EnviroSolutions

SENT via email to: egan.robert@epa.gov

July 15, 2014 – Amendments November 18, 2014

U.S. EPA Region 5
RCRA Programs Section (LR-8J)
Attention: Bob Egan
77 West Jackson Blvd.
Chicago, IL 60604-3590

RE: Groundwater Sampling Results (Groundwater Analytical Table amended)
Former Clark Station No. 823
203 North Mission Avenue
Mount Pleasant, Isabella County, Michigan
Confirmed Release No. C-2203-92

Dear Mr. Egan:

EnviroSolutions, Inc. (EnviroSolutions), on behalf of Premcor Refining Group, Inc. (Premcor) presents this summary of the groundwater sampling event completed at the above referenced site. Activities in the groundwater sampling event were completed as proposed in EnviroSolutions' May 2014 groundwater sampling plan. The method and results are discussed below.

EnviroSolutions personnel arrived at the former Clark Station #823 on June 5, 2014, and located each of the monitoring wells designated to be sampled. EnviroSolutions personnel opened each of the monitoring wells, allowed the water levels to equilibrate, gauged and recorded the depth to static groundwater.

EnviroSolutions personnel calibrated multi-parameter field instruments and turbidity meters. Then, using low-stress (low-flow) purging and sampling techniques, EnviroSolutions collected groundwater samples from monitoring wells RW-1S, MW-18, MW-16, MW-15, MW-28, MW-29, and MW-30. Groundwater sampling logs detailing the stabilization of low-flow parameters at each monitoring well are included as Attachment 1.

Quality assurance/quality control (QA/QC) samples were collected for the following: matrix spike/matrix spike duplicate, field duplicate, field blank, equipment blank, and trip blank. Locations and collection times for the QA/QC samples are included on the groundwater sampling logs. Groundwater samples were placed on ice and submitted to Pace Analytical Laboratories under chain of custody for analysis by EPA Method 8260 for benzene, toluene, ethylbenzene, xylenes, methyl-tert-butyl ether, naphthalene, 2-methylnaphthalene, 1,2,4 trimethylbenzene, and 1,3,5 trimethylbenzene.

Laboratory analytical results from the groundwater samples were below Michigan Department of Environmental Quality Risk Based Screening Limits (RBSLs) in all monitoring wells except MW-18. Summary tables of groundwater elevation data and groundwater analytical results are included as Attachment 2. Figures illustrating the groundwater elevation contours and groundwater analytical results are included as Attachment 3. Laboratory analytical results are included as Attachment 4.

Per our discussion, EnviroSolutions and Premcor would like to proceed with discussions regarding the appropriate language for the institutional control at the site and regulatory closure of the LUST release.

Please let me know if you require any additional information. I can be reached at **bkarban@envirosolutionsinc.net**. Thank you for your assistance.

Sincerely,
EnviroSolutions, Inc.

William J. Karban, LPG
Associate Geologist

Cc: Rick Draper, Premcor Refining Group, Inc.

Attachment:

1. Groundwater Sampling Logs, 6/2014
2. a. Static Groundwater Elevation Table, 6/2014
   b. Groundwater Analytical Table, 6/2014 – Amended 10/2014
3. a. Groundwater Contour Map, 6/2014
   b. Groundwater Analytical Map, 6/2014
4. Laboratory Analytical Results, 6/2014

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: PRCM COK 123	PROJECT #:
SITE LOCATION:	DATE: 6/5/14
WEATHER:	

WELL DATA	PURGE DATA
WELL I.D.: RW-15	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME:
WELL DIAMETER (IN.): 2"	PUMP START TIME: 9:22
WELL DEPTH:	PUMP END TIME: 10:00
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER: 9.21	WATER METER #: MP-20 / PUMP #: Grundfos

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (~~uS/cm~~) +/- 3% (mS/cm)	D.O. (mg/L) +/- 10% ✓	pH +/- 0.1 ✓	ORP (mv) +/- 10mV ✓	FLOW RATE 100-500 ml/m ✓	TURBIDITY (NTU) I 10% or <5 ✓	NOTES
9:27	9.19						~~[illegible]~~		
9:28	9.21						120 mL/min		
9:31	9.21	13.58	3.19	0.52	6.83	-41	120		
9:34	9.22	13.38	3.19	0.40	6.86	-41	120	9.94	
9:37	9.22	13.37	3.16	0.38	6.88	-41	120	8.05	
9:40	9.22	13.31	3.11	0.35	6.91	-38	120	6.78	
9:43	"	13.32	3.08	0.33	6.92	-35	120	5.28	
9:46	"	13.32	3.02	0.31	6.94	-43	120	5.44	
9:49	"	13.29	2.98	0.31	6.96	-48	"	3.68	
9:52		13.30	2.97	0.31	6.97	-50	"	3.50	

SAMPLE TIME: 9:57	DUPLICATE SAMPLE (y/n): MS/MSD
SAMPLE PARAMETERS: VOCs	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 6	
SAMPLE BOTTLES COLLECTED: 6	

COMMENTS

PURGE DESCRIPTION: COLOR: N	ODOR: N
SAMPLE DESCRIPTION: COLOR: N	ODOR: N
PURGE FLOW RATE: 130	PURGED DRY (y/n): N
OTHER OBSERVATIONS:	

J:\Forms Procedures and Inventory\Forms\FIELD\Well Sampling Log (with Turbidity)

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: 825	PROJECT #:
SITE LOCATION:	DATE: 6/5/14
WEATHER:	

WELL DATA	PURGE DATA
WELL I.D.: MW-14	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME: 10.0
WELL DIAMETER (IN.): 2"	PUMP START TIME: ~~10:3~~ 10:02
WELL DEPTH: 9.29	PUMP END TIME: 10:33
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER:	WATER METER #: A6-20 PUMP #: GEOPUMP

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
10:03	9.29						120		
10:06	9.45						120		
10:09	9.46						120		
10:12	9.46						120		
10:15	"	14.22	2.84	0.16	6.89	-113	120	6.69	
10:18	"	13.44	2.75	0.17	6.90	-115	120	4.45	
10:21	"	17.84	2.81	0.17	6.92	-118	120	3.80	
10:24	"	13.85	2.85	0.16	6.97	-122	120	4.54	
10:27	"	13.85	2.85	0.16	6.96	-125	120	3.08	

SAMPLE TIME: 10:30	DUPLICATE SAMPLE (y/n): Y
SAMPLE PARAMETERS: VOCs	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 6	
SAMPLE BOTTLES COLLECTED: 6	

COMMENTS

PURGE DESCRIPTION: COLOR: Y	ODOR: Y
SAMPLE DESCRIPTION: COLOR: Y	ODOR: Y
PURGE FLOW RATE: 120	PURGED DRY (y/n): N
OTHER OBSERVATIONS:	

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: RZ
PROJECT #:
SITE LOCATION:
DATE: 6/5/19
WEATHER:

WELL DATA	PURGE DATA
WELL I.D.: MW-30	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME:
WELL DIAMETER (IN.): 2"	PUMP START TIME: 10:38
WELL DEPTH:	PUMP END TIME: 11:07
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER: 9.38	WATER METER #: M-20 PUMP #: 660

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
10:40	9.34								
10:43	9.34								
10:46	9.34	14.44	2.30	0.72	6.91	-27	120	11.8	
10:49	9.37	11.47	2.21	0.58	6.91	-41	120	12.2	
10:52	"	14.04	2.12	0.68	6.98	-49	120	8.22	
10:55	9.42	13.99	2.14	0.58	6.94	-52	120	7.11	
10:58	9.42	14.01	2.12	0.56	6.94	-54	120	7.11	
11:01	9.42	13.98	2.11	0.55	6.95	-57	120	6.97	

SAMPLE TIME: 11:03
DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOC.
EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 2
SAMPLE BOTTLES COLLECTED: 2

COMMENTS

PURGE DESCRIPTION: COLOR: NO ODOR: NO
SAMPLE DESCRIPTION: COLOR: NO ODOR: NO
PURGE FLOW RATE: 120
PURGED DRY (y/n): N
OTHER OBSERVATIONS:

J:\Forms Procedures and Inventory\Forms\FIELD\Well Sampling Log (with Turbidity)

EnviroSolutions, Inc. 38115 Abruzzi Drive Westland, MI 48185 (734) 641-2700	**WELL SAMPLING LOG**

PROJECT NAME:	**PROJECT #:**
SITE LOCATION:	DATE:
WEATHER:	

WELL DATA	PURGE DATA	
WELL I.D.: MW-10	LENGTH OF WATER COLUMN:	
CASING MATERIAL: PVC	WELL VOLUME:	
WELL DIAMETER (IN.): 2"	PUMP START TIME: 11:08	
WELL DEPTH:	PUMP END TIME:	
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow	
DEPTH TO WATER: 9.32	WATER METER #: M-20	PUMP #: GEO PUMP

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
11:10	9.32						125		
11:13	9.32						125		
11:16	"	12.87	3.72	0.52	7.08	-58	"	4.53	
11:20	"	12.84	3.72	0.47	7.08	-59	"	3.03	
11:23	"	12.76	3.72	0.39	7.08	-58	"	4.24	
11:26	"	12.79	3.72	0.34	7.08	-57	"	3.61	
11:29	"	12.77	3.72	0.32	7.07	-56	"	2.89	
11:32	"	12.74	3.73	0.32	7.08	-55	"	2.84	

SAMPLE TIME: 11:35	DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 2	
SAMPLE BOTTLES COLLECTED: 2	

COMMENTS

PURGE DESCRIPTION:	COLOR: N	ODOR: N
SAMPLE DESCRIPTION:	COLOR: N	ODOR: N
PURGE FLOW RATE: 120	PURGED DRY (y/n): N	
OTHER OBSERVATIONS:		

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: 825	PROJECT #:
SITE LOCATION:	DATE:
WEATHER:	

WELL DATA	PURGE DATA
WELL I.D.: MW-15	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME:
WELL DIAMETER (IN.): 2"	PUMP START TIME: 11:36
WELL DEPTH:	PUMP END TIME: 12:06
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER: 9.38	WATER METER #: N/A PUMP #: 660

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
11:37	9.38						125		
11:40	9.38	13.76	2.64	0.49	7.08	-45	125	47	
11:43	"	13.78	2.52	0.38	7.04	-46	125	37	
11:46	"	13.77	2.48	0.34	7.04	-47	"	24	
11:49	"	13.76	2.46	0.31	7.08	-49	"	17	
11:53	9.42	13.75	2.45	0.30	7.08	-44	"	8.88	
11:56	"	13.74	2.45	0.27	7.08	-49	"	6.30	
11:59		13.76	2.44	0.27	7.04	-48	"	4.42	
[illegible]									

