

State of Wisconsin  
DEPARTMENT OF NATURAL RESOURCES  
2984 Shawano Avenue  
Green Bay WI 54313-6727

Scott Walker, Governor  
Daniel L. Meyer, Secretary  
Telephone 608-266-2621  
Toll Free 1-888-936-7463  
TTY Access via relay - 711



January 10, 2018

Mr. Larry Rice  
Waupaca Elevator  
1726 North Ballard Road, Suite 1  
Appleton, WI 54911

Floss Daily, LLC  
c/o Mr. Garritt Bader, Principal, Green Bay Real Estate Investments, LLC  
300 North Van Buren Street  
Green Bay, WI 54301

SUBJECT: Request for Additional Information  
One Hour Martinizing – Main Street, 1931 Main Street, Green Bay, WI  
DNR BRRTS #s: 02-05-217276 (ERP/DERF) and 06-05-576806 (VPLE)

Dear Mr. Rice and Mr. Bader:

On November 29, 2017, the Department of Natural Resources (DNR) received the Case Closure – GIS Registry, Form 4400-202 for the One Hour Martinizing – Main Street site. This submittal was prepared by Fehr Graham and submitted to the DNR on behalf of Waupaca Elevator and Floss Daily, LLC. On January 5, 2018, the DNR reviewed the submitted information and requests the following additional items:

- Provide the DNR with an updated Case Closure – GIS Registry, Form 4400-202.
  - General Comments
    - The submitted Case Closure – GIS Registry, Form 4400-202 request applies to Lot 3.
      - Lot 1 was addressed under the DNR Bureau for Remediation and Redevelopment Tracking System (BRRTS) site known as Lot 1 Main Street – North Shore Bank, BRRTS # 09-05-578470.
      - Lot 2 was addressed under the DNR BRRTS site known as Lot 2 Main Street – GB Roast Beef, BRRTS # 09-05-578471.
    - The submitted Case Closure – GIS Registry, Form 4400-202 request applies to the contaminants associated with the environmental repair program (ERP)/dry cleaning environmental response fund site (DERF) site and the Voluntary Party Liability Exemption (VPLE) site. All maps and tables should be updated to include all available sampling locations and data.
    - Attached please find information that was obtained as part of the VPLE related activities. Incorporate this information into the applicable sections of the Case Closure – GIS Registry, Form 4400-202.
  - Page 1, VPLE Number – Add the VPLE number (i.e. 06-05-576806).

- Page 1, Site Address – Update the site address (i.e. 1931 Main Street).
- Page 1, Responsible Party (RP) Name – Add Floss Daily, LLC as a responsible party for the non-dry cleaner related contamination.
- Page 1, Check here if the RP is the owner of the source property – Check this box since Floss Daily, LLC is a responsible party for the non-dry cleaner related contamination and the current property owner.
- Page 1, WTM Coordinates: WTM X: 680940 WTM Y: 448620
- Page 4, Section B.iii. – Verify the velocity units (i.e. year vs. day).
- Page 15, Section 5.i - Add an “x” for both Affected Property and ROW
- Page 15, Section 5.iv. – If applicable, update this section based on the outcome of the monitoring well abandonment activities.
- Page 15, Section 5.ix. – Remove the “x” associated with the Source Property.
- Page 15, Section 5.xiii. – Add an “x” for the Source Property.
- Section A.1. – Add a note to page 23 with respect to sample location W-1. Refer to the attached November 30, 2017 email from Matt Dahlem, Fehr Graham, to Kristin DuFresne, DNR.
- Section A.4. – Add the residential sub-slab VRSLs to the table.
- Section B.3.b. - Provide an updated figure.
  - Add the location of sample W-1 to this figure.
  - Due to the presence of polycyclic aromatic hydrocarbons (PAHs), ensure the following VPLE sample locations are located within the Wis. Adm. Code Chapter NR 140 preventive action limit contour: MW-4, MW-5, MW-6, MW-8, MW-11, MW-12 and MW-13.
- Section B.3.d. - Update this figure based on the outcome of the monitoring well abandonment activities. Include monitoring well construction and development forms ONLY for the wells that can not be properly abandoned.
- Section D. – Update Figure D.2 in the Cap Maintenance Plan so that it identifies a specific area where cap maintenance is required.
- Page 21, Engineering Certification – Please complete this section.

When the above actions have been completed (recommended within 60 days of the date of this letter), submit the appropriate documentation to the DNR to verify their completion.

Mr. Rice and Mr. Bader  
Request for Additional Information  
One Hour Martinizing – Main (BRRTS # 02-05-217276)  
January 10, 2018

The DNR appreciates your efforts to restore the environment at this site. This project is nearing completion. We look forward to working with you to complete all remaining actions that are necessary to achieve closure.

If you have any questions regarding this letter, please contact me by phone at (920) 662-5420 or by email at [Keld.Lauridsen@Wisconsin.gov](mailto:Keld.Lauridsen@Wisconsin.gov).

