EnviroSolutions

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

December 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**
**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 December 3, 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 and RW-1S. 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, 12/2014
2. a. Static Groundwater Elevation Table, 12/2014
   b. Groundwater Analytical Table, 12/2014
3. a. Groundwater Contour Map, 12/2014
   b. Groundwater Analytical Map, 12/2014
4. Laboratory Analytical Results, 12/2014

EPA-R5-2018-003498_0000005

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

# WELL SAMPLING LOG

PROJECT NAME: Premier 823
SITE LOCATION: MT Pleasant
WEATHER: Sunny 30°
PROJECT #:
DATE: 12-3-14

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-18 | LENGTH OF WATER COLUMN: N/A |
| CASING MATERIAL: PVC | WELL VOLUME: N/A |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 11:30 |
| WELL DEPTH: | PUMP END TIME: 11:58 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 10.25 | WATER METER #: VS1-2 PUMP #: P-5 |

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) (10% if <5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 11:35 | 10.42 | 11.94 | 3.76 | 1.03 | 7.36 | -123 | 120 | 90.0 | |
| 11:40 | 10.42 | 12.70 | 3.98 | .42 | 7.24 | -139 | 120 | 92.1 | |
| 11:45 | 10.42 | 12.93 | 3.78 | .26 | 7.18 | -142 | 120 | 86.2 | |
| 11:50 | 10.42 | 13.21 | 3.75 | .20 | 7.15 | -145 | 120 | 80.8 | |
| 11:55 | 10.42 | 13.22 | 3.77 | .21 | 7.15 | -148 | 120 | 79.4 | |

SAMPLE TIME: 12:00
SAMPLE PARAMETERS: VOCs
SAMPLE BOTTLES REQUIRED: 3 VOAs
SAMPLE BOTTLES COLLECTED: " "
DUPLICATE SAMPLE (y/n): Y (MW-X)
EQUIPMENT BLANK (y/n): N

**COMMENTS**

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

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

# WELL SAMPLING LOG

**PROJECT NAME:** Pumcor 823
**PROJECT #:**
SITE LOCATION: MT PLEASANT
DATE: 12-3-14
WEATHER: Cloudy 32°

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-30 | LENGTH OF WATER COLUMN: N/A |
| CASING MATERIAL: PVC | WELL VOLUME: N/A |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 10:45 |
| WELL DEPTH: | PUMP END TIME: 11:10 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 10.41 | WATER METER #: MP-20 PUMP #: P-5 |

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% or <.5 | pH +/- 0.1 | ORP (mv) +/- 10mV | FLOW RATE (100-500 ml) | TURBIDITY (NTU) (10% if >5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 10:51 | 10.45 | 13.59 | 2.29 | .45 | 6.55 | -48 | 300 | 8.46 | |
| 10:56 | 10.45 | 13.86 | 2.19 | .33 | 6.96 | -96 | 300 | 3.87 | |
| 11:01 | 10.45 | 13.87 | 2.14 | .21 | 7.02 | -100 | 300 | 3.77 | |
| 11:06 | 10.45 | 13.94 | 2.12 | .22 | 7.05 | -106 | 300 | 2.51 | |
| 11:11 | 10.45 | 13.97 | 2.11 | .22 | 7.07 | -107 | 300 | 2.84 | |

SAMPLE TIME: 11:15
DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs
EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 3 vots
SAMPLE BOTTLES COLLECTED: 3 vots

**COMMENTS**

PURGE DESCRIPTION: COLOR: Clear ODOR: None
SAMPLE DESCRIPTION: COLOR: Clear ODOR: None
PURGE FLOW RATE:
PURGED DRY (y/n): N
OTHER OBSERVATIONS:

**EnviroSolutions, Inc.**
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Westland, MI 48185
(734) 641-2700

# WELL SAMPLING LOG

PROJECT NAME: Pleasant 823 | PROJECT #:
SITE LOCATION: Mt. Pleasant, MI | DATE: 12-3-14
WEATHER: Cloudy 32°

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: RW-15 | LENGTH OF WATER COLUMN: 5.76 |
| CASING MATERIAL: PVC | WELL VOLUME: 0.93 |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 12:35 |
| WELL DEPTH: 15.95 | PUMP END TIME: 13:17 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 10.19 | WATER METER #: 151-2 PUMP #: P-3 |

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) (10% if <5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 12:40 | 10.21 | 12.04 | 3.400 | 1.10 | 6.93 | 1.1 | 200 | 20.5 | |
| 12:45 | 10.21 | 12.41 | 3.523 | 0.64 | " | -9.4 | 200 | 15.1 | |
| 12:50 | " | 12.71 | 3.534 | 0.55 | 6.94 | -13.7 | 200 | 7.26 | |
| 12:55 | " | 12.83 | 3.535 | 0.56 | " | -18.7 | 200 | 4.61 | |
| 13:00 | " | " | 3.535 | 0.54 | 6.95 | -22.2 | 200 | 4.21 | |
| 13:05 | " | " | 3.533 | 0.51 | 6.96 | -24.3 | 200 | 4.11 | |
| 13:10 | " | 12.84 | 3.530 | 0.53 | 6.97 | -29.6 | 200 | 3.98 | |

SAMPLE TIME: 13:15 | DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs | EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 3
SAMPLE BOTTLES COLLECTED: 3