SAMPLE TIME: 12:05	DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 2	
SAMPLE BOTTLES COLLECTED: 2	

COMMENTS

PURGE DESCRIPTION:	COLOR: N	ODOR: N
SAMPLE DESCRIPTION:	COLOR: N	ODOR: N
PURGE FLOW RATE: 125	PURGED DRY (y/n): N	
OTHER OBSERVATIONS:		

J:\Forms Procedures and Inventory\Forms\FIELD\Well Sampling Log (with Turbidity)

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: SCS	PROJECT #:
SITE LOCATION:	DATE:
WEATHER:	

WELL DATA	PURGE DATA
WELL I.D.: MW-28	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME:
WELL DIAMETER (IN.): 2"	PUMP START TIME: 12:10
WELL DEPTH:	PUMP END TIME: 13:37
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER: 9.73	WATER METER #: M-20 PUMP #: 660

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
12:10	9.73						125		
12:13	"	13.10	2.49	3.62	7.07	36	125	79	
12:16	"	13.14	2.45	3.21	7.04	34	125	~47	
12:19	"	13.12	3.12	3.11	7.02	31	125	16.4	
12:22	"	13.14	2.41	2.87	7.01	29	"	8.4	
12:25	"	13.21	2.39	2.63	7.01	25	"	2.61	
12:28		13.20	2.31	2.62	6.99	22		9.17	
12:31		13.21	2.35	2.62	6.99	18	"	4.71	

SAMPLE TIME: 12:35	DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 2	
SAMPLE BOTTLES COLLECTED: 2	

COMMENTS

PURGE DESCRIPTION:	COLOR: N	ODOR: N
SAMPLE DESCRIPTION:	COLOR: N	ODOR: N
PURGE FLOW RATE: 125		PURGED DRY (y/n): N
OTHER OBSERVATIONS:		

EnviroSolutions, Inc.
38115 Abruzzi Drive
Westland, MI 48185
(734) 641-2700

WELL SAMPLING LOG

PROJECT NAME: 823	PROJECT #:
SITE LOCATION:	DATE: 6/5/19
WEATHER:	

WELL DATA	PURGE DATA
WELL I.D.: MW-25	LENGTH OF WATER COLUMN:
CASING MATERIAL: PVC	WELL VOLUME:
WELL DIAMETER (IN.): 2"	PUMP START TIME: 12:42
WELL DEPTH:	PUMP END TIME: 13:20
DEPTH TO PRODUCT: N/A	PURGE METHOD: Low Flow
DEPTH TO WATER: 9.63	WATER METER #: M-20 / PUMP #: 660

VOLUME CONVERSION FACTOR (ltr/ft): 0.15 - 1" 0.61 - 2" 2.46 - 4" 5.56 - 6" 9.88 - 8"

STABILIZATION PARAMETERS

TIME	DTW (feet below TOC) <0.3'	TEMP (deg C)	COND (uS/cm) +/- 3%	D.O. (mg/L) +/- 10%	pH +/- 0.1	ORP (mv) +/- 10mV	FLOW RATE 100-500 ml	TURBIDITY (NTU)	NOTES
12:43	9.63						125		
12:46	9.63						125		
12:49	9.63	12.83	2.06	1.96	7.17	46	125	13.7	
12:52	"	12.82	2.07	1.69	7.16	49	"	9.57	
12:55	"	12.83	2.10	1.58	7.14	52	"	10.5	
12:58	"	12.16	2.10	1.48	7.14	54	"	10.5	
13:01	"	12.15	2.11	1.38	7.14	55	"	6.17	
13:03	"	12.06	2.12	1.25	7.14	56	"	6.41	
13:06	"	12.06	2.13	1.22	7.13	58	"	10.2	
13:09	"	12.08	2.13	1.17	7.11	59	"	8.18	
13:12	"	12:04	2.13	1.06	7.12	60	"	6.12	
13:15	"	12:09	2.17	0.93	7.11	60	"	5.20	
13:18	"	12.11	2.12	0.86	7.11	61	"	4.73	
13:21	"	12.05	2.17	0.85	7.11	62	"	5.07	

SAMPLE TIME: 13:20	DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOC	EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED:	
SAMPLE BOTTLES COLLECTED:	

COMMENTS

PURGE DESCRIPTION:	COLOR: N	ODOR: N	
SAMPLE DESCRIPTION:	COLOR: N	ODOR: N	
PURGE FLOW RATE: 125		PURGED DRY (y/n): N	
OTHER OBSERVATIONS:			

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-1	5/25/1993		ND	--	0.00	--	10-15'
	12/1/1994		ND	--	0.00	--	2"
	1/5/1995		ND	--	0.00	--	
	2/2/1995		ND	--	0.00	--	
	7/11/1995		ND	10.99	0.00	87.18	
	10/11/1995		ND	11.43	0.00	86.74	
	1/10/1996		ND	11.55	0.00	86.62	
	4/11/1996		ND	11.34	0.00	86.83	
	10/11/1996	98.17	ND	10.93	0.00	87.24	
	1/20/1997		ND	10.92	0.00	87.25	
	4/8/1997		ND	10.01	0.00	88.16	
	7/10/1997		ND	10.41	0.00	87.76	
	1/20/1998		ND	11.14	0.00	87.03	
	4/21/1998		ND	9.93	0.00	88.24	
	7/1/1998		ND	10.57	0.00	87.60	
	10/7/1998		ND	11.02	0.00	87.15	
	10/10/1999		ND	Well destroyed			
MW-2	05/25/93	--	ND	--	--	--	10-15'
	10/10/99		ND	Destroyed During Widening of Mission Avenue			2"
	05/17/07		ND	9.37	0.00	88.81	
	09/24/07		ND	10.33	0.00	87.77	
	12/06/07		ND	10.80	0.00	87.3	
	08/20/08		ND	10.02	0.00	88.18	
MW-3	05/25/93		ND	--	0.00	--	10-15'
	2/2/1995*		ND	--	0.00	--	2"
	07/11/95		ND	10.42	0.00	87.26	
	10/11/95		ND	10.89	0.00	86.79	
	01/10/96		ND	11.00	0.00	86.68	
	04/11/96		ND	10.77	0.00	86.91	
	10/11/96		ND	10.37	0.00	87.31	
	01/20/97	97.68	ND	Not Sampled Under Snow Pile			
	04/08/97		ND	10.46	0.00	87.22	
	07/10/97		ND	9.84	0.00	87.84	
	01/20/98		ND	10.58	0.00	87.10	
	04/21/98		ND	9.37	0.00	88.31	
	07/01/98		ND	10.01	0.00	87.67	
	10/07/98		ND	10.16	0.00	87.52	
	10/10/99		ND	Destroyed with new Subway building			

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-4**	05/25/93	98.23	ND	--	0.00	--	10-15'
	07/11/95		ND	11.46	0.00	86.77	2"
**New Top of Casing as of February 1997	10/11/95		ND	11.92	0.00	86.31	
	01/10/96		ND	12.04	0.00	86.19	
	04/11/96		ND	11.84	0.00	86.39	
	10/11/96		ND	11.41	0.00	86.82	
	01/20/97		ND	11.42	0.00	86.81	
	04/08/97		ND	10.51	0.00	87.72	
	07/10/97		ND	10.91	0.00	87.32	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-5	12/16/93	98.36	ND	--	0.00	--	28-33'
	07/11/95		ND	11.19	0.00	87.17	2"
	10/11/95		ND	11.64	0.00	86.72	
	01/10/96		ND	11.76	0.00	86.60	
	04/11/96		ND	11.55	0.00	86.81	
	10/11/96		ND	11.13	0.00	87.23	
	01/20/97		ND	11.15	0.00	87.21	
	04/08/97		ND	10.22	0.00	88.14	
	07/10/97		ND	10.61	0.00	87.75	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-6	12/16/93	97.84	ND	--	0.00	--	9-14'
	07/11/95		ND	10.63	0.00	87.21	2"
	10/11/95		ND	11.10	0.00	86.74	
	01/10/96		ND	11.22	0.00	86.62	
	04/11/96		ND	11.01	0.00	86.83	
	10/11/96		ND	10.57	0.00	87.27	
	01/20/97		ND	10.55	0.00	87.29	
	04/08/97		ND	9.59	0.00	88.25	
	07/10/97		ND	10.05	0.00	87.79	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-7	12/16/93	98.39	ND	--	0.00	--	8-13'
	07/11/95		ND	11.23	0.00	87.16	2"
	10/11/95		ND	11.72	0.00	86.67	
	10/11/96		ND	11.21	0.00	87.18	
	01/26/97		ND	11.24	0.00	87.15	
	04/08/97		ND	10.33	0.00	88.06	
	07/10/97		ND	10.71	0.00	87.68	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-8	12/01/94	98.66	ND	--	0.00	--	12-17'
	01/05/95		ND	--	0.00	--	2"
	02/02/95		ND	--	0.00	--	
	07/11/95		ND	11.41	0.00	87.25	
	10/11/95		ND	11.92	0.00	86.74	
	01/10/96		ND	12.02	0.00	86.64	
	04/11/96		ND	11.82	0.00	86.84	
	10/11/96		ND	11.40	0.00	87.26	
	01/20/97		ND	11.37	0.00	87.29	
	04/08/97		ND	10.48	0.00	88.18	
	07/10/97		ND	10.89	0.00	87.77	
	01/20/98		ND	11.62	0.00	87.04	
	04/21/98		ND	10.41	0.00	88.25	
	07/01/98		ND	11.04	0.00	87.62	
	10/07/98		ND	11.50	0.00	87.16	
	10/10/99		ND	Wells destroyed by new Subway building.			