Sincerely,



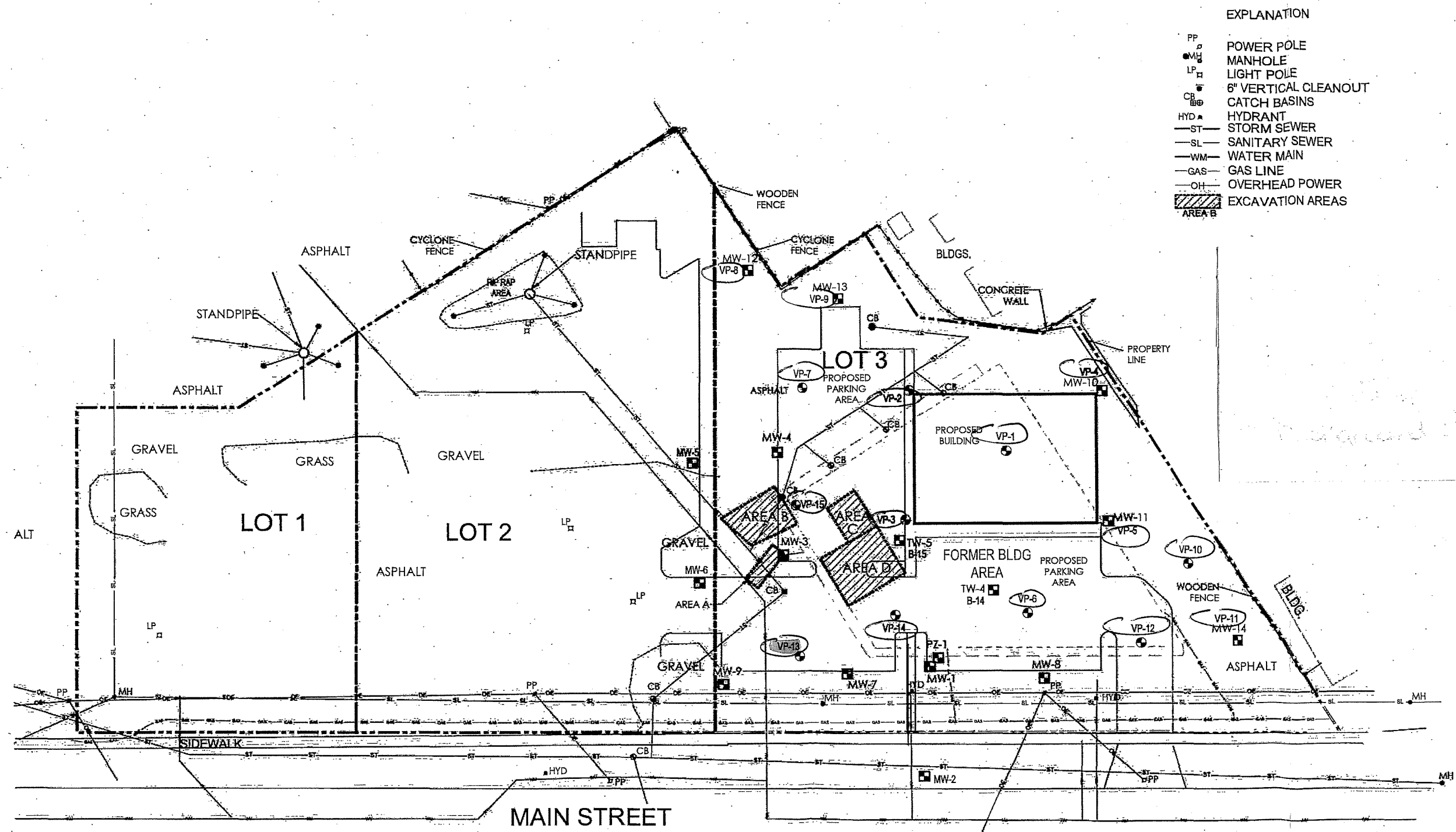
Keld Lauridsen  
Hydrogeologist  
Remediation & Redevelopment Program

Attachments:

- Figure 3 – Soil Probe, Boring, Monitoring & Temporary Monitoring Well Location dated May 2016
- Table 1 – Summary of Soil Analytical Results, 1923 – 1935 Main Street
- Table 1 – Summary of Soil Analytical Results, GB Main Street
- Figure 4 – Groundwater Elevation Contour & Flow Direction – April 21, 2016 dated May 2016
- Table 2 – Summary of Groundwater Analytical Results, GB Main Street
- Figure 4 – Vapor Mitigation System Layout & Vapor Point Location Diagram dated September 2016
- Table 4 – Summary of Sub-Slab Vapor Soil Analytical Results, Former One Hour Martinizing
- Figure 5 – Geologic Cross – Section dated May 2016
- Table 1 – Summary of Soil Analytical Results, Former One hour Martinizing
- Table 3 – Water Level Data
- November 30, 2017 email from Matt Dahlem, Fehr Graham, to Kristin DuFresne, DNR

ec: Matt Dahlem, Fehr Graham ([mdahlem@fehr-graham.com](mailto:mdahlem@fehr-graham.com))

Brian Youngwirth, General Engineering ([byoungwirth@generalengineering.net](mailto:byoungwirth@generalengineering.net))



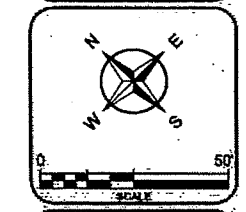
- EXPLANATION**
- PP POWER POLE
  - MH MANHOLE
  - LP LIGHT POLE
  - VC 6" VERTICAL CLEANOUT
  - CB CATCH BASINS
  - HYD HYDRANT
  - ST STORM SEWER
  - SL SANITARY SEWER
  - WM WATER MAIN
  - GAS GAS LINE
  - OH OVERHEAD POWER
  - AREA B EXCAVATION AREAS



**General Engineering Company**  
 P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53001  
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 www.generalengineering.net

**SOIL PROBE, BORING, MONITORING & TEMPORARY MONITORING WELL LOCATION**  
**VLPE Site Investigation**  
**GB Real Estate Development, LLC**  
 City of Green Bay  
 Brown County, WI

- LEGEND**
- MONITORING WELL LOCATION
  - PIEZOMETER LOCATION
  - SOIL BORING LOCATION
  - EXCAVATION AREAS



DRAWN BY	KD
REVIEWED BY	LMB
ISSUE DATE	May 2016
GEC FILE NO.	2-0915-231
SHEET NO.	

**FIGURE 3**

TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
1923-1935 MAIN STREET  
02-0615-231

Sample No.	NC RCL (ug/kg)	C RCL (ug/kg)	Not-To-Exceed Direct Contact	Soil to Groundwater RCL	Lot 1		Lot 1		Lot 1		Lot 1		Lot 1		Lot 2					
					B-1		B-2		B-3		B-4		B-5		B-6		B-7			
					09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/23/15	09/23/15	09/22/15	09/22/15	09/22/15	09/22/15	
Sample Depth (feet)					2.5-4	7.5-9.5	2.5-4.5	7.5-9.5	2.5-4.5	5-7	5-7	2.5-4.5	10-12	4-6'	2-4'	5-7	8-10	2.5-4.5	10-12	
<b>PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOC) (ug/kg)</b>																				
Benzene	111,000	1,490	1,490	5.1	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
n-Butylbenzene	3,910,000	NE	108,000	NE	<86	<86	<86	<86	<86	<86	<86	112J	<86	<86	<86	<86	<86	<86	<86	<86
Ethylbenzene	4,200,000	7,470	7,470	1,570	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
Methyl tert-butyl ether	23,800,000	59,400	59,400	27	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	188,000	5,150	5,150	658	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87
n-Propylbenzene	3,970,000	NE	264,000	NE	<35	<35	<35	<35	<35	<35	<35	79J	<35	<35	<35	<35	<35	<35	<35	<35
Tetrachloroethene	115,000	30,700	30,700	4.5	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
Toluene	5,300,000	NE	818,000	1107	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
Trichloroethene	6,050	1,260	1,260	3.6	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42
1,2,4-Trimethylbenzene	89,800	NE	89,800	1382	<78	<78	<78	<78	<78	<78	<78	740	<78	<78	<78	<78	<78	<78	<78	<78
1,3,5-Trimethylbenzene	782,000	NE	182,000	1382	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89
Xylenes, -m, -p	890,000	NE	258,000	3940	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes, -o					<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29

ug/kg = micrograms per kilogram  
RCL = Residual Contaminant Level  
SSL = Soil Screening Level  
DCL = Direct Contact Level  
NA = Parameter not analyzed  
NE = NR 720 RCL not established  
J = Analyte detected above laboratory limit of detection but below limit of quantitation.  
Bold indicates analytical results exceed NR 720 RCL

TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
1923-1935 MAIN STREET  
02-0615-231

Lot2 Lot2 Lot2 Lot2 Lot2 Lot2 Lot3 Lot3

Sample No.	NC RCL (ug/kg)	C RCL (ug/kg)	Not-To-Exceed Direct Contact	Soil to Groundwater RCL	B-8		B-9		B-10		B-11		B-12		B-13	B-14	B-15
					09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/22/15	09/23/15	09/23/15	09/23/15	09/23/15	09/23/15	09/23/15	09/23/15
Sampling Date					2.5-4.5	7.5-9.5	2.5-4.5	7.5-9.5	2.5-4.5	7.5-9.5	2.5-4.5	7.5-9.5	5-7	7.5-9.5	5-7	2-4	2-4
Sample Depth (feet)																	
<b>PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOCS) (ug/kg)</b>																	
Benzene	111,000	1,490	1,490	5.1	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
n-Butylbenzene	3,910,000	NE	108,000	NE	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86
Ethylbenzene	4,200,000	7,470	7,470	1,570	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
Methyl tert-butyl ether	23,800,000	59,400	59,400	27	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	188,000	5,150	5,150	658	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87	<87
n-Propylbenzene	3,970,000	NE	264,000	NE	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
Tetrachloroethene	115,000	30,700	30,700	4.5	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
Toluene	5,300,000	NE	818,000	1107	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
Trichloroethene	6,050	1,260	1,260	3.6	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42
1,2,4-Trimethylbenzene	89,800	NE	89,800	1382	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
1,3,5-Trimethylbenzene	782,000	NE	182,000	1382	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89
Xylenes, -m, -p	890,000	NE	258,000	3940	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes, -o					<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29

ug/kg = micrograms per kilogram  
RCL = Residual Contaminant Level  
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DCL = Direct Contact Level  
NA = Parameter not analyzed  
NE = NR 720 RCL not established  
J = Analyte detected above laboratory limit of detection but below limit of quantitation.  
Bold indicates analytical results exceed NR 720 RCL

**TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
GB MAIN STREET  
GEC PROJECT #2-0615-231**

Sample No. Sampling Date	NR 720 RCL	WDNR Non-Industrial RCL (Direct Contact)	WDNR Soil to Groundwater RCL	Background Threshold Value (mg/kg)	VP-1		VP-2		VP-3		VP-4		VP-5	
					04/20/2016	13-15	04/20/2016	2-4	8-10	04/21/2016	2-4	8-10	04/20/2016	2-4
Sample Depth (feet)	VOLATILE ORGANIC COMPOUNDS (VOCs) (µg/kg)													
Benzene	1490	1490	5.1	NE	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
cis 1,2 Dichloroethene	156000	156000	41.2	NE	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21
Ethylbenzene	7470	7470	1570	NE	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
Methyl tert-butyl ether	59400	59400	27	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30700	30700	4.5	NE	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
Toluene	5300000	818000	1107	NE	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
Trichloroethene	1260	1260	3.6	NE	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42
1,2,4-Trimethylbenzene	89800	89800	1382	NE	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
1,3,5-Trimethylbenzene	782000	182000	1382	NE	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89
Xylenes, -m, -p	890000	258000	3940	NE	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes, -o					<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
RCRA METALS (RCRA) (mg/kg)														
Mercury	14.7	3.13	0.208	NE	<0.0028	0.0179J	<0.0028	<0.0028	<0.0028	0.00775J	<0.0028	0.0047J	0.0075J	<0.0028
Asbestos	0.677	0.613	0.584	8	2.3	4.2	1.09J	3.04	2.95	2.44	1.12J	1.19J	1.89J	1.74J
Barium	15300	15300	164.8	364	10.50	103.00	9.94	17.60	17.70	29.00	8.02	13.60	23.70	10.30
Cadmium	71.170	70	0.752	1	<0.07	0.175J	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.100J	<0.07
Chromium	NE	NE	360000	44	4.72	25.10	3.97	4.99	10.20	12.40	4.21	4.99	6.51	3.82
Copper	3130	3130	91.6	35	6.68	32.50	2.19	9.01	7.43	13.50	6.76	9.06	4.63	6.01
Lead	400 NE	400	27	52	1.58	8.62	1.10	2.08	1.86	3.16	1.06	2.43	5.88	1.78
Nickel	1550	1550	13	31	5.72	27.40	3.24	6.11	8.45	11.70	4.46	5.86	5.22	4.13
Selenium	391	391	0.52	NE	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
Silver	391	391	0.85	NE	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Zinc	23500	23500	NE	150	7.81	39.40	6.57	9.51	8.52	13.10	7.37	8.83	11.9	6.76
DETECTED POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) (µg/kg)														
Acenaphthene	3440000	3440000	NE	NE	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Acenaphthylene	NE	NE	NE	NE	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9
Anthracene	17200000	17200000	197727	196744	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5
Benzo(a)anthracene	148	148	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Benzo(a)pyrene	15	15	470	470	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8
Benzo(b)fluoranthene	148	148	479	480	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4
Benzo(g,h,i)perylene	NE	NE	NE	NE	<17	<17	<17	<17	<17	<17	<17	<17	<17	<17
Benzo(k)fluoranthene	1480	1480	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Chrysene	14800	14800	145	145	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6
Dibenz(a,h)anthracene	15	15	NE	NE	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2
Fluoranthene	2290000	2290000	88818	88818	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6
Fluorene	2290000	2290000	14802	14815	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Indeno(1,2,3-cd)pyrene	148	148	NE	NE	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3
1-Methylnaphthalene	15600	15600	NE	NE	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4
2-Methylnaphthalene	229000	229000	NE	NE	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8
Naphthalene	5150	5150	658	NE	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2
Phenanthrene	NE	NE	NE	NE	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3
Pyrene	1720000	1720000	54132	54473	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8

J = Analyte detected above laboratory limit of detection but below limit of quantitation.  
 Bold indicates analytical results exceed NR 720 RCL or generic RCL for direct contact or groundwater pathway  
 RCL = Residual Contaminant Level  
 SSL = Soil Screening Levels  
 DCL = Direct-Contact Levels  
 NA = Parameter not analyzed  
 NE = NR 720 RCL not established

**TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
GB MAIN STREET  
GEC PROJECT #2-0615-231**

Sample No. Sampling Date	NR 720 RCL	WDNR Non-Industrial RCL (Direct Contact)	WDNR Soil to Groundwater RCL	Background Threshold Value (mg/kg)	VP-6		VP-7		VP-8		VP-9		VP-10	
					04/21/2016		04/20/2016		04/20/2016		04/20/2016		04/20/2016	
					2-4	8-10	2-4	6-8	2-4	8-10	2-4	6-8	2-4	8-10
<b>VOLATILE ORGANIC COMPOUNDS (VOCs) (µg/kg)</b>														
Benzene	1490	1490	5.1	NE	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
cis 1,2 Dichloroethene	156000	156000	41.2	NE	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21
Ethylbenzene	7470	7470	1570	NE	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
Methyl tert-butyl ether	59400	59400	27	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30700	30700	4.5	NE	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
Toluene	5300000	818000	1107	NE	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
Trichloroethene	1260	1260	3.6	NE	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42
1,2,4-Trimethylbenzene	89800	89800	1382	NE	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
1,3,5-Trimethylbenzene	782000	182000	1382	NE	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89
Xylenes, -m, -p	890000	258000	3940	NE	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes, -o					<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
<b>RCRA METALS (RCRA) (mg/kg)</b>														
Mercury	14.7	3.13	0.208	NE	<0.0028	0.00847J	<0.0028	<0.0028	0.0054J	0.0055J	<0.0028	<0.0028	<0.0028	0.0072J
Asbestos	0.613	0.613	0.584	8	1.87J	3.82	1.12J	1.69J	1.86J	2.39	<0.65	1.48J	1.00J	3.39
Barium	15300	15300	164.8	364	14.8	54.2	12.7	21.8	17.0	57.9	10.6	11.0	14	69.8
Cadmium	70	70	0.752	1	<0.07	<0.07	<0.07	<0.07	<0.07	0.105J	<0.07	<0.07	<0.07	0.098J
Chromium	NE	NE	360000	44	13.50	20.50	7.44	7.39	7.10	14.10	6.65	4.31	6.7	18.3
Copper	3130	3130	91.6	35	6.32	20.20	5.89	10.50	11.20	22.50	7.73	8.04	6.16	26
Lead	NE	400	27	52	2.01	5.08	1.98	2.56	2.77	5.75	1.97	2.00	1.52	6.33
Nickel	1550	1550	13	31	6.44	18.30	6.57	8.77	9.95	17.8	6.14	8.75	5.76	21.0
Selenium	391	391	0.52	NE	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
Silver	391	391	0.85	NE	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Zinc	23500	23500	NE	150	8.62	22.00	10.60	12.30	13.00	23.90	9.66	7.69	9.50	29.9
<b>DETECTED POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) (µg/kg)</b>														
Acenaphthene	3440000	3440000	NE	NE	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Acenaphthylene	NE	NE	NE	NE	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9
Anthracene	17200000	17200000	197727	196744	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5
Benzo(a)anthracene	148	148	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Benzo(a)pyrene	15	15	470	470	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8
Benzo(b)fluoranthene	148	148	479	480	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4
Benzo(g,h,i)perylene	NE	NE	NE	NE	<17	<17	<17	<17	<17	<17	<17	<17	<17	<17
Benzo(k)fluoranthene	1480	1480	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Chrysene	14800	14800	145	145	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6
Dibenz(a,h)anthracene	15	15	NE	NE	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2
Fluoranthene	2290000	2290000	88818	88818	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6
Fluorene	2290000	2290000	14802	14815	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Indeno(1,2,3-cd)pyrene	148	148	NE	NE	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3
1-Methylnaphthalene	15600	15600	NE	NE	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4
2-Methylnaphthalene	229000	229000	NE	NE	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8
Naphthalene	5150	5150	658	NE	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2
Phenanthrene	NE	NE	NE	NE	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3
Pyrene	1720000	1720000	54132	54473	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8

J = Analyte detected above laboratory limit of detection but below limit of quantitation.  
 Bold indicates analytical results exceed NR 720 RCL or generic RCL for direct contact or groundwater pathway  
 RCL = Residual Contaminant Level  
 SSL = Soil Screening Levels  
 DCL = Direct-Contact Levels  
 NA = Parameter not analyzed  
 NE = NR 720 RCL not established