**COMMENTS**

PURGE DESCRIPTION: COLOR: N ODOR: Y
SAMPLE DESCRIPTION: COLOR: N ODOR: Y
PURGE FLOW RATE: 200 | PURGED DRY (y/n): N
OTHER OBSERVATIONS:



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(734) 641-2700

# WELL SAMPLING LOG

| | |
|---|---|
| PROJECT NAME: Pioneer 823 | PROJECT #: |
| SITE LOCATION: | DATE: 12-3 |
| WEATHER: | |

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-16 | LENGTH OF WATER COLUMN: N/A |
| CASING MATERIAL: PVC | WELL VOLUME: N/A |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 13:00 |
| WELL DEPTH: | PUMP END TIME: 13:30 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 10.30 | WATER METER #: 161-2 PUMP #: P-5 |

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) (10% if <5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 13:05 | 10.34 | 14.76 | 3.49 | .47 | 7.31 | -73 | 280 | 31.8 | |
| 13:10 | 10.34 | 15.08 | 3.03 | .23 | 7.22 | -80 | 280 | 7.39 | |
| 13:15 | 10.35 | 14.99 | 2.89 | .18 | 7.23 | -90 | 280 | 6.09 | |
| 13:20 | 10.35 | 14.95 | 2.88 | .15 | 7.22 | -83 | 280 | 5.32 | |
| 13:25 | 10.35 | 14.85 | 2.88 | .15 | 7.22 | -84 | 280 | 5.22 | |
| 13:30 | 10.35 | 14. | 2.87 | .15 | 7.21 | -84 | 28 | 5.18 | |

| | |
|---|---|
| SAMPLE TIME: 13:30 | DUPLICATE SAMPLE (y/n): N |
| SAMPLE PARAMETERS: VOCs | EQUIPMENT BLANK (y/n): N |
| SAMPLE BOTTLES REQUIRED: 3 VOAs | |
| SAMPLE BOTTLES COLLECTED: 3 VOAs | |

**COMMENTS**

| | | | |
|---|---|---|---|
| PURGE DESCRIPTION: | COLOR: Clear | ODOR: None | |
| SAMPLE DESCRIPTION: | COLOR: Clear | ODOR: None | |
| PURGE FLOW RATE: 280 ml/min | | PURGED DRY (y/n): N | |

OTHER OBSERVATIONS:

EPA-R5-2018-003498_0000005

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

# WELL SAMPLING LOG

| | |
|---|---|
| PROJECT NAME: Parker 823 | PROJECT #: |
| SITE LOCATION: Mt Pleasant | DATE: 12-3 |
| WEATHER: Sunny 30° | |

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-15 | LENGTH OF WATER COLUMN: N/A |
| CASING MATERIAL: PVC | WELL VOLUME: N/A |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 12:13 |
| WELL DEPTH: | PUMP END TIME: 12:35 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 10.37 | WATER METER #: 1512 PUMP #: P5 |

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) (10% if <5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 12:15 | 10.37 | 14.06 | 2.71 | .85 | 7.35 | -79 | 350 | 70.2 | |
| 12:20 | 10.37 | 14.39 | 2.73 | .28 | 7.25 | -80 | 350 | 50.4 | |
| 12:25 | 10.37 | 14.46 | 2.76 | .25 | 7.26 | -87 | 350 | 43.9 | |
| 12:30 | 10.37 | 14.48 | 2.66 | .17 | 7.26 | -92 | 350 | 45.2 | |
| 12:35 | 10.37 | 14.51 | 2.62 | .15 | 7.26 | -95 | 350 | 46.7 | |

| | |
|---|---|
| SAMPLE TIME: 12:40 | DUPLICATE SAMPLE (y/n): MS/MSD TAKEN |
| SAMPLE PARAMETERS: VOCs | EQUIPMENT BLANK (y/n): N |
| SAMPLE BOTTLES REQUIRED: 3 VOAs | |
| SAMPLE BOTTLES COLLECTED: 3 VOAs | |

**COMMENTS**

| | | | |
|---|---|---|---|
| PURGE DESCRIPTION: | COLOR: Clear | ODOR: N | |
| SAMPLE DESCRIPTION: | COLOR: Clear | ODOR: N | |
| PURGE FLOW RATE: 350 | | PURGED DRY (y/n): N | |
| OTHER OBSERVATIONS: | | | |

EPA-R5-2018-003498_0000005

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

# WELL SAMPLING LOG

PROJECT NAME: PRECISION GLS
PROJECT #:
SITE LOCATION: MT. PLEASANT, MI
DATE: 12/3/14
WEATHER: 32°

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-29 | LENGTH OF WATER COLUMN: 2.6 |
| CASING MATERIAL: PVC | WELL VOLUME: |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 11:40 |
| WELL DEPTH: 14.25 | PUMP END TIME: 12:25 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 11.65 | WATER METER #: YSI-2 PUMP #: P-3 |