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-11	12/01/94	98.33	ND	--	0.00	--	12-17' 2"
	01/05/95		ND	--	0.00	--	
	02/02/95		ND	--	0.00	--	
	07/11/95		ND	11.10	0.00	87.23	
	10/11/95		ND	11.57	0.00	86.76	
	01/10/96		ND	11.69	0.00	86.64	
	04/11/96		ND	11.46	0.00	86.87	
	10/11/96		ND	11.05	0.00	87.28	
	01/20/97		ND	11.02	0.00	87.31	
	04/08/97		ND	10.14	0.00	88.19	
	07/10/97		ND	10.53	0.00	87.80	
	01/20/98		ND	11.27	0.00	87.06	
	04/21/98		ND	10.05	0.00	88.28	
	07/01/98		ND	10.69	0.00	87.64	
	10/07/98		ND	11.14	0.00	87.19	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-12	10/11/96	97.84	ND	--	0.00	--	12-17' 2"
	01/20/97		ND	Not Sampled Under Snow Pile			
	04/08/97		ND	9.76	0.00	88.08	
	07/10/97		ND	10.14	0.00	87.70	
	01/20/98		ND	10.88	0.00	86.96	
	04/21/98		ND	9.67	0.00	88.17	
	07/01/98		ND	10.30	0.00	87.54	
	10/07/98		ND	10.77	0.00	87.07	
	10/10/99		ND	Wells destroyed by new Subway building.			
MW-15	03/20/00	97.31	ND	10.75	0.00	86.56	10.5-15.5' 2"
	07/20/00		ND	10.62	0.00	86.69	
	10/17/00		ND	10.84	0.00	86.47	
	12/20/00		ND	11.22	0.00	86.09	
	03/09/01		ND	10.88	0.00	86.43	
	05/21/01		ND	10.38	0.00	86.93	
	02/15/02		ND	10.53	0.00	86.78	
	05/23/02		ND	9.60	0.00	87.71	
	09/10/02		ND	10.21	0.00	87.10	
	12/05/02		ND	10.72	0.00	86.59	
	03/21/03		ND	11.48	0.00	85.83	
	06/19/03		ND	10.60	0.00	86.71	
	10/15/03		ND	10.72	0.00	86.59	
	01/30/04		ND	11.26	0.00	86.05	
	05/25/04		ND	9.84	0.00	87.47	
	07/29/04		ND	10.08	0.00	87.23	
	02/08/06		ND	10.10	0.00	87.21	
	04/20/06		ND	9.45	0.00	87.86	
	10/03/06		ND	10.41	0.00	86.90	
	02/14/07		ND	10.16	0.00	87.15	
	05/17/07		ND	9.65	0.00	87.66	
	09/24/07		ND	10.65	0.00	86.66	
	12/06/07		ND	11.03	0.00	86.28	
	08/20/08		ND	10.27	0.00	87.04	
	06/05/14		ND	9.39	0.00	87.92	

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-16	03/20/00		ND	10.86	0.00	86.39	12-17'
	07/20/00		ND	10.53	0.00	86.72	2"
	10/17/00		ND	10.75	0.00	86.50	
	12/20/00		ND	11.13	0.00	86.12	
	03/09/01		ND	10.80	0.00	86.45	
	05/21/01		ND	10.30	0.00	86.95	
	02/15/02		ND	10.43	0.00	86.82	
	05/23/02		ND	9.52	0.00	87.73	
	09/10/02	97.25	ND	10.11	0.00	87.14	
	12/05/02		ND	10.76	0.00	86.49	
	03/21/03		ND	11.40	0.00	85.85	
	06/19/03		ND	10.51	0.00	86.74	
	10/15/03		ND	11.24	0.00	86.01	
	01/30/04		ND	11.18	0.00	86.07	
	05/22/04		ND	9.76	0.00	87.49	
	07/29/04		ND	10.00	0.00	87.25	
	02/08/06		ND	10.02	0.00	87.23	
	04/20/06		ND	9.42	0.00	87.83	
	10/03/06		ND	10.33	0.00	86.92	
	02/14/07		ND	10.10	0.00	87.15	
	05/17/07		ND	9.57	0.00	87.68	
	09/24/07		ND	10.47	0.00	86.78	
	12/06/07		ND	10.94	0.00	86.31	
	08/20/08		ND	10.20	0.00	87.05	
	06/05/14		ND	9.33	0.00	87.92	
MW-17	03/20/00		ND	10.96	0.00	86.40	12-17'
	07/20/00		ND	10.64	0.00	86.72	2"
	10/17/00		ND	10.85	0.00	86.51	
	12/20/00		ND	11.25	0.00	86.11	
	03/09/01		ND	10.90	0.00	86.46	
	05/21/01		ND	10.37	0.00	86.99	
	02/15/02		ND	10.55	0.00	86.81	
	05/23/02		ND	9.61	0.00	87.75	
	09/10/02	97.36	ND	10.21	0.00	87.15	
	12/05/02		ND	10.81	0.00	86.55	
	03/21/03		ND	11.50	0.00	85.86	
	06/19/03		ND	10.61	0.00	86.75	
	10/15/03		ND	11.25	0.00	86.11	
	01/30/04		ND	11.27	0.00	86.09	
	05/22/04		ND	9.81	0.00	87.55	
	07/29/04		ND	10.09	0.00	87.27	
	02/08/06		ND	10.12	0.00	87.24	
	04/20/06		ND	9.46	0.00	87.90	
	10/03/06		ND	10.43	0.00	86.93	
	02/14/07		ND	10.18	0.00	87.18	
	05/17/07		ND	9.65	0.00	87.71	
	09/24/07		ND	10.57	0.00	86.79	
	12/06/07		ND	11.04	0.00	86.32	
	08/20/08		ND	10.25	0.00	87.11	

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-18	03/20/00		ND	10.90	0.00	86.43	10.5-15.5'
	07/20/00		ND	10.57	0.00	86.76	2"
	10/17/00		ND	10.78	0.00	86.55	
	12/20/00		ND	11.18	0.00	86.15	
	03/09/01		ND	10.82	0.00	86.51	
	05/21/01		ND	10.34	0.00	86.99	
	02/15/02		ND	10.48	0.00	86.85	
	05/23/02		ND	9.56	0.00	87.77	
	09/10/02	97.33	ND	10.14	0.00	87.19	
	12/05/02		ND	10.70	0.00	86.63	
	03/21/03		ND	11.43	0.00	85.90	
	06/19/03		ND	10.56	0.00	86.77	
	10/15/03		ND	11.30	0.00	86.03	
	01/30/04		ND	11.23	0.00	86.10	
	05/22/04		ND	9.77	0.00	87.56	
	07/29/04		ND	10.03	0.00	87.30	
	02/08/06		ND	10.04	0.00	87.29	
	04/20/06		ND	9.39	0.00	87.94	
	10/03/06		ND	10.36	0.00	86.97	
	02/14/07		ND	10.12	0.00	87.21	
	05/17/07		ND	9.59	0.00	87.74	
	09/24/07		ND	10.51	0.00	86.82	
	12/06/07		ND	10.97	0.00	86.36	
	08/20/08		ND	10.22	0.00	87.11	
	06/05/14		ND	9.30	0.00	88.03	
MW-19	03/20/00		ND	11.32	0.00	86.47	11-16'
	07/20/00		ND	10.99	0.00	86.80	2"
	10/17/00		ND	11.21	0.00	86.58	
	12/20/00		ND	11.61	0.00	86.18	
	03/09/01		ND	11.26	0.00	86.53	
	05/21/01		ND	10.74	0.00	87.05	
	02/15/02		ND	10.91	0.00	86.88	
	05/23/02		ND	9.99	0.00	87.80	
	09/10/02	97.79	ND	10.59	0.00	87.20	
	12/05/02		ND	11.18	0.00	86.61	
	03/21/03		ND	11.88	0.00	85.91	
	06/19/03		ND	10.98	0.00	86.81	
	10/15/03		ND	11.72	0.00	86.07	
	01/30/04		ND	11.66	0.00	86.13	
	05/22/04		ND	10.18	0.00	87.61	
	07/29/04		ND	10.45	0.00	87.34	
	02/08/06		ND	10.46	0.00	87.33	
	04/20/06		ND	9.82	0.00	87.97	
	10/03/06		ND	10.78	0.00	87.01	
	02/14/07		ND	10.55	0.00	87.24	
	05/17/07		ND	10.01	0.00	87.78	
	09/24/07		ND	10.94	0.00	86.85	
	12/06/07		ND	11.42	0.00	86.37	
	08/20/08		ND	10.62	0.00	87.17	
MW-20	03/20/00		ND	11.45	0.00	86.35	12-17'
	07/20/00		ND	11.11	0.00	86.69	2"
	10/17/00		ND	11.34	0.00	86.46	
	12/20/00		ND	11.71	0.00	86.09	
	03/09/01		ND	11.38	0.00	86.42	
	05/21/01		ND	10.88	0.00	86.92	
	02/15/02		ND	11.02	0.00	86.78	
	05/23/02		ND	10.10	0.00	87.70	
	09/10/02	97.80	ND	10.71	0.00	87.09	
	12/05/02		ND	11.27	0.00	86.53	
	03/21/03		ND	11.97	0.00	85.83	
	06/19/03		ND	11.09	0.00	86.71	
	10/15/03		ND	11.83	0.00	85.97	
	01/30/04		ND	11.79	0.00	86.01	
	05/22/04		ND	10.38	0.00	87.42	
	07/29/04		ND	10.60	0.00	87.20	
	02/08/06		ND	10.69	0.00	87.11	
	04/20/06		ND	10.01	0.00	87.79	
	10/03/06	97.89	ND	10.98	0.00	86.91	
	02/14/07		ND	10.77	0.00	87.12	
	05/17/07		ND	10.25	0.00	87.64	
	09/24/07		ND	11.15	0.00	86.74	
	12/06/07		ND	11.62	0.00	86.27	
	08/20/08		ND	10.85	0.00	87.04	

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth (feet bgs) & Diameter
		(feet)	(feet below TOC)		(feet)		
MW-20D	10/03/06	97.77	ND	10.88	0.00	86.89	25-30'
	02/14/07		ND	10.64	0.00	87.13	2"
	05/17/07		ND	10.11	0.00	87.66	
	09/24/07		ND	11.03	0.00	86.74	
	12/06/07		ND	11.48	0.00	86.29	
	08/20/08		ND	10.72	0.00	87.05	
MW-28	02/15/02		ND	10.87	0.00	86.84	9-14'
	05/23/02		ND	9.95	0.00	87.76	2"
	09/10/02		ND	10.56	0.00	87.15	
	12/05/02		ND	11.12	0.00	86.59	
	03/21/03		ND	11.81	0.00	85.90	
	06/19/03	97.71	ND	10.94	0.00	86.77	
	10/15/03		ND	11.66	0.00	86.05	
	01/30/04		ND	11.58	0.00	86.13	
	05/22/04		ND	10.20	0.00	87.51	
	07/29/04		ND	10.42	0.00	87.29	
	02/08/06		ND	10.48	0.00	87.23	
	04/20/06		ND	9.83	0.00	87.88	
	02/14/07		ND	10.50	0.00	87.21	
	05/17/07		ND	9.99	0.00	87.72	
	09/24/07		ND	10.89	0.00	86.82	
	12/06/07		ND	11.36	0.00	86.35	
	08/20/08		ND	10.60	0.00	87.11	
	06/05/14		ND	9.74	0.00	87.97	
MW-29	02/15/02		ND	10.76	0.00	86.77	10-15'
	05/23/02		ND	9.84	0.00	87.69	2"
	09/10/02		ND	10.48	0.00	87.05	
	12/05/02		ND	11.03	0.00	86.50	
	03/21/03	97.53	ND	11.71	0.00	85.82	
	06/19/03		ND	10.84	0.00	86.69	
	10/15/03		ND	11.57	0.00	85.96	
	01/30/04		ND	11.50	0.00	86.03	
	05/22/04		ND	10.11	0.00	87.42	
	07/29/04		ND	10.33	0.00	87.20	
	04/20/06		ND	9.73	0.00	87.80	
	02/14/07		ND	10.41	0.00	87.12	
	05/17/07		ND	9.90	0.00	87.63	
	09/24/07		ND	10.81	0.00	86.72	
	12/06/07		ND	11.25	0.00	86.28	
	08/20/08		ND	10.51	0.00	87.02	
	06/05/14		ND	9.64	0.00	87.89	
MW-30	10/03/06	97.41	ND	10.43	0.00	86.98	8-13'
	02/14/07		ND	10.26	0.00	87.15	2"
	05/17/07		ND	9.67	0.00	87.74	
	09/24/07		ND	10.59	0.00	86.82	
	12/06/07		ND	11.07	0.00	86.34	
	08/20/08		ND	10.30	0.00	87.11	
	06/05/14		ND	9.41	0.00	88.00	
MW-31	10/03/06	97.67	ND	10.70	0.00	86.97	9-14'
	02/14/07		ND	10.47	0.00	87.20	2"
	05/17/07		ND	9.95	0.00	87.72	
	09/24/07		ND	10.85	0.00	86.82	
	12/06/07		ND	11.32	0.00	86.35	
	08/20/08		ND	10.57	0.00	87.10	