< Bkg

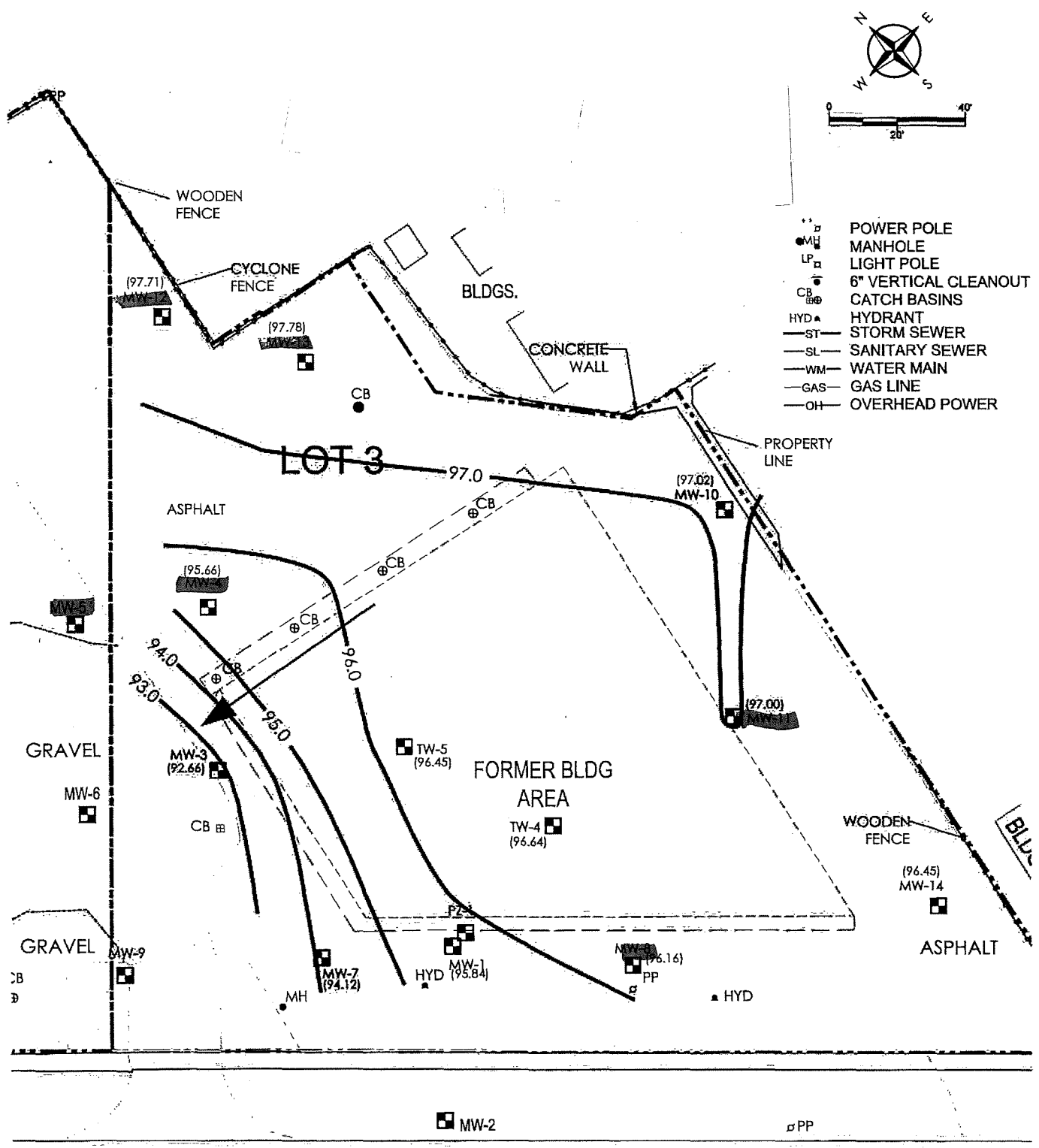


TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
GB MAIN STREET  
GEC PROJECT #2-0615-231

Sample No.	Sampling Date	WDNR Non-Industrial RCL (Direct Contact)	WDNR Soil to Groundwater RCL	Background Threshold Value (mg/kg)	VP-11		VP-12		VP-13		VP-14		VP-15	
					04/21/2016	6-8	04/20/2016	4-6	8-10	04/21/2016	2-4	6-8	04/21/2016	2-4
Sample Depth (feet)														
<b>VOLATILE ORGANIC COMPOUNDS (VOCs) (µg/kg)</b>														
Benzene	1490	1490	5.1	NE	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
cis 1,2 Dichloroethene	156000	156000	41.2	NE	<21	<21	<21	<21	<21	75	<21	<21	<21	<21
Ethylbenzene	7470	7470	1570	NE	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
Methyl tert-butyl ether	59400	59400	27	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30700	30700	4.5	NE	<54	<54	<54	<54	<54	<54	660	7700	<54	<54
Toluene	5300000	818000	1107	NE	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
Trichloroethene	1260	1260	3.6	NE	<42	<42	<42	<42	<42	<42	850	7700	<42	<42
1,2,4-Trimethylbenzene	89800	89800	1382	NE	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
1,3,5-Trimethylbenzene	782000	182000	1382	NE	<89	<89	<89	<89	<89	<89	<89	<89	<89	<89
Xylenes, -m, -p	890000	258000	3940	NE	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes, -o					<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
<b>RCRA METALS (RCRA) (mg/kg)</b>														
Mercury	14.7	3.13	0.208	NE	0.00446J	0.00813J	<0.0028	0.0075J	<0.0028	0.00838J	0.0375	<0.0028	<0.0028	<0.0028
Arsenic	0.613	0.613	0.584	8	1.87J	5.32J	0.882J	3.71J	4.19J	4.89J	3.43J	2.05J	<0.65	1.65J
Barium	15300	15300	164.8	364	29.2	59.8	9.9	75.1	36.9	105.0	122.0	24.8	8.68	19.4
Cadmium	70	70	0.752	1	<0.07	<0.07	<0.07	0.131J	<0.07	0.131J	0.599	<0.07	<0.07	<0.07
Chromium	NE	NE	360000	44	13.00	22.20	4.74	20.20	13.20	36.40	15.70	11.25	4.49	8.89
Copper	3130	3130	91.6	35	5.93	21.20	3.19	26.90	16.40	32.50	8.37	11.00	1.67J	8.1
Lead	NE	400	27	52	2.30	4.71	1.64	6.86	3.52	7.80	7.69	3.18	1.07	2.28
Nickel	1550	1550	13	31	9.24	19.40	3.33	22.30	12.50	37.5J	10.3	10.0	2.61	7.48
Selenium	391	391	0.52	NE	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	1.07J	<0.74	<0.74	<0.74
Silver	391	391	0.85	NE	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Zinc	23500	23500	NE	150	13.50	24.40	7.73	31.60	12.10	42.90	43.10	10.80	3.16	8.22
<b>DETECTED POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) (µg/kg)</b>														
Acenaphthene	3440000	3440000	NE	NE	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Acenaphthylene	NE	NE	NE	NE	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9	<17.9
Anthracene	17200000	17200000	197727	196744	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5	<18.5
Benzo(a)anthracene	148	148	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Benzo(a)pyrene	15	15	470	470	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8
Benzo(b)fluoranthene	148	148	479	480	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4	<19.4
Benzo(g,h,i)perylene	NE	NE	NE	NE	<17	<17	<17	<17	<17	<17	<17	<17	<17	<17
Benzo(k)fluoranthene	1480	1480	NE	NE	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4	<17.4
Chrysene	14800	14800	145	145	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6	<20.6
Dibenz(a,h)anthracene	15	15	NE	NE	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2
Fluoranthene	2290000	2290000	88818	88818	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6	<19.6
Fluorene	2290000	2290000	14802	14815	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2	<20.2
Indeno(1,2,3-cd)pyrene	148	148	NE	NE	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3	<22.3
1-Methylnaphthalene	15600	15600	NE	NE	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4	<21.4
2-Methylnaphthalene	229000	229000	NE	NE	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8
Naphthalene	5150	5150	658	NE	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2	<18.2
Phenanthrene	NE	NE	NE	NE	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3	<16.3
Pyrene	1720000	1720000	54132	54473	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8

J = Analyte detected above laboratory limit of detection but below limit of quantification.  
 Bold indicates analytical results exceed NR 720 RCL or generic RCL for direct contact or groundwater pathway  
 RCL = Residual Contaminant Level  
 SSL = Soil Screening Levels  
 DCL = Direct-Contact Levels  
 NA = Parameter not analyzed  
 NE = NR 720 RCL not established

