SV-2, SV-4 and SV-5. Further off-site work near these locations was warranted by regulatory agencies in the direction of the following nearest potential off-site receptors:

- A commercial building that is occupied by a plumbing company is located on the opposite side of the Bristol Street public ROW in relation to soil vapor location SV-2 (refer to Figure 2).
- City parkland located on the opposite side of the Franklin Square public ROW in relation to soil vapor location SV-4.
- A commercial building last known to be occupied by a professional engineering company is located on the opposite side of the Andrews Street public ROW in relation to soil vapor location SV-5 (refer to Figure 2).

Proposed Addendum Work

In order to evaluate the potential presence of VOCs migrating off-site in soil vapor, the following scope of work is proposed:

1. Install three new soil vapor points (designated as SV-6, SV-7, and SV-8) at off-site locations shown on Figure 2. As shown, two of the locations are within public ROWs of Bristol Street and Andrews Street, and the third location is on City parkland. One or more of these locations may require modification depending upon the outcome of a utility stakeout. In addition, if test location SV-6 or SV-8 require being advanced on adjoining private property due to locations of buried utilities, etc. in the public ROWs, then an Access Agreement will be obtained from the owner of the corresponding private property prior to completing the work.
2. Collect one outdoor air background sample at an upwind location on the Site or off-site in relation to the three new soil vapor points.
3. Analyze the three soil vapor samples and outdoor air sample for TO-15 VOCs.
4. Incorporate a summary of the results on a data table.
5. Provide a preliminary data package to the NYSDEC and NYSDOH for review and determine if further work under a subsequent addendum is warranted.
6. Incorporate the findings in the Remedial Investigation (RI) Report.

Advancement and soil screening of borings for the soil vapor points, installation of the soil vapor points, health and safety air monitoring, community air monitoring, collection of the soil vapor samples and the outdoor air background sample, analytical laboratory testing of the samples, and validation of the samples will be completed in accordance with:

Ms. Charlotte B. Theobald
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- Applicable sections and protocols outlined the May 2013 Supplemental RI Work Plan, including the modifications and clarifications set forth in the NYSDEC's conditional approval letter dated June 7, 2013; and
- Applicable sections and protocols set forth in the site-specific Health and Safety Plan (HASP), Community Air Monitoring Plan (CAMP), and Quality Assurance Project Plan (QAPP) that were provided as appendices of the NYSDEC-approved August 2011 Remedial Investigation/Remedial Alternatives Analysis (RI/RAA) Work Plan.

This Second Addendum to the Supplemental RI Work Plan is being provided for regulatory review and approval. In order to continue to meet project schedule goals, an expedited review and approval would be greatly appreciated.

If there are any questions, please contact this office.