TABLE 1 - GROUNDWATER ELEVATION DATA

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

Well	Date	TOC Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Water Elevation	Screen Depth *(feet bgs)* & Diameter
		(feet)	*(feet below TOC)*		*(feet)*		
RW-1D	10/03/06	97.23	ND	10.27	0.00	86.96	27-30'
	02/14/07		ND	10.00	0.00	87.23	2"
	05/17/07		ND	9.52	0.00	87.71	
	09/24/07		ND	10.45	0.00	86.78	
	12/06/07		ND	10.89	0.00	86.34	
	08/20/08		ND	10.18	0.00	87.05	
RW-1S	10/03/06	97.19	ND	10.26	0.00	86.93	6-16'
	02/14/07		ND	10.04	0.00	87.15	2"
	05/17/07		ND	9.48	0.00	87.71	
	09/24/07		ND	10.40	0.00	86.79	
	12/06/07		ND	10.86	0.00	86.33	
	08/20/08		ND	10.10	0.00	87.09	
	06/05/14		ND	9.21	0.00	87.98	
MW-32	2/14/2007	97.65	ND	10.51	0.00	87.14	7.25-12.25'
	5/17/2007		ND	9.98	0.00	87.68	2"
	12/6/2007		ND	11.34	0.00	86.31	
	8/20/2008		ND	10.6	0.00	87.05	

ND - Not detected

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-1	5/25/1993		350	18	58	660	--	--	--	--	--
	12/1/1994		542	188	304	1,260	--	--	--	--	--
	1/5/1995		187	74	65.3	179	--	--	--	--	--
	2/2/1995		42	6	16	32.6	--	--	--	--	--
	7/11/1995		179	17.8		182	<50	--	--	--	--
	10/11/1995		349	70.2	109	841	--	--	--	--	--
	1/10/1996		284	40.1	246	833	--	--	--	--	--
	4/11/1996		193	11.9	87.2	144	--	--	--	--	--
	10/11/1996		89	1.2	47.7	3	--	--	--	--	--
	1/20/1997		161	35	160	529	<50	--	--	--	--
	4/8/1997		1.8	<1	2.3	<3	--	--	--	--	--
	7/10/1997		<1	<1	<1	<3	--	--	--	--	--
	1/20/1998		200	38	210	530	--	--	--	--	--
	4/21/1998		<1	<1	<1	<3	<50	--	--	--	--
	7/1/1998		<1	<1	<1	<3	<50	<1	<1	<5	<10
	10/7/1998		65	17	88	72.5	<1	30	1.2	5.6	<5
	10/10/1999		Wells destroyed by new Subway building.								
MW-2	05/25/93		<1	<1	<1	<3	--	--	--	--	--
	10/10/99		Destroyed during widening of Mission Ave								
	05/17/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/24/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/06/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-3	05/25/93		<1	<1	<1	<3	--	--	--	--	--
	2/2/1995*		79.6	2.1	<1	15.3		--	--	--	--
	07/11/95		113	<1	1.9	3.5	<50	--	--	--	--
	10/11/95		79.1	1.6	<1	11.5	--	--	--	--	--
	01/10/96		116	4.3	<1	9.3	--	--	--	--	--
	04/11/96		143	2.4	<1	15.1	--	--	--	--	--
	10/11/96		173	5.9	<1	2.4	--	--	--	--	--
	01/20/97		Not Sampled Under Snow Pile								
	04/08/97		27	<1	<1	<3	--		--	--	--
	07/10/97		143	2.7	1.5	<3	--	--	--	--	--
	01/20/98		87	2	<1	11	--	--	--	--	--
	04/21/98		110	<1	<1	<3	<50	--	--	--	--
	07/01/98		110	1	<1	<3	<50	6	<1	<5	<10
	10/07/98		100	9.5	1.5	19.2	<1	8.6	<1	3.6	<5
	10/10/99		Wells destroyed by new Subway building.								
MW-4**	05/25/93		<1	<1	<1	<3	--	--	--	--	--
	07/11/95		<1	<1	<1	<3	<50	--	--	--	--
**New Top of Casing as of February 1997	10/11/95		1.0	<1	<1	<3	--	--	--	--	--
	01/10/96		<1	<1	<1	<3	--	--	--	--	--
	04/11/96		<1	<1	<1	<3	--	--	--	--	--
	10/11/96		<1	<1	<1	<3	--	--	--	--	--
	01/20/97		<1	<1	<1	<3	<50	--	--	--	--
	04/08/97		<1	<1	<1	<3	--	--	--	--	--
	07/10/97		<1	<1	<1	<3	--	--	--	--	--
	10/10/99		Wells destroyed by new Subway building.								

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-5	12/16/93		<1	<1	<1	<3	<50	--	--	--	--
	07/11/95		<1	<1	<1	<3	<50	--	--	--	--
	10/11/95		<1	<1	<1	<3	--	--	--	--	--
	01/10/96		<1	<1	<1	<3	--	--	--	--	--
	04/11/96		<1	<1	<1	<3	--	--	--	--	--
	10/11/96		<1	<1	<1	<3	--	--	--	--	--
	01/20/97		<1	<1	<1	<3	<50	--	--	--	--
	04/08/97		<1	<1	<1	<3	--	--	--	--	--
	07/10/97		<1	<1	<1	<3	--	--	--	--	--
	10/10/99		Wells destroyed by new Subway building.								
MW-6	12/16/93		<1	<1	<1	<3	<50	--	--	--	--
	07/11/95		<1	<1	<1	<3	<50	--	--	--	--
	10/11/95		<1	<1	<1	<3	--	--	--	--	--
	01/10/96		<1	<1	<1	<3	--	--	--	--	--
	04/11/96		<1	<1	<1	<3	--	--	--	--	--
	10/11/96		<1	<1	<1	<3	--	--	--	--	--
	01/20/97		<1	<1	<1	<3	<50	--	--	--	--
	04/08/97		<1	<1	<1	<3	--	--	--	--	--
	07/10/97		<1	<1	<1	<3	--	--	--	--	--
	10/10/99		Wells destroyed by new Subway building.								

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-7	12/16/93		<1	<1	<1	<3	<50	--	--	--	--
	07/11/95		<1	<1	<1	<3	<50	--	--	--	--
	10/11/95		<1	<1	<1	<3	--	--	--	--	--
	10/11/96		<1	<1	<1	<3	<50	--	--	--	--
	01/26/97		<1	<1	<1	<3	--	--	--	--	--
	04/08/97		<1	<1	<1	<3	--	--	--	--	--
	07/10/97		<1	<1	<1	<3	--	--	--	--	--
	10/10/99		Wells destroyed by new Subway building.								
MW-8	12/01/94		594	88.5	764	3,690	--	--	--	--	--
	01/05/95		356	80.2	735	2,660	--	--	--	--	--
	02/02/95		288	77.9	525	1,610	--	--	--	--	--
	07/11/95		181	13.1	40.3	147	<50	--	--	--	--
	10/11/95		237	72.3	143	367	--	--	--	--	--
	01/10/96		260	15.1	129	146	--	--	--	--	--
	04/11/96		168	3.1	99.6	49.1	--	--	--	--	--
	10/11/96		234	24.9	283	670	--	--	--	--	--
	01/20/97		85.2	39.4	162	620	<50	--	--	--	--
	04/08/97		<1	<1	2.1	<1	--	--	--	--	--
	07/10/97		343	64.3	87.3	144	--	--	--	--	--
	01/20/98		48	9.6	170	460	--	--	--	--	--
	04/21/98		<1	<1	5.8	5.8	<50	--	--	--	--
	07/01/98		310	34	400	830	<250	230	11	47	<50
	10/07/98		110	43	470	840	<2.5	480	46	130	14
	10/10/99		Wells destroyed by new Subway building.								

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-11	12/01/94		31.4	22.3	107	530	--	--	--	--	--
	01/05/95		16.2	11.1	19.7	108	--	--	--	--	--
	02/02/95		41.5	25	201	1,160	--	--	--	--	--
	07/11/95		30.5	3.8	115	1,200	<500	--	--	--	--
	10/11/95		32.4	4.8	51.2	512	--	--	--	--	--
	01/10/96		35.8	13.5	52.8	423	--	--	--	--	--
	04/11/96		27.4	18.5	58.3	737	--	--	--	--	--
	10/11/96		61.9	13	227	906	--	--	--	--	--
	01/20/97		89.8	12.9	256	847	<50	--	--	--	--
	04/08/97		119	72.4	925	4,690	--	--	--	--	--
	07/10/97		73.4	19.7	656	2,490	--	--	--	--	--
	01/20/98		58	<5	240	890	--	--	--	--	--
	04/21/98		76	<25	1,100	4,800	<130	--	--	--	--
	07/01/98		29	<25	470	1,200	<1300	1,900	430	190	<250
	10/07/98		54	<10	160	372	<10	1,300	290	100	97
	10/10/99		Wells destroyed by new Subway building.								
MW-12	10/11/96		20	<1	1.9	<3	--	--	--	--	--
	01/20/97		Not Sampled Under Snow Pile								
	04/08/97		13	<1	<1	<3	--	--	--	--	--
	07/10/97		20.9	<1	<1	<3	--	--	--	--	--
	01/20/98		31	<1	<1	<3	--	--	--	--	--
	04/21/98		4.4	<1	<1	<3	<50	--	--	--	--
	07/01/98		8.2	<1	<1	<3	<50	<1	<1	<5	<10
	10/07/98		21	<1	<1	<2	<1	<1	<1	<1	<5
	10/10/99		Wells destroyed by new Subway building.								