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% OR <0.5 | pH +/- 0.1 | ORP (mv) +/- 10mV | FLOW RATE (100-500 ml) | TURBIDITY (NTU) (10% if >5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 11:40 | 11.65 | | | | | | | ~~28.0~~ 50 | |
| 11:45 | 11.65 | 12.24 | 2.116 | 1.63 | 7.17 | 23.3 | 200 | 28.0 | |
| 11:50 | 11.65 | 12.73 | 1.999 | 1.32 | 7.22 | 28.2 | " | 15.0 | |
| 11:55 | 11.65 | 12.81 | 1.968 | 1.31 | 7.21 | 44.9 | " | 15.1 | |
| 12:00 | 11.65 | 12.91 | 1.963 | 1.23 | 7.20 | 54.1 | " | 11.1 | |
| 12:05 | 11.65 | 13.28 | 2.161 | 1.25 | 7.15 | 59.1 | " | 4.82 | |
| 12:10 | 11.65 | 13.28 | 2.171 | 1.24 | 7.16 | 60.9 | " | 4.63 | |
| 12:15 | 11.65 | 13.29 | 2.179 | 1.25 | 7.16 | 61.1 | " | 4.11 | |

SAMPLE TIME: 12:20
DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs
EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 3
SAMPLE BOTTLES COLLECTED: 3

**COMMENTS**

PURGE DESCRIPTION: COLOR: N ODOR: N
SAMPLE DESCRIPTION: COLOR: N ODOR: N
PURGE FLOW RATE: 200
PURGED DRY (y/n): N
OTHER OBSERVATIONS:

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

# WELL SAMPLING LOG

PROJECT NAME: Michlock 823 | PROJECT #:
SITE LOCATION: Mt. Pleasant MI | DATE: 12/3/14
WEATHER: 32°

| WELL DATA | PURGE DATA |
|---|---|
| WELL I.D.: MW-28 | LENGTH OF WATER COLUMN: 3.14 |
| CASING MATERIAL: PVC | WELL VOLUME: 0.51 Gallons |
| WELL DIAMETER (IN.): 2" | PUMP START TIME: 10:40 |
| WELL DEPTH: 10.71 | PUMP END TIME: 11:30 |
| DEPTH TO PRODUCT: N/A | PURGE METHOD: Low Flow |
| DEPTH TO WATER: 13.85 | WATER METER #: YSI-2 PUMP #: P-3 |

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% or <0.5 | pH +/- 0.1 | ORP (mv) +/- 10mV | FLOW RATE (100-500 ml) | TURBIDITY (NTU) (10% if >5) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 10:40 | 10.71 | | | | | | | | |
| 10:45 | " | 11.50 | 2.149 | 1.95 | 7.22 | 198 | 120 | 90.1 | |
| 10:50 | 10.75 | 12.24 | 2.129 | 1.54 | 7.19 | 181 | 120 | 47.1 | |
| 10:55 | 10.75 | 12.75 | 2.151 | 1.36 | 7.19 | -32.3 | 120 | 45.9 | |
| 11:00 | 10.75 | 13.04 | 2.155 | 0.84 | 7.20 | -49.9 | 120 | 26.2 | |
| 11:05 | 10.75 | 13.05 | 2.149 | 0.83 | 7.19 | -53.2 | 120 | 17.6 | |
| 11:10 | 10.75 | 13.04 | 2.147 | 0.78 | 7.18 | -55.9 | 120 | 16.7 | |
| 11:15 | 10.75 | 13.05 | 2.146 | 0.78 | " | -61.4 | 120 | 16.3 | |
| 11:20 | 10.75 | 13.05 | 2.147 | 0.75 | 7.19 | -63.5 | 120 | 16.1 | |

SAMPLE TIME: 11:25 | DUPLICATE SAMPLE (y/n): N
SAMPLE PARAMETERS: VOCs | EQUIPMENT BLANK (y/n): N
SAMPLE BOTTLES REQUIRED: 3
SAMPLE BOTTLES COLLECTED: 3

**COMMENTS**

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

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.

Page: / of /

1719668

**Section A** Required Client Information:

Company: Pioneer
Address: [illegible] MI
Email To: BK.Kent@Envirolutions.net
Phone: Fax:
Requested Due Date/TAT: STANDARD TAT

**Section B** Required Project Information:

Report To: B Kent@Envirolutions.net
Copy To:
Purchase Order No.:
Project Name: Pioneer 825
Project Number:

**Section C** Invoice Information:

Attention:
Company Name: [illegible]
Address: [illegible] TX
Pace Quote Reference:
Pace Project Manager: [illegible]
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 | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-16 | WT | G | 12-3 | 15:30 | | | | 3 | | | | X | | | | | | | |
| 2 | MW-18 | | | | 12:00 | | | | | | | | | | | | | | | |
| 3 | RW-15 | | | | 13:15 | | | | | | | | | | | | | | | |
| 4 | MW-28 | | | | 11:25 | | | | | | | | | | | | | | | |
| 5 | MW-29 | | | | 12:20 | | | | | | | | | | | | | | | |
| 6 | MW-15 | | | | 12:40 | | | | | | | | | | | | | | | |
| 7 | MW-15MS/MSD | | | | 12:40 | | | | | | | | | | | | | | | |
| 8 | MW-30 | | | | 11:15 | | | | | | | | | | | | | | | |
| 9 | MW-X | | | | PM | | | | | | | | | | | | | | | |
| 10 | FIELD BLANK | | | | 13:30 | | | | | | | | | | | | | | | |
| 11 | EQUIPMENT BLANK | | | | 15:40 | | | | | | | | | | | | | | | |
| 12 | TRIP BLANK | | | | [illegible] | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| | [illegible] | 12-4-14 | 2PM | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

3

SAMPLER NAME AND SIGNATURE: ROB LOSERT
PRINT Name of SAMPLER: ROB LOSERT
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 12-4-14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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.