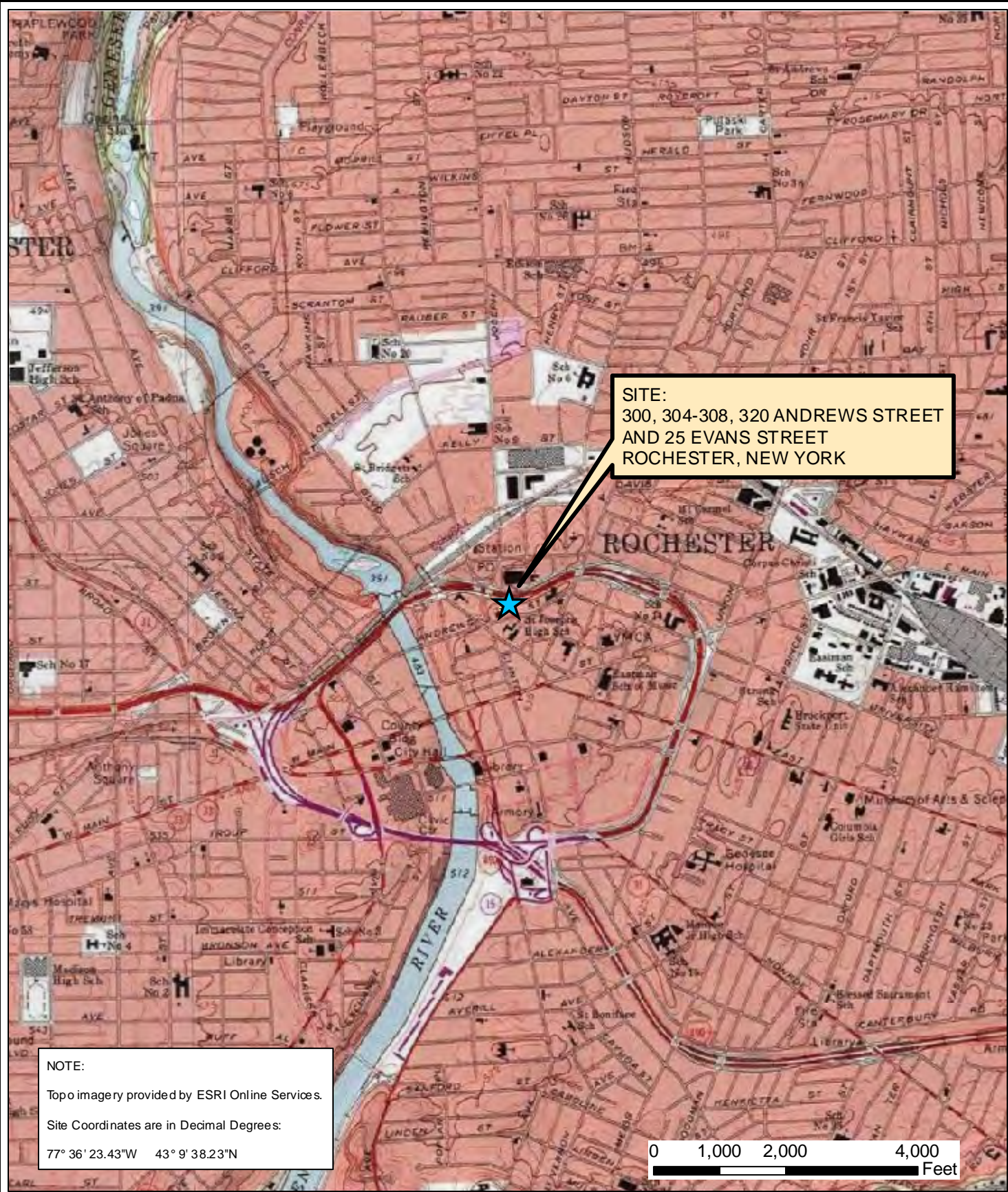
Very truly yours,
Day Environmental, Inc.



Jeffrey A. Danzinger
Project Manager

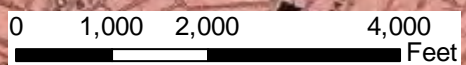
Enclosures – Figure 1, Figure 2, and Table 1

cc: Joseph Biondolillo, City of Rochester DEQ – electronic copy



SITE:
 300, 304-308, 320 ANDREWS STREET
 AND 25 EVANS STREET
 ROCHESTER, NEW YORK

NOTE:
 Topo imagery provided by ESRI Online Services.
 Site Coordinates are in Decimal Degrees:
 77° 36' 23.43"W 43° 9' 38.23"N