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-15	03/20/00		190	2.7	11	3.2	<5	<1	<1	<5	<5
	07/20/00		41	5.1	61	173	<10	27	7	<10	<10
	10/17/00		8	4.4	6	75	<5	63	11	13	<5
	12/20/00		200	6	<2	<6	<10	18	<2	23	<10
	03/09/01		260	110	68.0	107	<12	56	<2.5	29	<12
	05/21/01		46	39	71	411	<10	200	<2	71	<10
	02/15/02		290	27	45	110	<10	13	<2	<10	<10
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		300	46	260	153	<2	5.6	<2	<2	<10
	06/19/03		19	3	43	5	<1	22	<1	<1	<5
	10/15/03		<1	<1	<1	<3	<1	<1	<1	<1	<1
	01/30/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	05/25/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	02/08/06	2/14/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	04/20/06	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/25/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/06/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/26/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
	06/05/14	6/14/2014	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-16	03/20/00		90	19	290	780	<12	110	11	<12	<12
	07/20/00		190	44	430	892	<50	330	39	<50	<50
	10/17/00		250	23	270	314	<10	390	10	39	<10
	12/20/00		120	36	300	611	<25	410	19	50	<25
	03/09/01		310	22	340	632	<25	370	27	45	<25
	05/21/01		370	11	160	240	<25	110	<5	<25	<25
	02/15/02		91	8.1	280	390.9	<10	190	13	44	<10
	05/23/02		530	180	21	240	<25	190	<5	<25	<25
	09/10/02		88	5.5	34	28	<1	85	<1	5.9	<5
	12/05/02		27	32	45	52	<1	17	<1	8.2	<5
	03/21/03		3.3	1.4	3.3	10	<1	17	<1	2.6	<5
	06/19/03		90	3.5	59	88.4	<1	32	<1	<1	<5
	10/15/03		37	2.4	12	35	<1	26	<1	3	<1
	01/30/04		83	8.5	50	96	<1	130	3.1	12	<1
	05/22/04		120	5.3	61	37	<1	19	<1	<1	<1
	07/29/04		170	4.0	44	28	<1	23	<1	2.3	<1
	02/08/06	2/14/2006	10	<1	<1	3.8	<1	9.4	<1	2	<5
	04/20/06	4/26/2006	8.6	<1	9.2	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	2	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	1.1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	4.7	<1	<1	<3	<1	<1	<1	<5	<5
	09/25/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/07/07	12/13/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/26/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
	06/05/14	6/14/2014	<1	<1	<1	<3	<1	<1	<1	<5	<5

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-17	03/20/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	07/20/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	10/17/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/20/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	03/09/01		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/21/01		<1	<1	<1	<3	<5	<1	<1	<5	<5
	02/15/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	06/19/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/15/03		<1	<1	<1	<3	<1	<1	<1	<1	<1
	01/30/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	05/22/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	02/08/06	2/14/2006	<2	<2	<2	<6	<2	<2	<2	<2	<10
	04/20/06	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/25/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/06/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/26/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-18	03/20/00		2,200	9,500	2,800	14,900	<1000	2,700	660	<1000	<1000
	07/20/00		930	4,300	2,600	13,500	<250	2,700	630	430	<250
	10/17/00		960	3,500	3,200	13,700	<500	3,400	740	510	<500
	12/20/00		380	1,900	2,000	8,700	<130	2,700	610	420	150
	03/09/01		490	2,300	2,200	10,700	<130	3,000	680	430	140
	05/21/01		470	2,000	2,200	9,300	<100	2,700	710	450	160
	02/15/02		170	900	1,700	7,400	<100	2,100	530	310	120
	05/23/02		370	1,400	2,200	10,200	<130	2,800	690	500	200
	09/10/02		320	720	1,900	7,650	<50	2,400	540	440	<250
	12/05/02		270	1,100	2,200	10,300	<25	2,600	640	510	140
	03/21/03		130	640	1,500	6,750	<20	1,900	490	360	120
	06/19/03		250	880	2,000	9,300	<20	2,300	620	450	170
	10/15/03		91	150	990	4,620	<1	1,300	350	320	38
	01/30/04		130	290	1,600	7,400	<50	1,700	650	290	<50
	05/22/04		320	310	1,300	6,900	<50	1,600	390	280	77
	07/29/04		350	290	3,400	10,690	<10	3,500	760	760	240
	02/08/06	2/15/2006	24	87	970	3,450	<10	1,100	250	210	79
	04/20/06	4/26/2006	53	190	1,800	7,250	<25	2,100	520	420	<120
	09/12/06										
	09/21/06										
	10/03/06	10/10/2006	40	190	1,700	5,910	<10	1,800	500	420	150
	02/16/07	2/26/2007	25	130	1,300	5,180	<10	1,300	330	290	120
	05/17/07	5/25/2007	21	82	1,200	4,270	<10	1,200	290	230	59
	09/24/07	10/5/2007	<20	74	1,100	3,800	<20	820	160	200	<100
	12/07/07	12/12/2007	<20	68	980	3,290	<20	920	190	200	<100
	08/20/08	8/26/2008	15.1	54.2	1,000	2,230	<5	792	158	219	80
	12/10/09	12/17/2009	<10	<10	625	2,820	<10	1,460	343	317	74.8
	03/10/10	3/18/2010	<10	40.3	1,670	6,200	<10	1,900	428	413	130
	06/05/14	6/16/2014	<10	<10	2,290	8,470	<3.5	2,380	451	403	102

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-19	03/20/00		6	1	<1	<3	<5	<1	<1	<5	<5
	07/20/00		25	<1	<1	<3	<5	<1	<1	<5	<5
	10/17/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/20/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	03/09/01		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/21/01		7.6	<1	<1	<3	<5	<1	<1	<5	<5
	02/15/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	06/19/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/15/03		220	10	<1	<3	<1	<1	<1	<1	<1
	01/30/04		2.1	<1	5.0	1.8	<1	<1	<1	<1	<1
	05/22/04		5.8	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	2.2	2.6	<1	<1	<1	<1	<1
	02/08/06	2/14/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	04/20/06	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/24/07	10/5/2007	7.6	<1	<1	<3	<1	<1	<1	<5	<5
	12/07/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-20	03/20/00		1.2	<1	<1	<3	<5	<1	<1	<5	<5
	07/20/00		2.5	<1	<1	<3	<5	<1	<1	<5	<5
	10/17/00		1	<1	<1	<3	<5	<1	<1	<5	<5
	12/20/00		<1	<1	<1	<3	<5	<1	<1	<5	<5
	03/09/01		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/21/01		<1	<1	<1	<3	<5	<1	<1	<5	<5
	02/15/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	06/19/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/15/03		1.5	<1	<1	<3	<1	<1	<1	<1	<1
	01/30/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	05/22/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	02/08/06	2/14/2006	<2.5	<2.5	<2.5	<7.5	<2.5	<2.5	<2.5	<2.5	<12
	04/20/06	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	1.5	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	1.2	<1	<1	<3	<1	<1	<1	<5	<5
	09/25/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/07/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5

GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

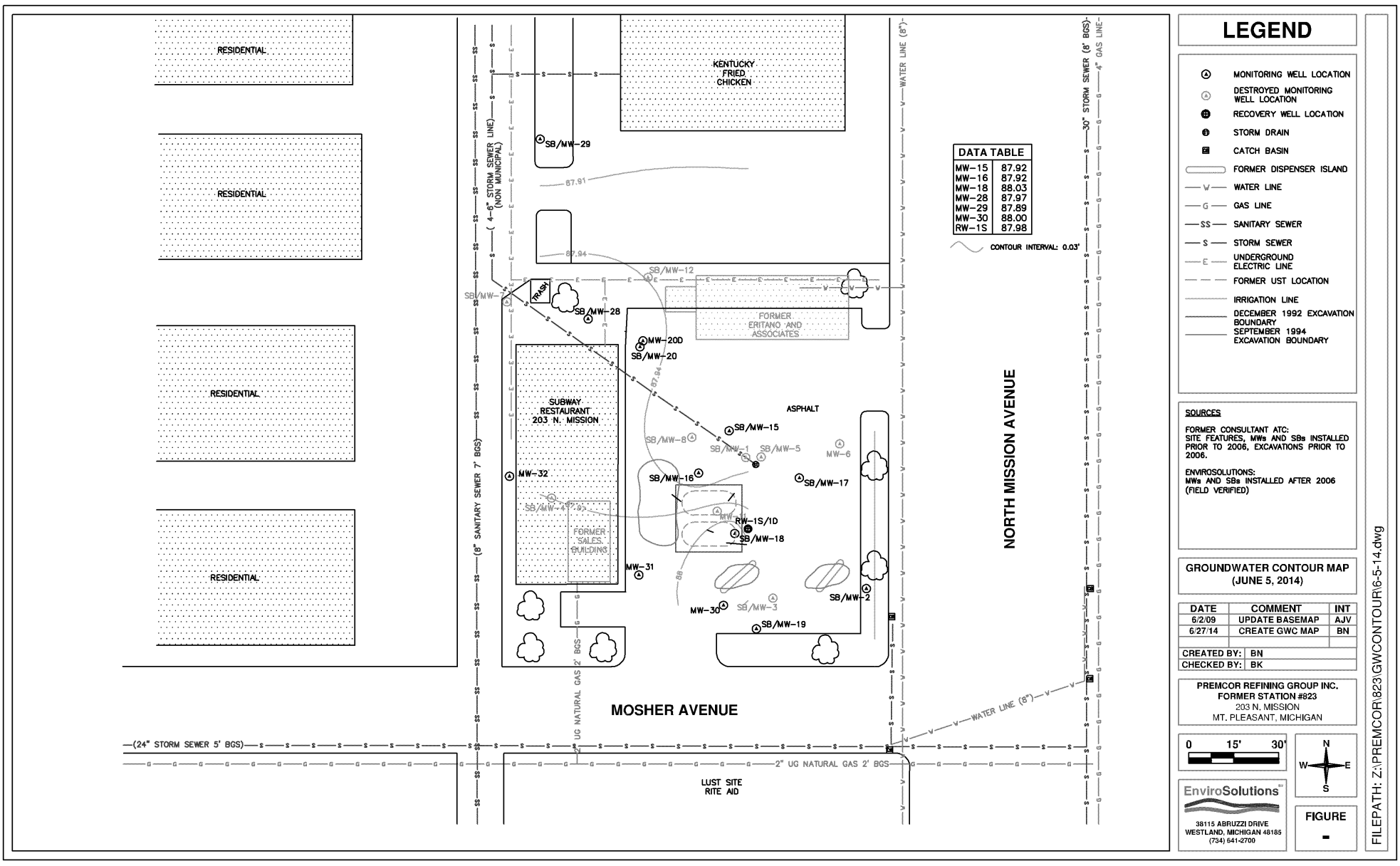
SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-20D	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/03/06	10/9/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/16/07	2/21/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/18/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/25/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/07/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-28	02/15/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	06/19/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/15/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	01/30/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	05/22/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	02/08/06	2/15/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	04/20/06	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	09/12/06	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	02/15/07	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	05/17/07	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	09/24/07	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/06/07	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	08/20/08	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
	06/05/14	6/14/2014	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-29	02/15/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	05/23/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	09/10/02		<1	<1	<1	<3	<5	<1	<1	<5	<5
	12/05/02		<1	<1	<1	<3	<1	<1	<1	<1	<5
	03/21/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	06/19/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/15/03		<1	<1	<1	<3	<1	<1	<1	<1	<5
	01/30/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	05/22/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	07/29/04		<1	<1	<1	<3	<1	<1	<1	<1	<1
	4/20/2006	4/26/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	9/12/2006	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	2/15/2007	2/22/2007	<1	1.5	<1	<3	<1	<1	<1	<5	<5
	5/17/2007	5/25/2007	<1	40	<1	<3	<1	<1	<1	<5	<5
	9/24/2007	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/6/2007	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	8/20/2008	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
	6/5/2014	6/14/2014	<1	<1	<1	<3	<1	<1	<1	<5	<5