F-ALL-Q-020rev.07, 15-May-2007

# 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 | |
| | 12/03/14 | | ND | 10.10 | 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 | |
| | 12/03/14 | | ND | 10.37 | 0.00 | 86.94 | |

# 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 | |
| | 12/03/14 | | ND | 10.31 | 0.00 | 86.94 | |
| **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 | |
| | 12/03/14 | | ND | 10.36 | 0.00 | 87.00 | |

# 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 | |
| | 12/03/14 | | ND | 10.29 | 0.00 | 87.04 | |
| **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 | |
| | 12/03/14 | | ND | 10.68 | 0.00 | 87.11 | |
| **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 | |
| | 12/03/14 | | ND | 10.97 | 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 | |
| | 12/03/14 | | ND | 11.01 | 0.00 | 86.76 | |
| **MW-28** | 02/15/02 | 97.71 | 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 | | 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 | |
| | 12/03/14 | | ND | 10.69 | 0.00 | 87.02 | |
| **MW-29** | 02/15/02 | 97.53 | 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 | | 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 | |
| | 12/03/14 | | ND | 10.62 | 0.00 | 86.91 | |
| **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 | |
| | 12/03/14 | | ND | 10.38 | 0.00 | 87.03 | |
| **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 | |
| | 08/20/08 | | ND | 10.57 | 0.00 | 87.10 | |
| | 12/03/14 | | ND | 10.64 | 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 | |
| | 12/03/14 | | ND | 10.24 | 0.00 | 86.99 | |
| **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 | |
| | 12/03/14 | | ND | 10.21 | 0.00 | 86.98 | |
| **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 | |
| | 12/3/2014 | | ND | 10.71 | 0.00 | 86.94 | |

*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. | | | | | | | | |
| **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. | | | | | | | | |
| **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 |
| | 12/03/14 | 12/12/2014 | <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 |
| | 12/03/14 | 12/12/2014 | <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 |
| | 12/03/14 | 12/12/2014 | <20 | <20 | 1,020 | 2,990 | <20 | 1,010 | 131 | 216 | <100 |

# 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

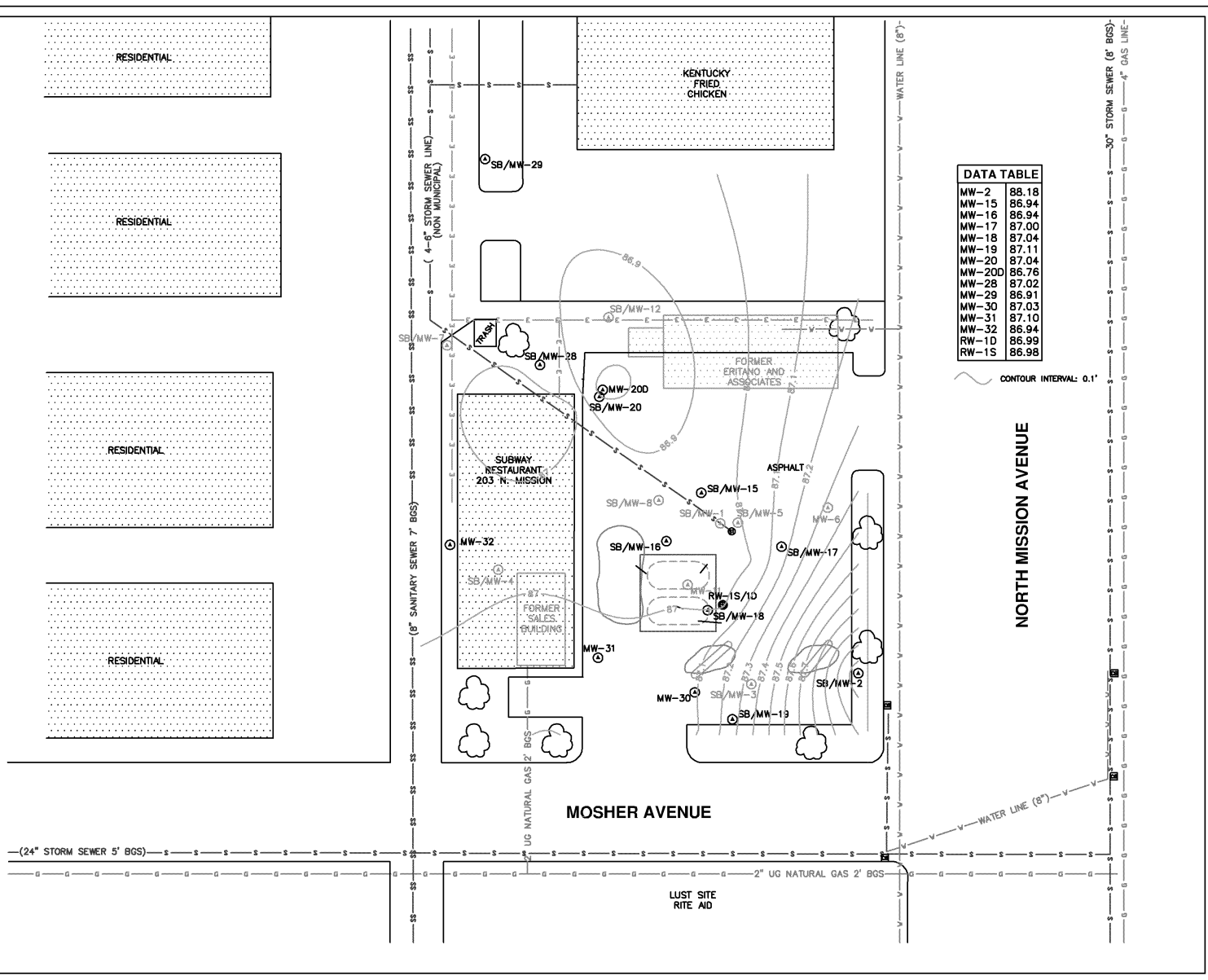
| SAMPLE | SAMPLE DATE | ANALYSIS DATE | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES | MTBE | 1,2,4 TMB | 1,3,5 TMB | NAPH-THALENE | 2-METHYL PHTHALE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (micrograms per liter) | | | | | | | | |
| Analytical Method | | | 8260b | 8260b | 8260b | 8260b | 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 |
| | 12/03/14 | 12/12/2014 | <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 |
| | 12/3/2014 | 12/12/2014 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | <5 | <5 |