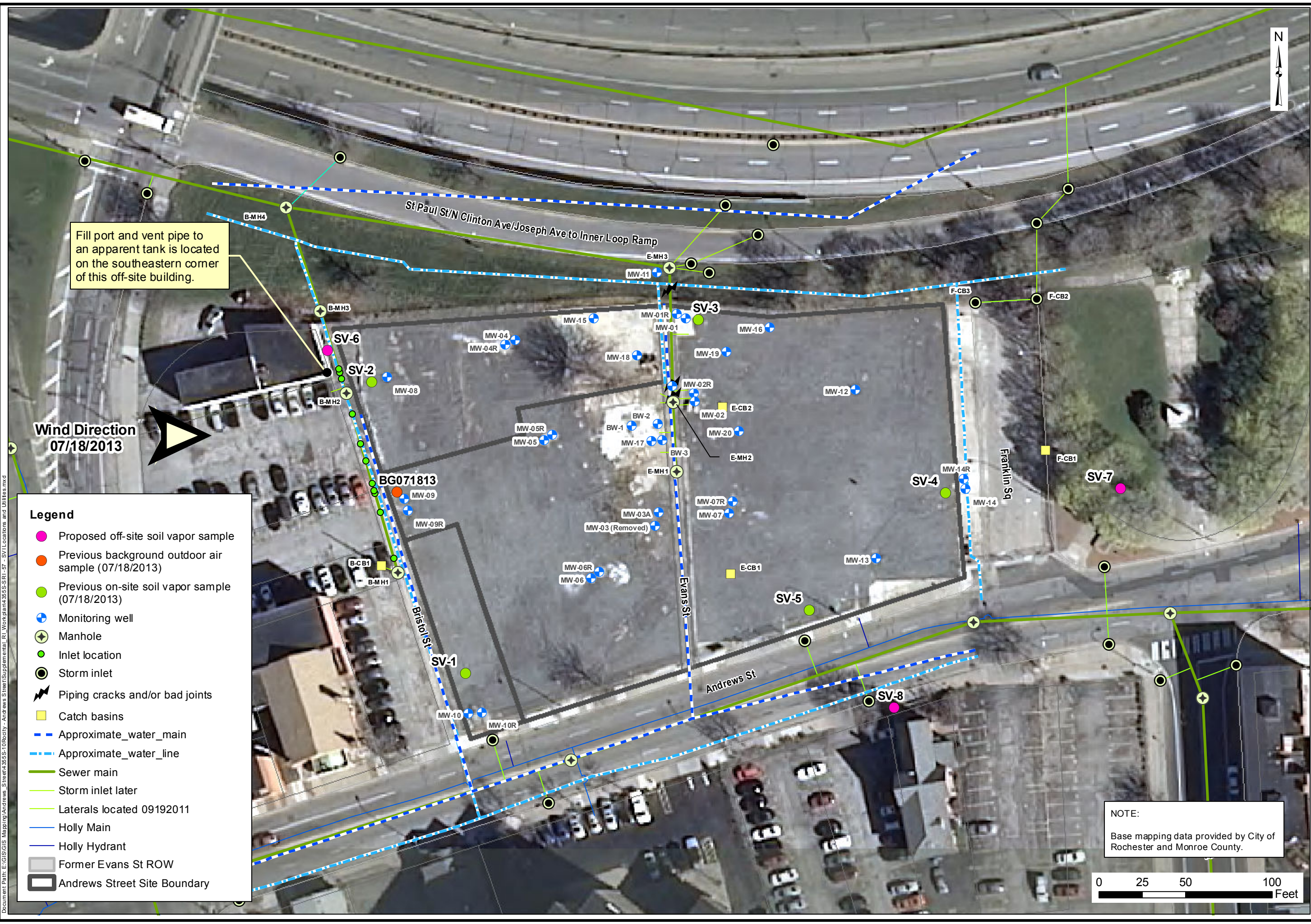


Date	10-01-2012
Drawn By	CPS
Scale	AS NOTED

day
DAY ENVIRONMENTAL, INC.
 Environmental Consultants
 Rochester, New York 14606
 New York, New York 10016-0701

Project Title	300, 304-308, 320 ANDREWS STREET AND 25 EVANS STREET ROCHESTER, NEW YORK (NY SDEC SITE NO.: E828144)
Drawing Title	ENVIRONMENTAL RESTORATION PROJECT Project Locus Map

Project No.	4355S-10
	FIGURE 1

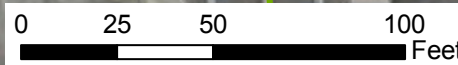


Fill port and vent pipe to an apparent tank is located on the southeastern corner of this off-site building.

Wind Direction
07/18/2013

- Legend**
- Proposed off-site soil vapor sample
 - Previous background outdoor air sample (07/18/2013)
 - Previous on-site soil vapor sample (07/18/2013)
 - ⊕ Monitoring well
 - ⊕ Manhole
 - Inlet location
 - ⊕ Storm inlet
 - ⚡ Piping cracks and/or bad joints
 - Catch basins
 - - - Approximate_water_main
 - - - Approximate_water_line
 - Sewer main
 - Storm inlet later
 - Laterals located 09192011
 - Holly Main
 - Holly Hydrant
 - ▭ Former Evans St ROW
 - ▭ Andrews Street Site Boundary

NOTE:
Base mapping data provided by City of Rochester and Monroe County.