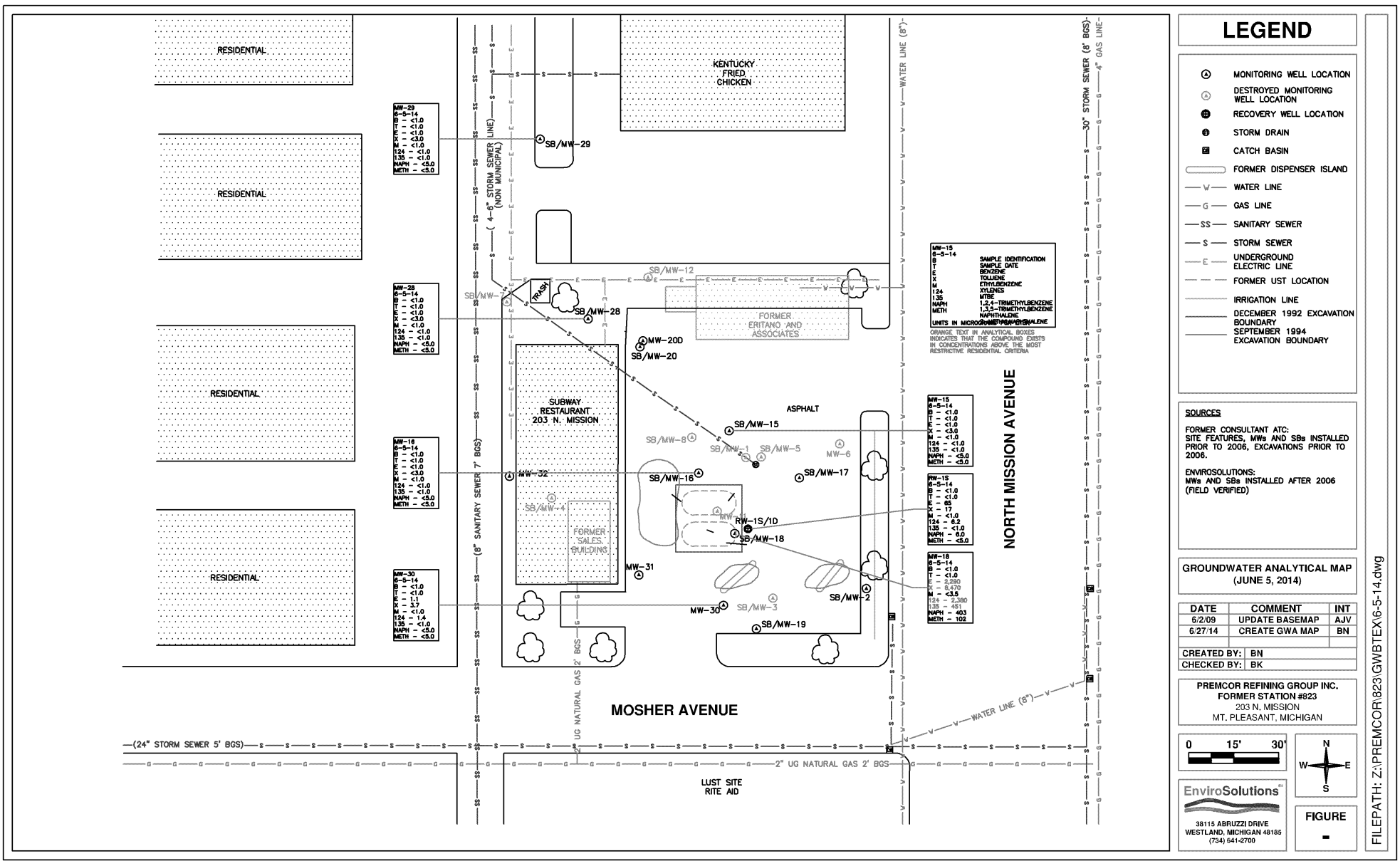
GROUNDWATER ANALYTICAL RESULTS

CLARK STATION #0823

203 N Mission, Mt. Pleasant, MI

SAMPLE	SAMPLE DATE	ANALYSIS DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	1,2,4 TMB	1,3,5 TMB	NAPH-THALENE	2-METHYL PHTHALE
			(micrograms per liter)								
Analytical Method			8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b	8260b
Method Detection Limit (unless otherwise noted)			1	1	1	2	1	1	1	1	1
Residential Drinking Water RBSL			5	790	74	280	40	63	72	520	260
Non-Residential Drinking Water RBSL			5	790	74	280	40	63	72	1500	750
Groundwater/Surface Water Interface RBSL			200	270	18	41	7,100	17	45	11	19
Residential VI GW Screening Level			2.70E+01	3.60E+04	7.00E+02	1.00E+04	2.50E+05	1.70E+03	1.20E+03	2.40E+02	9.40E+02
Non-Residential VI GW Screening Level			1.40E+02	1.50E+05	2.60E+03	1.00E+04	1.00E+06	7.30E+03	5.10E+03	1.20E+03	3.90E+03
Residential GW Volatilization to Indoor Air Inhalation RBSL			5.60E+03	5.30E+05	1.10E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Non-Residential GW Volatilization to Indoor Air Inhalation RBSL			3.50E+04	5.30E+05	1.70E+05	1.90E+05	4.70E+07	5.60E+04	6.10E+04	3.10E+04	2.50E+04
Water Solubility			1.75E+06	5.26E+05	1.69E+05	1.86E+05	4.68E+07	5.59E+04	6.12E+04	3.10E+04	2.46E+04
Flammability/Explosivity Screening Level			6.80E+04	6.10E+04	4.30E+04	7.00E+04	ID	5.60E+04	ID	NA	ID
MW-30	9/12/2006	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/3/2006	10/10/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	2/16/2007	2/22/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	5/18/2007	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	9/24/2007	10/5/2007	9.7	<1	<1	<3	<1	<1	<1	<5	<5
	12/7/2007	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	8/20/2008	8/26/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
	6/5/2014	6/14/2014	<1	<1	1.1	3.7	<1	1.4	<1	<5	<5
MW-31	9/12/2006	9/19/2006	19	<1	<1	<3	<1	<1	<1	<1	<5
	10/3/2006	10/9/2006	12	<1	<1	<3	<1	<1	<1	<1	<5
	2/16/2007	2/21/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	5/18/2007	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	9/25/2007	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/7/2007	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	8/20/2008	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
MW-32	9/12/2006	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	2/16/2007	2/21/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	5/18/2007	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	9/24/2007	10/5/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	12/7/2007	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	8/20/2008	8/25/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
RW-1D	9/12/2006	9/19/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	10/3/2006	10/10/2006	<1	<1	<1	<3	<1	<1	<1	<1	<5
	2/14/2007	2/26/2007	83	50	710	759.2	<5	230	7.6	90	<25
	5/17/2007	5/25/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	9/25/2007	10/5/2007	<1	<1	3.1	<3	<1	<1	<1	<5	<5
	12/7/2007	12/12/2007	<1	<1	<1	<3	<1	<1	<1	<5	<5
	8/20/2008	8/26/2008	<1	<1	<1	<3	<1	<1	<1	<5	<5
RW-1S	9/12/2006	9/19/2006	110	67	490	598.4	<5	400	28	92	31
	10/3/2006	10/9/2006	37	58	410	1,020	<5	130	43	60	33
	2/16/2007	2/22/2007	83	50	710	759.2	<5	230	7.6	90	<25
	5/18/2007	5/25/2007	53	23	650	455	<5	240	7.4	37	<25
	9/25/2007	10/5/2007	10	2.7	160	48	<1	60	3.8	18	8.6
	12/7/2007	12/12/2007	8	3.8	140	53	<1	42	3	22	8.4
	8/20/2008	8/26/2008	42.8	48.6	919	933	<10	273	<10	103	<50
	12/10/2009	12/17/2009	<1	<1	<1	<3	<1	<1	<1	<5	<5
	3/10/2010	3/18/2010	11.0	8.7	633	295	<2.5	318	<2.5	132	62
	6/5/2014	6/16/2014	<1	<1	65	17	<1	6.2	<1	6	<5
MW-X	2/14/2007	2/26/2007	80	48	690	739.2	<5	220	7.7	85	<25


RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
KENTUCKY FRIED CHICKEN
SB/MW-29
87.91
87.94
SB/MW-12
TRASH
SB/MW-28
MW-20D
SB/MW-20
FORMER ERITANO AND ASSOCIATES
SUBWAY RESTAURANT 203 N. MISSION
ASPHALT
SB/MW-15
SB/MW-8
SB/MW-1
SB/MW-5
MW-6
MW-32
SB/MW-16
SB/MW-17
SB/MW-4
RW-1S/1D
SB/MW-18
FORMER SALES BUILDING
MW-31
MW-30
SB/MW-3
SB/MW-2
SB/MW-19
88
NORTH MISSION AVENUE
MOSHER AVENUE
(4-6" STORM SEWER LINE) (NON MUNICIPAL)
(8" SANITARY SEWER 7' BGS)
WATER LINE (8")
30" STORM SEWER (8' BGS)
4" GAS LINE
UG NATURAL GAS 2' BGS
(24" STORM SEWER 5' BGS)
2" UG NATURAL GAS 2' BGS
WATER LINE (8")
LUST SITE RITE AID
DATA TABLE
MW-15 87.92
MW-16 87.92
MW-18 88.03
MW-28 87.97
MW-29 87.89
MW-30 88.00
RW-1S 87.98
CONTOUR INTERVAL: 0.03'
LEGEND
MONITORING WELL LOCATION
DESTROYED MONITORING WELL LOCATION
RECOVERY WELL LOCATION
STORM DRAIN
CATCH BASIN
FORMER DISPENSER ISLAND
WATER LINE
GAS LINE
SANITARY SEWER
STORM SEWER
UNDERGROUND ELECTRIC LINE
FORMER UST LOCATION
IRRIGATION LINE
DECEMBER 1992 EXCAVATION BOUNDARY
SEPTEMBER 1994 EXCAVATION BOUNDARY
SOURCES
FORMER CONSULTANT ATC:
SITE FEATURES, MWs AND SBs INSTALLED PRIOR TO 2006, EXCAVATIONS PRIOR TO 2006.
ENVIROSOLUTIONS:
MWs AND SBs INSTALLED AFTER 2006 (FIELD VERIFIED)
GROUNDWATER CONTOUR MAP (JUNE 5, 2014)
DATE | COMMENT | INT
6/2/09 | UPDATE BASEMAP | AJV
6/27/14 | CREATE GWC MAP | BN
CREATED BY: BN
CHECKED BY: BK
PREMCOR REFINING GROUP INC.
FORMER STATION #823
203 N. MISSION
MT. PLEASANT, MICHIGAN
0 15' 30'
N W E S
EnviroSolutions
38115 ABRUZZI DRIVE
WESTLAND, MICHIGAN 48185
(734) 641-2700
FIGURE
-
FILEPATH: Z:\PREMCOR\823\GWCONTOUR\6-5-14.dwg


RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
KENTUCKY FRIED CHICKEN
SB/MW-29
SB/MW-12
SB/MW-28
FORMER ERITANO AND ASSOCIATES
MW-20D
SB/MW-20
SUBWAY RESTAURANT 203 N. MISSION
ASPHALT
SB/MW-15
SB/MW-8
SB/MW-1
SB/MW-5
MW-6
SB/MW-17
SB/MW-16
MW-32
SB/MW-4
FORMER SALES BUILDING
RW-1S/1D
SB/MW-18
MW-31
MW-30
SB/MW-3
SB/MW-2
SB/MW-19
NORTH MISSION AVENUE
MOSHER AVENUE
LUST SITE RITE AID
(4-6" STORM SEWER LINE) (NON MUNICIPAL)
(8" SANITARY SEWER 7' BGS)
UG NATURAL GAS 2' BGS
(24" STORM SEWER 5' BGS)
2" UG NATURAL GAS 2' BGS
WATER LINE (8")
30" STORM SEWER (8' BGS)
4" GAS LINE
TRASH
MW-29 6-5-14 B - <1.0 T - <1.0 E - <1.0 X - <3.0 M - <1.0 124 - <1.0 135 - <1.0 NAPH - <5.0 METH - <5.0
MW-28 6-5-14 B - <1.0 T - <1.0 E - <1.0 X - <3.0 M - <1.0 124 - <1.0 135 - <1.0 NAPH - <5.0 METH - <5.0
MW-16 6-5-14 B - <1.0 T - <1.0 E - <1.0 X - <3.0 M - <1.0 124 - <1.0 135 - <1.0 NAPH - <5.0 METH - <5.0
MW-30 6-5-14 B - <1.0 T - <1.0 E - 1.1 X - 3.7 M - <1.0 124 - 1.4 135 - <1.0 NAPH - <5.0 METH - <5.0
MW-15 6-5-14 B - <1.0 T - <1.0 E - <1.0 X - <3.0 M - <1.0 124 - <1.0 135 - <1.0 NAPH - <5.0 METH - <5.0
RW-1S 6-5-14 B - <1.0 T - <1.0 E - 65 X - 17 M - <1.0 124 - 6.2 135 - <1.0 NAPH - 6.0 METH - <5.0
MW-18 6-5-14 B - <1.0 T - <1.0 E - 2,280 X - 6,470 M - <3.5 124 - 2,380 135 - 451 NAPH - 403 METH - 102
MW-15 6-5-14
B SAMPLE IDENTIFICATION
T SAMPLE DATE
E BENZENE
X TOLUENE
M ETHYLBENZENE
124 XYLENES
135 MTBE
NAPH 1,2,4-TRIMETHYLBENZENE
METH 1,3,5-TRIMETHYLBENZENE
NAPHTHALENE
UNITS IN MICROGRAMS PER LITER (ug/L)
ORANGE TEXT IN ANALYTICAL BOXES INDICATES THAT THE COMPOUND EXISTS IN CONCENTRATIONS ABOVE THE MOST RESTRICTIVE RESIDENTIAL CRITERIA
LEGEND
MONITORING WELL LOCATION
DESTROYED MONITORING WELL LOCATION
RECOVERY WELL LOCATION
STORM DRAIN
CATCH BASIN
FORMER DISPENSER ISLAND
WATER LINE
GAS LINE
SANITARY SEWER
STORM SEWER
UNDERGROUND ELECTRIC LINE
FORMER UST LOCATION
IRRIGATION LINE
DECEMBER 1992 EXCAVATION BOUNDARY
SEPTEMBER 1994 EXCAVATION BOUNDARY
SOURCES
FORMER CONSULTANT ATC: SITE FEATURES, MWs AND SBs INSTALLED PRIOR TO 2006, EXCAVATIONS PRIOR TO 2006.
ENVIROSOLUTIONS: MWs AND SBs INSTALLED AFTER 2006 (FIELD VERIFIED)
GROUNDWATER ANALYTICAL MAP (JUNE 5, 2014)
DATE | COMMENT | INT
6/2/09 | UPDATE BASEMAP | AJV
6/27/14 | CREATE GWA MAP | BN
CREATED BY: BN
CHECKED BY: BK
PREMCOR REFINING GROUP INC.
FORMER STATION #823
203 N. MISSION
MT. PLEASANT, MICHIGAN
0 15' 30'
N W E S
EnviroSolutions
38115 ABRUZZI DRIVE
WESTLAND, MICHIGAN 48185
(734) 641-2700
FIGURE
-
FILEPATH: Z:\PREMCOR\823\GWBTEX\6-5-14.dwg

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 19, 2014

Bill Karban
Envirosolutions
317 S. Eddy Street
South Bend, IN 46617

RE: Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Dear Bill Karban:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised report generated per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4097942001	**RW-1S**	Water	06/05/14 09:57	06/12/14 10:55
4097942002	**MW-18**	Water	06/05/14 10:30	06/12/14 10:55
4097942003	**MW-30**	Water	06/05/14 11:03	06/12/14 10:55
4097942004	**MW-16**	Water	06/05/14 11:35	06/12/14 10:55
4097942005	**MW-15**	Water	06/05/14 12:05	06/12/14 10:55
4097942006	**MW-28**	Water	06/05/14 12:35	06/12/14 10:55
4097942007	**MW-29**	Water	06/05/14 13:20	06/12/14 10:55
4097942008	**EQUIPT. BLANK**	Water	06/05/14 13:35	06/12/14 10:55
4097942009	**FIELD BLANK**	Water	06/05/14 08:30	06/12/14 10:55
4097942010	**TRIP BLANK**	Water	06/05/14 13:45	06/12/14 10:55
4097942011	**DUP A**	Water	06/05/14 00:00	06/12/14 10:55

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4097942001	**RW-1S**	EPA 8260	LAP	12	PASI-G
4097942002	**MW-18**	EPA 8260	LAP	12	PASI-G
4097942003	**MW-30**	EPA 8260	LAP	12	PASI-G
4097942004	**MW-16**	EPA 8260	LAP	12	PASI-G
4097942005	**MW-15**	EPA 8260	LAP	12	PASI-G
4097942006	**MW-28**	EPA 8260	LAP	12	PASI-G
4097942007	**MW-29**	EPA 8260	LAP	12	PASI-G
4097942008	**EQUIPT. BLANK**	EPA 8260	LAP	12	PASI-G
4097942009	**FIELD BLANK**	EPA 8260	LAP	12	PASI-G
4097942010	**TRIP BLANK**	EPA 8260	LAP	12	PASI-G
4097942011	**DUP A**	EPA 8260	LAP	12	PASI-G