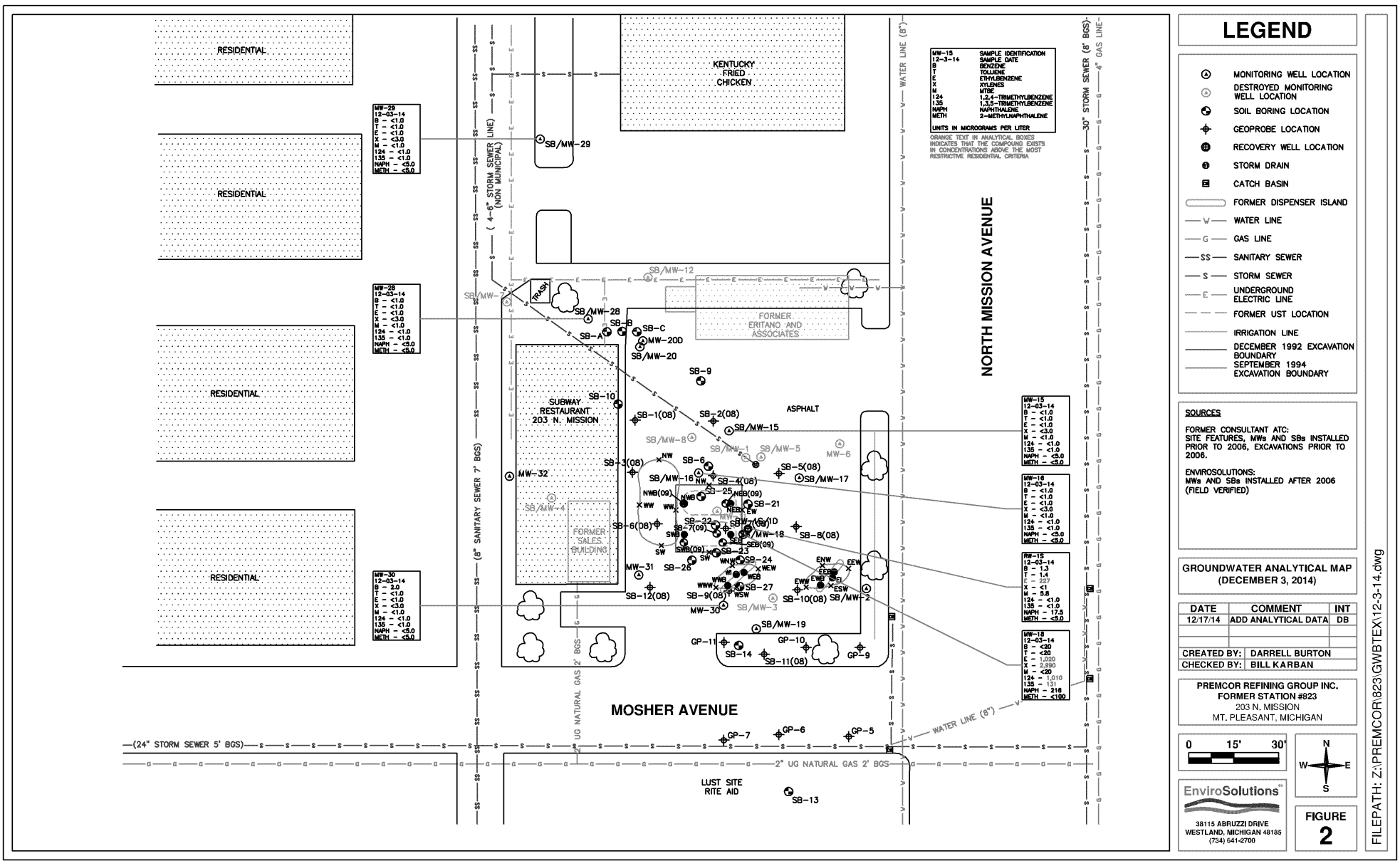
# GROUNDWATER ANALYTICAL RESULTS

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 |
| | 12/3/2014 | 12/12/2014 | 2 | <1 | <1 | <3 | <1 | <1 | <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 |
| | 12/3/2014 | 12/12/2014 | 1.3 | 1.4 | 227 | 43 | <1 | 5.8 | <1 | 17.5 | <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
( 4-6" STORM SEWER LINE) (NON MUNICIPAL)
WATER LINE (8")
30" STORM SEWER (8' BGS)
4" GAS LINE
SB/MW-12
TRASH
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
MW-32
SB/MW-16
SB/MW-17
SB/MW-4
RW-1S/1D
SB/MW-18
FORMER SALES BUILDING
MW-31
SB/MW-2
MW-30
SB/MW-3
SB/MW-19
(8" SANITARY SEWER 7' BGS)
UG NATURAL GAS 2' BGS
NORTH MISSION AVENUE
MOSHER AVENUE
WATER LINE (8")
(24" STORM SEWER 5' BGS)
2" UG NATURAL GAS 2' BGS
LUST SITE RITE AID
DATA TABLE
MW-2 88.18
MW-15 86.94
MW-16 86.94
MW-17 87.00
MW-18 87.04
MW-19 87.11
MW-20 87.04
MW-20D 86.76
MW-28 87.02
MW-29 86.91
MW-30 87.03
MW-31 87.10
MW-32 86.94
RW-1D 86.99
RW-1S 86.98
CONTOUR INTERVAL: 0.1'
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 (DECEMBER 3, 2014)
DATE | COMMENT | INT
6/2/09 | UPDATE BASEMAP | AJV
6/27/14 | CREATE GWC MAP | BN
12/8/14 | CREATE GWC MAP | DB
CREATED BY: DB
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\12-3-14.dwg


RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
KENTUCKY FRIED CHICKEN
NORTH MISSION AVENUE
MOSHER AVENUE
SUBWAY RESTAURANT 203 N. MISSION
FORMER ERITANO AND ASSOCIATES
FORMER SALES BUILDING
ASPHALT
TRASH
LUST SITE RITE AID
( 4-6" STORM SEWER (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
MW-29 12-03-14 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 12-03-14 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 12-03-14 B - 2.0 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-15 12-03-14 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-18 12-03-14 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-15 12-03-14 B - 1.3 T - 1.4 E - 227 X - <1 M - 5.8 124 - <1.0 135 - <1.0 NAPH - 17.5 METH - <3.0
MW-19 12-03-14 B - <20 T - <20 E - 1,020 X - 2,890 M - <20 124 - 1,010 135 - 131 NAPH - 216 METH - <100
MW-15 SAMPLE IDENTIFICATION