DESIGNED BY	DATE
NES	11-2013
DRAWN BY	DATE DRAWN
CPS	11-2013
SCALE	DATE ISSUED
AS NOTED	12-04-2013

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
300, 304-308, 320 ANDREWS STREET
AND 25 EVANS STREET
ROCHESTER, NEW YORK

ENVIRONMENTAL RESTORATION PROJECT_NYSDEC SITE NO.: E828144

Project No.
4355S-10

Soil Vapor Sample Location Plan with Utilities Overlay

FIGURE 2

Table 1

300, 304-308 and 320 Andrews Street and 25 Evans Street
Rochester, New York
NYSDEC Site #E828144

Summary of Detected VOCs in ug/m³

Soil Vapor Survey Samples

Detected Constituent	NYSDOH Air Guidance Value (ug/m ³) ⁽¹⁾	NYSDOH Outdoor (ug/m ³) ⁽²⁾						
			535-SV-1	536-SV-2	537-SV-3	538-SV-4	539-SV-5	540-BG071813 Outdoor Air
			7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
1,1,1-Trichloroethane	NA	0.6	0.33 J	1.53 J	0.82 J	0.87 J	16.9	U
1,1,2-Trichlorotrifluoroethane	NA	2.5	1.23 J	1 J	1.15 J	0.92 J	2.68 J	0.84 J
1,2,4-Trimethylbenzene	NA	1.9	U	26.6	31.5	15.2	32	25.6
1,3,5-Trimethylbenzene	NA	0.7	U	10.3	12.3	8.85	12.8	8.85
1,4-Dichlorobenzene	NA	0.5	U	0.96 J	1.32 J	U	0.96 J	1.02 J
2-Butanone (MEK)	NA	5.3	4.13	58.4 D	101 D	97 D	72.8 D	36.6
4-Ethyltoluene	NA	NA	U	10.8	12.8	7.37	13.3	9.83
4-Methyl-2-Pentanone (MIBK)	NA	0.5	U	4.92	U	U	U	2.38
Acetone	NA	30	57.2 D	2232 D	2850 D	1187 D	1496 D	1449 D
Benzene	NA	4.8	7.67	8.95	32.6	57.2 D	38.7	2.2
Carbon Disulfide	NA	NA	0.37 J	46.4	163 D	71 D	44.2 D	3.74
Carbon Tetrachloride	NA	1.2	0.44 J	0.31 J	0.38 J	0.44 J	0.38 J	0.57 J
Chloroethane	NA	0.4	U	0.45 J	0.5 J	0.66 J	0.42 J	U
Chloroform	NA	0.5	U	160 D	31.2	129 D	6.35	0.63 J
Chloromethane	NA	4.3	2.68	0.81 J	1.55	1.96	1.14	1.78
cis-1,2-Dichloroethene	NA	0.4	0.4 J	U	U	0.48 J	U	U
Cyclohexane	NA	0.9	1.65 J	24.8	155 D	102 D	97.1 D	16.9
Dichlorodifluoromethane	NA	10	6.43	2.42 J	3.96	1.73 J	9.4	4.35
Ethylbenzene	NA	1.0	U	5.21	10.4	14.8	8.25	6.95
n-Heptane	NA	4.5	U	42.6	261 D	359 D	144 D	14.8
Hexane	NA	2.2	3.28	40.5	332 D	352 D	226 D	10.9
m/p-Xylene	NA	1.0	U	15.2	37.4	46.9	30	16.9
Methylene Chloride	60	1.6	11.8	49.3	95.9 D	110 D	82 D	69.8 D
o-Xylene	NA	1.2	U	6.52	13	14.8	10.9	7.38
Styrene	NA	0.5	U	9.79	13.2	7.24	10.2	10.6
tert-Butyl alcohol	NA	NA	U	25.8	51.2 D	38.2	76.4 D	25.8
Tetrachloroethene	100	0.7	U	188 D	244 D	881 D	362 D	92.2
Tetrahydrofuran	NA	0.4	1.89	7.37	13.3	43.9	15.9	10
Toluene	NA	5.1	0.94 J	167 D	199 D	223 D	158 D	297 D
Trichloroethene	5	0.4	U	0.86 J	1.83 J	2.85	1.02 J	1.56 J
Trichlorofluoromethane	NA	5.1	1.91 J	9.55	4.72	5.39	58.4	2.25 J
Vinyl Chloride	NA	0.4	U	0.38 J	0.38 J	0.31 J	0.41 J	U

U = Not detected at concentration above analytical laboratory reporting limit. NA = Not Available. VOCs = Volatile Organic Compounds

⁽¹⁾ Air guidance value referenced in the NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

⁽²⁾ Outdoor Air Upper Fence value referenced in Table C1 of the NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

No NYSDOH criteria is available for soil vapor samples Reported results are DUSR validated

J = Estimated value

D = Compound identified in an analysis at a secondary dilution factor