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: RW-1S **Lab ID: 4097942001** Collected: 06/05/14 09:57 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:35	71-43-2	
Ethylbenzene	**65.3**	ug/L	1.0	0.50	1		06/16/14 07:35	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/16/14 07:35	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/16/14 07:35	1634-04-4	
Naphthalene	**6.0**	ug/L	5.0	2.5	1		06/16/14 07:35	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:35	108-88-3	
1,2,4-Trimethylbenzene	**6.2**	ug/L	1.0	0.50	1		06/16/14 07:35	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:35	108-67-8	
Xylene (Total)	**17.0**	ug/L	3.0	1.5	1		06/16/14 07:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	112	%	70-130		1		06/16/14 07:35	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		06/16/14 07:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%	59-130		1		06/16/14 07:35	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-18 **Lab ID: 4097942002** Collected: 06/05/14 10:30 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<10.0**	ug/L	20.0	10.0	20		06/16/14 07:58	71-43-2	
Ethylbenzene	**2290**	ug/L	20.0	10.0	20		06/16/14 07:58	100-41-4	
2-Methylnaphthalene	**102**	ug/L	100	45.3	20		06/16/14 07:58	91-57-6	
Methyl-tert-butyl ether	**<3.5**	ug/L	20.0	3.5	20		06/16/14 07:58	1634-04-4	
Naphthalene	**403**	ug/L	100	50.0	20		06/16/14 07:58	91-20-3	
Toluene	**<10.0**	ug/L	20.0	10.0	20		06/16/14 07:58	108-88-3	
1,2,4-Trimethylbenzene	**2380**	ug/L	20.0	10.0	20		06/16/14 07:58	95-63-6	
1,3,5-Trimethylbenzene	**451**	ug/L	20.0	10.0	20		06/16/14 07:58	108-67-8	
Xylene (Total)	**8470**	ug/L	60.0	30.0	20		06/16/14 07:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		20		06/16/14 07:58	1868-53-7	
Toluene-d8 (S)	103	%	70-130		20		06/16/14 07:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%	59-130		20		06/16/14 07:58	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-30 **Lab ID: 4097942003** Collected: 06/05/14 11:03 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:10	71-43-2	
Ethylbenzene	**1.1**	ug/L	1.0	0.50	1		06/14/14 18:10	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 18:10	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 18:10	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 18:10	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:10	108-88-3	
1,2,4-Trimethylbenzene	**1.4**	ug/L	1.0	0.50	1		06/14/14 18:10	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:10	108-67-8	
Xylene (Total)	**3.7**	ug/L	3.0	1.5	1		06/14/14 18:10	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	112	%	70-130		1		06/14/14 18:10	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		06/14/14 18:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	59-130		1		06/14/14 18:10	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-16 **Lab ID: 4097942004** Collected: 06/05/14 11:35 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:33	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:33	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 18:33	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 18:33	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 18:33	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:33	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:33	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:33	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 18:33	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	110	%	70-130		1		06/14/14 18:33	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		06/14/14 18:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	59-130		1		06/14/14 18:33	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-15 **Lab ID: 4097942005** Collected: 06/05/14 12:05 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:55	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:55	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 18:55	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 18:55	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 18:55	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:55	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:55	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 18:55	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 18:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		06/14/14 18:55	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/14/14 18:55	2037-26-5	
4-Bromofluorobenzene (S)	95	%	59-130		1		06/14/14 18:55	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-28 **Lab ID: 4097942006** Collected: 06/05/14 12:35 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:17	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:17	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 19:17	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 19:17	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 19:17	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:17	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:17	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 19:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		1		06/14/14 19:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/14/14 19:17	2037-26-5	
4-Bromofluorobenzene (S)	95	%	59-130		1		06/14/14 19:17	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: MW-29 **Lab ID: 4097942007** Collected: 06/05/14 13:20 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:40	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:40	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 19:40	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 19:40	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 19:40	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:40	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:40	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 19:40	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 19:40	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	110	%	70-130		1		06/14/14 19:40	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/14/14 19:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	59-130		1		06/14/14 19:40	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: EQUIPT. BLANK **Lab ID: 4097942008** Collected: 06/05/14 13:35 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 22:17	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 22:17	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 22:17	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 22:17	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 22:17	91-20-3	
Toluene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 22:17	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 22:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 22:17	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 22:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		06/14/14 22:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/14/14 22:17	2037-26-5	
4-Bromofluorobenzene (S)	96	%	59-130		1		06/14/14 22:17	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: FIELD BLANK **Lab ID: 4097942009** Collected: 06/05/14 08:30 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:12	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:12	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/16/14 07:12	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/16/14 07:12	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/16/14 07:12	91-20-3	
Toluene	**1.2**	ug/L	1.0	0.50	1		06/16/14 07:12	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:12	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/16/14 07:12	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/16/14 07:12	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		06/16/14 07:12	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/16/14 07:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%	59-130		1		06/16/14 07:12	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: TRIP BLANK **Lab ID: 4097942010** Collected: 06/05/14 13:45 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 21:55	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 21:55	100-41-4	
2-Methylnaphthalene	**<5.0**	ug/L	5.0	2.3	1		06/14/14 21:55	91-57-6	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.17	1		06/14/14 21:55	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	2.5	1		06/14/14 21:55	91-20-3	
Toluene	**1.2**	ug/L	1.0	0.50	1		06/14/14 21:55	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 21:55	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.50	1		06/14/14 21:55	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1.5	1		06/14/14 21:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		1		06/14/14 21:55	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/14/14 21:55	2037-26-5	
4-Bromofluorobenzene (S)	96	%	59-130		1		06/14/14 21:55	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Sample: DUP A **Lab ID: 4097942011** Collected: 06/05/14 00:00 Received: 06/12/14 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<20.0**	ug/L	20.0	10.0	20		06/14/14 16:18	71-43-2	
Ethylbenzene	**2120**	ug/L	20.0	10.0	20		06/14/14 16:18	100-41-4	
2-Methylnaphthalene	**114**	ug/L	100	45.3	20		06/14/14 16:18	91-57-6	
Methyl-tert-butyl ether	**<20.0**	ug/L	20.0	3.5	20		06/14/14 16:18	1634-04-4	
Naphthalene	**354**	ug/L	100	50.0	20		06/14/14 16:18	91-20-3	
Toluene	**<20.0**	ug/L	20.0	10.0	20		06/14/14 16:18	108-88-3	
1,2,4-Trimethylbenzene	**1850**	ug/L	20.0	10.0	20		06/14/14 16:18	95-63-6	
1,3,5-Trimethylbenzene	**326**	ug/L	20.0	10.0	20		06/14/14 16:18	108-67-8	
Xylene (Total)	**7440**	ug/L	60.0	30.0	20		06/14/14 16:18	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		20		06/14/14 16:18	1868-53-7	
Toluene-d8 (S)	105	%	70-130		20		06/14/14 16:18	2037-26-5	
4-Bromofluorobenzene (S)	107	%	59-130		20		06/14/14 16:18	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

QC Batch: MSV/24604 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 4097942001, 4097942002, 4097942003, 4097942004, 4097942005, 4097942006, 4097942007, 4097942008, 4097942009, 4097942010, 4097942011

METHOD BLANK: 990031 Matrix: Water
Associated Lab Samples: 4097942001, 4097942002, 4097942003, 4097942004, 4097942005, 4097942006, 4097942007, 4097942008, 4097942009, 4097942010, 4097942011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/14/14 13:18	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/14/14 13:18	
2-Methylnaphthalene	ug/L	<5.0	5.0	06/14/14 13:18	
Benzene	ug/L	<1.0	1.0	06/14/14 13:18	
Ethylbenzene	ug/L	<1.0	1.0	06/14/14 13:18	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	06/14/14 13:18	
Naphthalene	ug/L	<5.0	5.0	06/14/14 13:18	
Toluene	ug/L	<1.0	1.0	06/14/14 13:18	
Xylene (Total)	ug/L	<3.0	3.0	06/14/14 13:18	
4-Bromofluorobenzene (S)	%	98	59-130	06/14/14 13:18	
Dibromofluoromethane (S)	%	110	70-130	06/14/14 13:18	
Toluene-d8 (S)	%	102	70-130	06/14/14 13:18	

LABORATORY CONTROL SAMPLE & LCSD: 990032 990033

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	59.1	60.4	118	121	70-130	2	20	
Ethylbenzene	ug/L	50	60.3	61.9	121	124	70-130	3	20	
Methyl-tert-butyl ether	ug/L	50	58.8	58.9	118	118	54-139	0	20	
Toluene	ug/L	50	57.6	57.9	115	116	70-130	0	20	
Xylene (Total)	ug/L	150	173	175	116	117	70-130	1	20	
4-Bromofluorobenzene (S)	%				110	110	59-130			
Dibromofluoromethane (S)	%				107	109	70-130			
Toluene-d8 (S)	%				103	103	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 990034 990035

Parameter	Units	4097942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	250	250	291	289	116	115	70-130	1	20	
Ethylbenzene	ug/L	65.3	250	250	357	355	117	116	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.0	250	250	289	283	115	113	54-139	2	20	
Toluene	ug/L	<1.0	250	250	283	281	113	112	70-130	1	20	
Xylene (Total)	ug/L	17.0	750	750	863	871	113	114	70-132	1	20	
4-Bromofluorobenzene (S)	%						109	110	59-130			
Dibromofluoromethane (S)	%						110	109	70-130			
Toluene-d8 (S)	%						103	104	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18-1458-05 PREMCOR #823
Pace Project No.: 4097942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4097942001	**RW-1S**	EPA 8260	MSV/24604		
4097942002	**MW-18**	EPA 8260	MSV/24604		
4097942003	**MW-30**	EPA 8260	MSV/24604		
4097942004	**MW-16**	EPA 8260	MSV/24604		
4097942005	**MW-15**	EPA 8260	MSV/24604		
4097942006	**MW-28**	EPA 8260	MSV/24604		
4097942007	**MW-29**	EPA 8260	MSV/24604		
4097942008	**EQUIPT. BLANK**	EPA 8260	MSV/24604		
4097942009	**FIELD BLANK**	EPA 8260	MSV/24604		
4097942010	**TRIP BLANK**	EPA 8260	MSV/24604		
4097942011	**DUP A**	EPA 8260	MSV/24604		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SKW KB 4097942

Page: 1 of 1

1784659

EPA-R5-2018-003498_0000057

Section A Required Client Information:

Company: VALERO/ENVIROSOLUTIONS
Address:
Email To: bkarban@envirosolutionsinc.net
Phone: 574-323-4280 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bill Karban
Copy To:
Purchase Order No.: 18-1458-05
Project Name: PREMIOR #823
Project Number:

Section C Invoice Information:

Attention: SHAY WIDEMAN
Company Name: VALERO
Address: bkarban@envirosolutionsinc.net
Pace Quote Reference:
Pace Project Manager: LAURIE WOELFEL
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	NAPHTHALENE	2-METHYL NAPHTHALENE	1,2,4 TMB	1,3,5 TMB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-1S 001					6/5	9:57						X					X	X	X	X	X	X	X	X	X	6	6-12-14 SKW 3-40mlVB
2	MW-18 002					6/5	10:30																					3-40mlVB
3	MW-30 003					6/5	11:03																					
4	MW-16 004					6/5	11:35																					
5	MW-15 005					6/5	12:05																					
6	MW-28 006					6/5	12:35																					
7	MW-29 007					6/5	13:20																					
8	EQUIP. BLANK 008					6/5	13:35																					
9	FIELD BLANK 009					6/5	8:30																					
10	TRIP BLANK 010					6/5	13:45																					2-40mlVB
11	DUP. A 011					6/5																						3-40mlVB
12	MS/MSD					6/5																						6/12/14 SKW

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Bill Karban / ENVIROSOLUTIONS	6/11	pm	FED EX	6/11	pm				
	Fed Ex	6/12/14	1055	Susan K Wyler Pace	6/12/14	1055	5	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bill Karban / DAVE DAVIS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/11/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical™

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 4097942**

4097942

Client Name: Valero

Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 770274398239

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other paper 6-12-14 SW

Thermometer Used SR57 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.5 /Corr: 5 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☐ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 6-12-14
Initials: SW

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☐Yes	☒No	☐N/A	2. No project state - Fed Ex sent to address is South Bend, IN 6/12/14 SW
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8. * See Comments 6-12-14 SW
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☐Yes	☒No	☐N/A	12. No collect time on all samples 6-12-14 SW
-Includes date/time/ID/Analysis Matrix:				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: (VOA), coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☒Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 187				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: Recieved 3-40mlv B - ID MS/MSD - No collect time Unable to determine parent. PM will contact parent. Per PM RW1-S is parent Client LW 6/12/14 SW

Project Manager Review: LW **Date:** 6/12/14

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form