12-3-14 SAMPLE DATE
B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
M MTBE
124 1,2,4-TRIMETHYLBENZENE
135 1,3,5-TRIMETHYLBENZENE
NAPH NAPHTHALENE
METH 2-METHYLNAPHTHALENE
UNITS IN MICROGRAMS PER LITER
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
SOIL BORING LOCATION
GEOPROBE 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 (DECEMBER 3, 2014)
DATE COMMENT INT
12/17/14 ADD ANALYTICAL DATA DB
CREATED BY: DARRELL BURTON
CHECKED BY: BILL KARBAN
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 2
FILEPATH: Z:\PREMCOR\823\GWBTEX\12-3-14.dwg

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

December 15, 2014

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

RE: Project: PREMCOR 823
Pace Project No.: 40108165

Dear Bill Karban:
Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 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.

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**

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## CERTIFICATIONS

Project: PREMCOR 823
Pace Project No.: 40108165

**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
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750



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## SAMPLE SUMMARY

Project: PREMCOR 823
Pace Project No.: 40108165

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40108165001** | **MW-16** | Water | 12/03/14 13:30 | 12/10/14 10:00 |
| **40108165002** | **MW-18** | Water | 12/03/14 12:00 | 12/10/14 10:00 |
| **40108165003** | **RW-15** | Water | 12/03/14 13:15 | 12/10/14 10:00 |
| **40108165004** | **MW-28** | Water | 12/03/14 11:25 | 12/10/14 10:00 |
| **40108165005** | **MW-29** | Water | 12/03/14 12:20 | 12/10/14 10:00 |
| **40108165006** | **MW-15** | Water | 12/03/14 12:40 | 12/10/14 10:00 |
| **40108165007** | **MW-30** | Water | 12/03/14 11:15 | 12/10/14 10:00 |
| **40108165008** | **MW-X** | Water | 12/03/14 00:00 | 12/10/14 10:00 |
| **40108165009** | **FIELD BLANK** | Water | 12/03/14 15:30 | 12/10/14 10:00 |
| **40108165010** | **EQUIPMENT BLANK** | Water | 12/03/14 15:40 | 12/10/14 10:00 |
| **40108165011** | **TRIP BLANK** | Water | 12/03/14 10:40 | 12/10/14 10:00 |