< Bkgd



MAIN STREET

**LEGEND**

- MONITORING WELL LOCATION
- PIEZOMETER LOCATION

**General Engineering Company**

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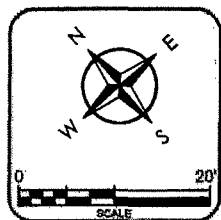
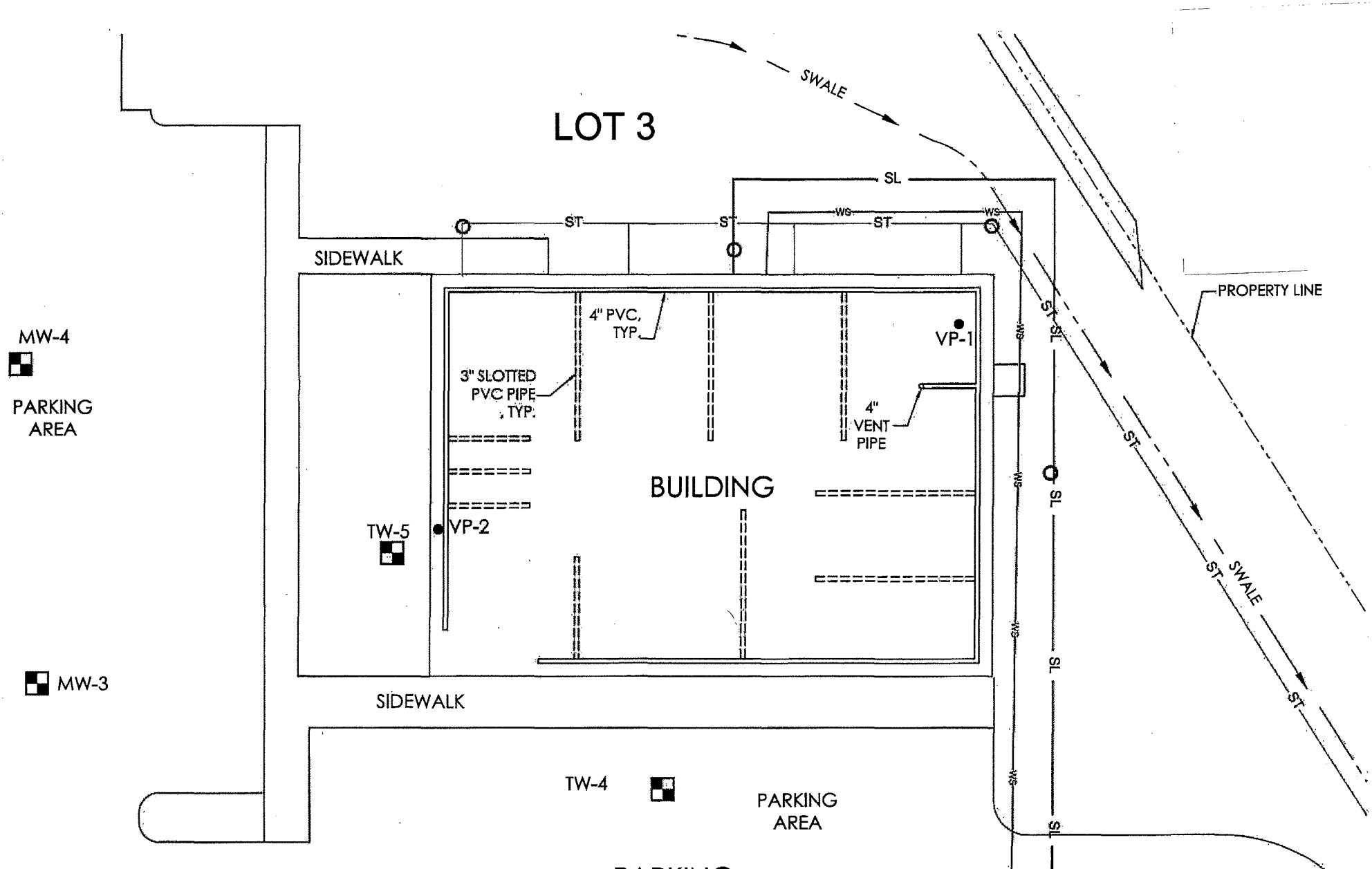
**GROUNDWATER ELEVATION CONTOUR & FLOW DIRECTION - APRIL 21, 2016**

**VLPE Site Investigation**  
**GB Real Estate Development**  
 City of Green Bay  
 Brown County

**GEC**

DRAWN BY:	KP
REVIEWED BY:	LMB
ISSUE DATE:	May 2016
GEC FILE NO.:	2-0615-231
SHEET NO.:	<b>FIGURE 4</b>





LEGEND	
	MONITORING WELL LOCATION
	VAPOR PORT LOCATION
	SEWER LINE CLEANOUT LOCATION
	STORM LATERAL LOCATION
	SANITARY LATERAL LOCATION
	WATER LATERAL LOCATION

**General Engineering Company**  
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**VAPOR MITIGATION SYSTEM LAYOUT & VAPOR POINT LOCATION DIAGRAM**  
**G.B. Real Estate Development, LLC**  
 1923 Main St.  
 City of Green Bay  
 Brown County, WI