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# SAMPLE ANALYTE COUNT

Project: PREMCOR 823
Pace Project No.: 40108165

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **40108165001** | **MW-16** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165002** | **MW-18** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165003** | **RW-15** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165004** | **MW-28** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165005** | **MW-29** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165006** | **MW-15** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165007** | **MW-30** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165008** | **MW-X** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165009** | **FIELD BLANK** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165010** | **EQUIPMENT BLANK** | EPA 8260 | HNW | 12 | PASI-G |
| **40108165011** | **TRIP BLANK** | EPA 8260 | HNW | 12 | PASI-G |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-16** **Lab ID: 40108165001** Collected: 12/03/14 13:30 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:13 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:13 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:13 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 13:13 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | 1 | | 12/12/14 13:13 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 13:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 59-130 | 1 | | 12/12/14 13:13 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-18** **Lab ID: 40108165002** Collected: 12/03/14 12:00 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 71-43-2 | |
| Ethylbenzene | **1020** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 100-41-4 | |
| 2-Methylnaphthalene | **<100** | ug/L | 100 | 20 | | 12/12/14 09:29 | 91-57-6 | |
| Methyl-tert-butyl ether | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 1634-04-4 | |
| Naphthalene | **216** | ug/L | 100 | 20 | | 12/12/14 09:29 | 91-20-3 | |
| Toluene | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **1010** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **131** | ug/L | 20.0 | 20 | | 12/12/14 09:29 | 108-67-8 | |
| Xylene (Total) | **2990** | ug/L | 60.0 | 20 | | 12/12/14 09:29 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 96 | % | 70-130 | 20 | | 12/12/14 09:29 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 20 | | 12/12/14 09:29 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | % | 59-130 | 20 | | 12/12/14 09:29 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: RW-15** **Lab ID: 40108165003** Collected: 12/03/14 13:15 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **1.3** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 71-43-2 | |
| Ethylbenzene | **227** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 14:42 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 1634-04-4 | |
| Naphthalene | **17.5** | ug/L | 5.0 | 1 | | 12/12/14 14:42 | 91-20-3 | |
| Toluene | **1.4** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **5.8** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:42 | 108-67-8 | |
| Xylene (Total) | **42.9** | ug/L | 3.0 | 1 | | 12/12/14 14:42 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 96 | % | 70-130 | 1 | | 12/12/14 14:42 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 14:42 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | % | 59-130 | 1 | | 12/12/14 14:42 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-28** **Lab ID: 40108165004** Collected: 12/03/14 11:25 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:35 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:35 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:35 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 13:35 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 96 | % | 70-130 | 1 | | 12/12/14 13:35 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 12/12/14 13:35 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | % | 59-130 | 1 | | 12/12/14 13:35 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-29** **Lab ID: 40108165005** Collected: 12/03/14 12:20 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:57 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 13:57 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 13:57 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 13:57 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 96 | % | 70-130 | 1 | | 12/12/14 13:57 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 13:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 59-130 | 1 | | 12/12/14 13:57 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-15** **Lab ID: 40108165006** Collected: 12/03/14 12:40 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 08:21 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 08:21 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 08:21 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 08:21 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | 1 | | 12/12/14 08:21 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 08:21 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 59-130 | 1 | | 12/12/14 08:21 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-30** **Lab ID: 40108165007** Collected: 12/03/14 11:15 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **2.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 14:20 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 14:20 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 14:20 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 14:20 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | 1 | | 12/12/14 14:20 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 14:20 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 59-130 | 1 | | 12/12/14 14:20 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: MW-X** **Lab ID: 40108165008** Collected: 12/03/14 00:00 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 71-43-2 | |
| Ethylbenzene | **1000** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 100-41-4 | |
| 2-Methylnaphthalene | **<100** | ug/L | 100 | 20 | | 12/12/14 10:13 | 91-57-6 | |
| Methyl-tert-butyl ether | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 1634-04-4 | |
| Naphthalene | **213** | ug/L | 100 | 20 | | 12/12/14 10:13 | 91-20-3 | |
| Toluene | **<20.0** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **987** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **131** | ug/L | 20.0 | 20 | | 12/12/14 10:13 | 108-67-8 | |
| Xylene (Total) | **2850** | ug/L | 60.0 | 20 | | 12/12/14 10:13 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 94 | % | 70-130 | 20 | | 12/12/14 10:13 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | 20 | | 12/12/14 10:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | % | 59-130 | 20 | | 12/12/14 10:13 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: FIELD BLANK** **Lab ID: 40108165009** Collected: 12/03/14 15:30 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 17:50 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 17:50 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 17:50 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 17:50 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | 1 | | 12/12/14 17:50 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 17:50 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 59-130 | 1 | | 12/12/14 17:50 | 460-00-4 | |



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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: EQUIPMENT BLANK** **Lab ID: 40108165010** Collected: 12/03/14 15:40 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 18:13 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 18:13 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:13 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 18:13 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | 1 | | 12/12/14 18:13 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 12/12/14 18:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | % | 59-130 | 1 | | 12/12/14 18:13 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: PREMCOR 823
Pace Project No.: 40108165

**Sample: TRIP BLANK** **Lab ID: 40108165011** Collected: 12/03/14 10:40 Received: 12/10/14 10:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 71-43-2 | |
| Ethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 100-41-4 | |
| 2-Methylnaphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 18:35 | 91-57-6 | |
| Methyl-tert-butyl ether | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 1634-04-4 | |
| Naphthalene | **<5.0** | ug/L | 5.0 | 1 | | 12/12/14 18:35 | 91-20-3 | |
| Toluene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.0** | ug/L | 1.0 | 1 | | 12/12/14 18:35 | 108-67-8 | |
| Xylene (Total) | **<3.0** | ug/L | 3.0 | 1 | | 12/12/14 18:35 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | 1 | | 12/12/14 18:35 | 1868-53-7 | HS |
| Toluene-d8 (S) | 97 | % | 70-130 | 1 | | 12/12/14 18:35 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | % | 59-130 | 1 | | 12/12/14 18:35 | 460-00-4 | |