**GEC**

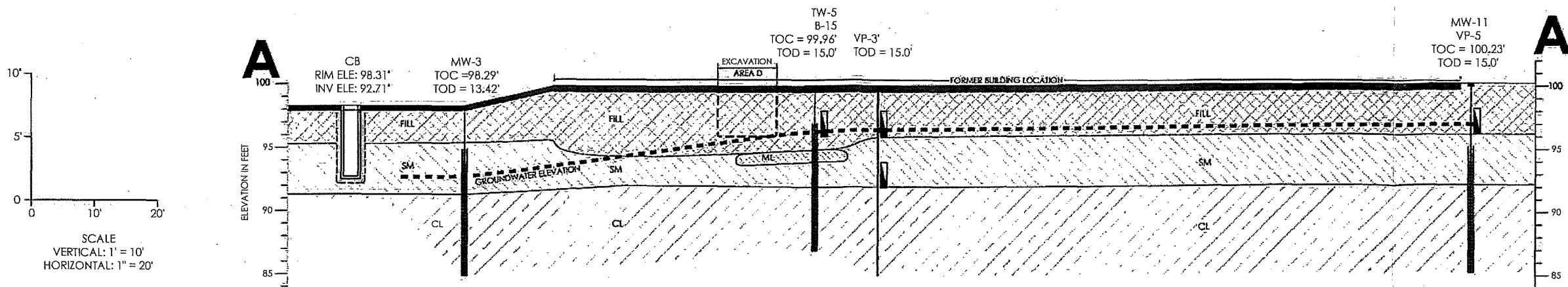
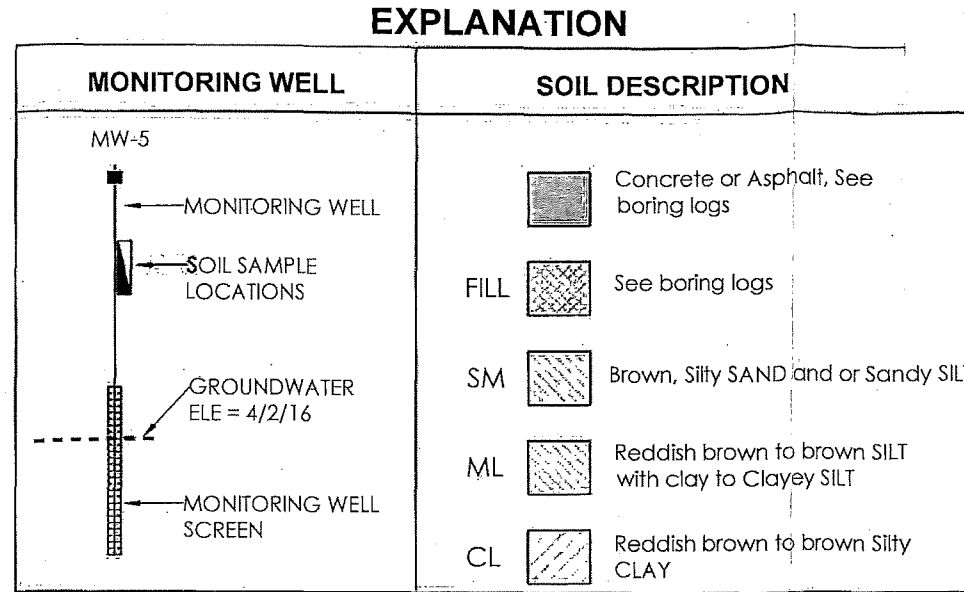
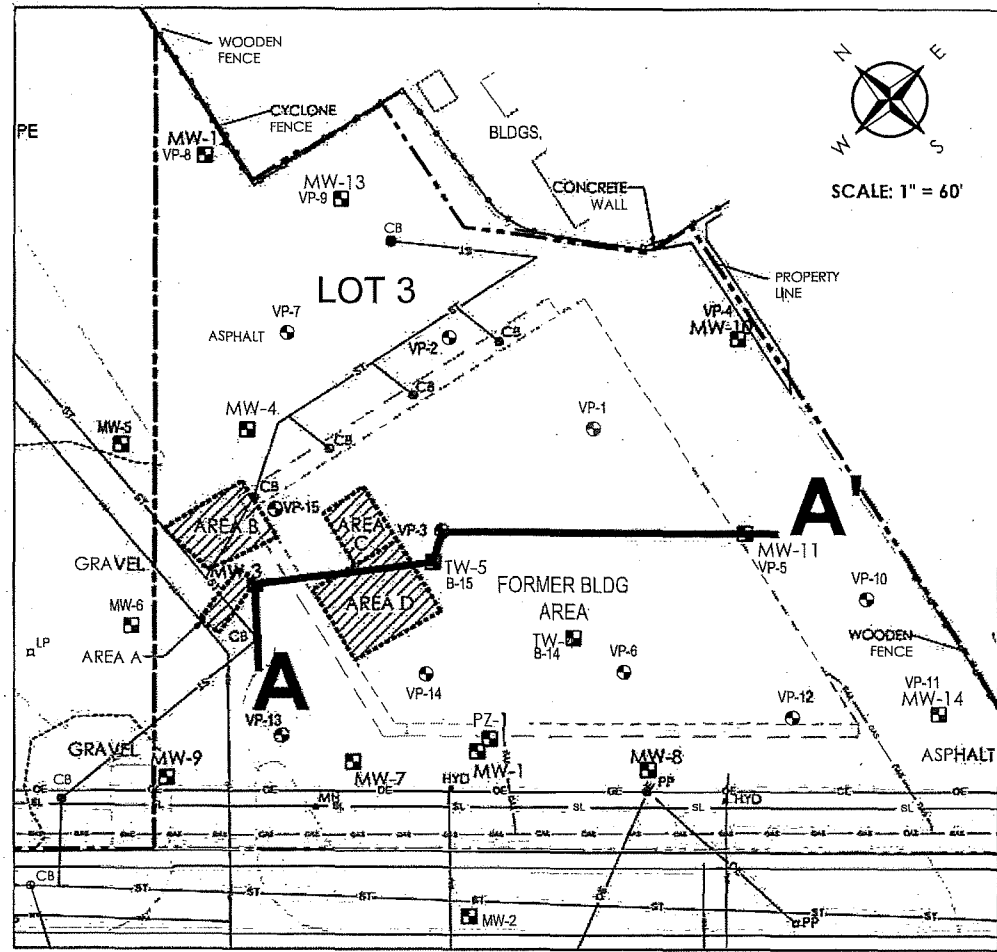
DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	Sept 2018
GEC FILE NO.	2-0615-231
SHEET NO.	
<b>FIGURE 4</b>	

**TABLE 4**  
**SUMMARY OF SUB-SLAB VAPOR SOIL ANALYTICAL RESULTS**  
**FORMER ONE HOUR MARTINIZING**  
**2-0615-231**

TABLE 1 REGIONAL SCREENING LEVEL SUMMARY					
Sample No.	Small Commerical	VP-1		VP-2	
Sampling Date		09/02/16	01/30/17	09/02/16	01/30/17
Units (ug/m3)					
VOLATILE ORGANIC COMPOUNDS (VOC) (ug/m3)					
Benzene	530	8.58	0.800	<48.9	0.894
Carbon Tetrachloride	670	<1.23	<1.23	<123	<1.23
Chloroform	180	<0.930	<0.930	<93	<0.930
Chloromethane	13000	<0.374	0.739	<37.4	1.26
Dichlorodifluoromethane	15000	<0.989	1.38	<98.9	1.41
1,1 Dichloroethane	2600	<0.685	<0.685	<68.5	<0.685
1,2 Dichloroethane	160	<0.830	<0.830	<83	<0.830
1,1-Dichloroethene	29000	<0.646	<0.646	<64.6	<0.646
cis-1,2-Dichloroethene	NE	<0.515	<0.515	<51.5	<0.515
trans-1,2-Dichloroethene	NE	<0.614	<0.614	<61.4	<0.614
Ethylbenzene	1600	<b>4420</b>	4.52	313	2.13
Methylene Chloride	87000	12.7	<0.538	<53.8	<0.538
Methy Tert Butyl Ether	16000	<0.605	<0.605	196	<0.605
Naphthalene	120	4.37	<2.69	<269	<2.69
Tetrachloroethylene	6000	1.47	1.22	<113	<1.13
Toluene	730000	25.5	5.73	149	2.58
1,1,1-Trichloroethane	73000	<1.21	<1.21	<121	<1.21
Trichloroethylene	290	<0.975	<0.975	<97.5	<0.975
Trichlorofluoromethane	NE	1.3	1.36	<126	1.37
1,2,4-Trimethylbenzene	1000	16.8	7.64	<79	3.85
1,3,5-Trimethylbenzene	NE	3.58	1.57	<103	<1.03
Vinyl chloride	930	<0.389	<0.389	<38.9	<0.389
m&p-Xylene	15000	33.6	7.97	<137	3.32
o-Xylene	15000	18.2	3.62	<91.5	1.54

UG/M<sup>3</sup> - Micrograms per Cubic Meter of Air

Bold indicates analytical results exceed May 2016 USEPA Regional Sub-Slab Vapor Risk Screening Level



SCALE  
 VERTICAL: 1" = 10'  
 HORIZONTAL: 1" = 20'



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**GEOLOGIC CROSS - SECTION**  
**VLPE Site Investigation**  
**GB Real Estate Development, LLC**  
 1923 Main St.  
 City of Green Bay  
 Brown County, WI

**LEGEND**  
 MONITORING WELL LOCATION  
 PIEZOMETER LOCATION  
 SOIL BORING LOCATION

DRAWN BY: JCP  
 REVIEWED BY: LMB  
 ISSUE DATE: May 2018  
 GEC FILE NO.: 2-0615-231  
 SHEET NO.:

**FIGURE 5**

**TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
FORMER ONE HOUR MARTINIZING  
GEC PROJECT #2-0615-231**

Sample No. Sampling Date	NR 720 RCL	WDNR Non-Industrial RCL (Direct Contact)	WDNR Soil to Groundwater RCL	Background Threshold Value (mg/kg)	SS-1	SS-2	SS-3
					8/16/2016	8/16/2016	8/16/2016
Sample Depth (Inches)					0-4	0-4	0-4
<b>VOLATILE ORGANIC COMPOUNDS (VOCs) (µg/kg)</b>							
Benzene	1490	1490	5.1	NE	<16	<16	<16
cis 1,2-Dichloroethene	156000	156000	41.2	NE	<21	<21	<21
Ethylbenzene	7470	7470	1570	NE	<27	<27	<27
Methyl tert-butyl ether	59400	59400	27	NE	<25	<25	<25
Tetrachloroethene	30700	30700	4.5	NE	<54	<54	<54
Toluene	5300000	818000	1107	NE	<31	<31	<31
Trichloroethene	1260	1260	3.6	NE	<42	<42	<42
1,2,4-Trimethylbenzene	89800	89800	1382	NE	<78	<78	<78
1,3,5-Trimethylbenzene	782000	182000	1382	NE	<89	<89	<89
Xylenes, -m, -p	890000	258000	3940	NE	<70	<70	<70
Xylenes, -o					<29	<29	<29
<b>ROCKY METALS (RCRA) (mg/kg)</b>							
Mercury	14.7	3.13	0.208	NE	0.0118	0.0185	0.0138
Arsenic	0.613	0.613	0.584	8	2.95	3.00	3.43
Barium	15300	15300	164.8	364	38.7	55.2	42.1
Cadmium	70	70	0.752	1	0.28	0.247J	0.262
Chromium	NE	NE	360000	44	14.80	18.70	13.9
Lead	NE	400	27	52	12.50	10.50	7.38
Selenium	391	391	0.52	NE	<0.74	<0.74	<0.74
Silver	391	391	0.85	NE	<0.28	<0.28	<0.28

J = Analyte detected above laboratory limit of detection but below limit of quantitation.  
 Bold indicates analytical results exceed NR 720 RCL or generic RCL for direct contact or groundwater pathway  
 RCL = Residual Contaminant Level  
 SSL = Soil Screening Levels  
 DCL = Direct-Contact Levels  
 NA = Parameter not analyzed  
 NE = NR 720 RCL not established

**TABLE 3  
WATER LEVEL DATA  
GB REAL ESTATE INVESTMENTS, LLC**

Monitoring Well Number	Top of Well Casing Elevation	Date Measured	Utility Bottom Elevation (Ft.)	Depth to Water (Ft.)	Groundwater Elevation (Ft.)
MW-1	98.61	4/21/2016		2.77	95.84
MW-3	98.29	4/21/2016		5.63	92.66
MW-4	99.27	4/21/2016		3.61	95.66
MW-7	97.83	4/21/2016		3.71	94.12
MW-8	98.91	4/21/2016		2.75	96.16
TW-4	100.04	4/21/2016		3.40	96.64
TW-5	99.96	4/21/2016		3.51	96.45
MW-10	100.37	4/21/2016		3.35	97.02
MW-11	100.23	4/21/2016		3.23	97.00
MW-12	100.73	4/21/2016		3.02	97.71
MW-13	99.92	4/21/2016		2.14	97.78
MW-14	99.16	4/21/2016		2.71	96.45
Catch Basin 1	98.31	4/21/2016	92.71		
NW Pad Catch Basin	99.53	4/21/2016	95.38		

ft = feet

NR=Not recorded

Elevations in feet in reference to benchmark with an assumed elevation of 100 feet.



## DuFresne, Kristin I - DNR

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**From:** Matt Dahlem <mdahlem@fehr-graham.com>  
**Sent:** Thursday, November 30, 2017 10:58 AM  
**To:** DuFresne, Kristin I - DNR  
**Subject:** RE: Question: One Hour Martinizing - Main

This was from the VPLE investigation. This is the excerpt from Page 9 of GEC's VPLE SITE INVESTIGATION UPDATE AND CONSTRUCTION DOCUMENTATION REPORT. I don't think they mapped it but here was their rationale:

A groundwater sample was collected from an open utility excavation (W-1) located in the southwestern portion of the subject site on June 20, 2016. The sample was collected as a result of the excavation contractor (DeNoble Excavating) breaking an existing water line during replacement of a storm water manhole and storm water inlet tie-in. The sample was collected from the bottom of the excavation at a depth of about 7 feet and was collected for the purpose of evaluating groundwater quality within the utility trench. The clear stone around the piping was replaced subsequent to completing the water line repair and storm water manhole replacement. The sample was submitted for laboratory analysis for the presence of voes.

Does this work for ya Kristin?

Matt

**MATT DAHLEM, P.G.** | Project Manager / Sr. Engineering Hydrogeologist  
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**From:** DuFresne, Kristin I - DNR [mailto:Kristin.DuFresne@wisconsin.gov]  
**Sent:** Thursday, November 30, 2017 10:48 AM  
**To:** Matt Dahlem <mdahlem@fehr-graham.com>  
**Cc:** DuFresne, Kristin I - DNR <Kristin.DuFresne@wisconsin.gov>  
**Subject:** Question: One Hour Martinizing - Main

Hi Matt. One more question for you with respect to the One Hour Martinizing – Main closure request. On page 23 of Table A.1 there is a sample identified as W-1. What is this sample and where is it located?

Thank you in advance for your response?

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