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# QUALITY CONTROL DATA

Project: PREMCOR 823
Pace Project No.: 40108165

QC Batch: MSV/26852 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40108165001, 40108165002, 40108165003, 40108165004, 40108165005, 40108165006, 40108165007, 40108165008, 40108165009, 40108165010, 40108165011

METHOD BLANK: 1094596 Matrix: Water
Associated Lab Samples: 40108165001, 40108165002, 40108165003, 40108165004, 40108165005, 40108165006, 40108165007, 40108165008, 40108165009, 40108165010, 40108165011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| 1,3,5-Trimethylbenzene | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| 2-Methylnaphthalene | ug/L | <5.0 | 5.0 | 12/12/14 06:29 | |
| Benzene | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| Ethylbenzene | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| Methyl-tert-butyl ether | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| Naphthalene | ug/L | <5.0 | 5.0 | 12/12/14 06:29 | |
| Toluene | ug/L | <1.0 | 1.0 | 12/12/14 06:29 | |
| Xylene (Total) | ug/L | <3.0 | 3.0 | 12/12/14 06:29 | |
| 4-Bromofluorobenzene (S) | % | 89 | 59-130 | 12/12/14 06:29 | |
| Dibromofluoromethane (S) | % | 97 | 70-130 | 12/12/14 06:29 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 12/12/14 06:29 | |

LABORATORY CONTROL SAMPLE & LCSD: 1094597 1094598

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/L | 50 | 53.9 | 52.6 | 108 | 105 | 70-130 | 2 | 20 | |
| Ethylbenzene | ug/L | 50 | 53.0 | 52.6 | 106 | 105 | 70-130 | 1 | 20 | |
| Methyl-tert-butyl ether | ug/L | 50 | 40.0 | 39.6 | 80 | 79 | 54-139 | 1 | 20 | |
| Toluene | ug/L | 50 | 51.8 | 51.3 | 104 | 103 | 70-130 | 1 | 20 | |
| Xylene (Total) | ug/L | 150 | 160 | 158 | 107 | 105 | 70-130 | 1 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | 97 | 98 | 59-130 | | | |
| Dibromofluoromethane (S) | % | | | | 99 | 99 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | 99 | 100 | 70-130 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1094599 1094600

| Parameter | Units | 40108165006 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 | 50 | 50 | 51.4 | 53.5 | 103 | 107 | 70-130 | 4 | 20 | |
| Ethylbenzene | ug/L | <1.0 | 50 | 50 | 50.7 | 52.9 | 101 | 106 | 70-130 | 4 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.0 | 50 | 50 | 38.6 | 41.4 | 77 | 82 | 54-139 | 7 | 20 | |
| Toluene | ug/L | <1.0 | 50 | 50 | 49.2 | 51.5 | 98 | 103 | 70-130 | 4 | 20 | |
| Xylene (Total) | ug/L | <3.0 | 150 | 150 | 152 | 159 | 101 | 106 | 70-132 | 5 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 98 | 97 | 59-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 100 | 102 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 100 | 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

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# QUALIFIERS

Project: PREMCOR 823
Pace Project No.: 40108165

## 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.

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

## ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).



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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PREMCOR 823
Pace Project No.: 40108165

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40108165001** | **MW-16** | EPA 8260 | MSV/26852 | | |
| **40108165002** | **MW-18** | EPA 8260 | MSV/26852 | | |
| **40108165003** | **RW-15** | EPA 8260 | MSV/26852 | | |
| **40108165004** | **MW-28** | EPA 8260 | MSV/26852 | | |
| **40108165005** | **MW-29** | EPA 8260 | MSV/26852 | | |
| **40108165006** | **MW-15** | EPA 8260 | MSV/26852 | | |
| **40108165007** | **MW-30** | EPA 8260 | MSV/26852 | | |
| **40108165008** | **MW-X** | EPA 8260 | MSV/26852 | | |
| **40108165009** | **FIELD BLANK** | EPA 8260 | MSV/26852 | | |
| **40108165010** | **EQUIPMENT BLANK** | EPA 8260 | MSV/26852 | | |
| **40108165011** | **TRIP BLANK** | EPA 8260 | MSV/26852 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

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

40108165

SDW

Page: / of /

1719668



EPA-R5-2018-003498_0000005

**Section A** Required Client Information:

Company: Premcor
Address: MT Pleasant, MI
Email To: BKorban@Envirosolutionsinc.net
Phone: Fax:
Requested Due Date/TAT: STANDARD TAT

**Section B** Required Project Information:

Report To: B Korban @ Envirosolutionsinc.net
Copy To:
Purchase Order No.:
Project Name: Premcor 825
Project Number:

**Section C** Invoice Information:

Attention:
Company Name: Premcor Refining Group
Address: One Valero Way / San Antonio TX
Pace Quote Reference:
Pace Project Manager: LAURIE WOELFEL
Pace Profile #:

REGULATORY AGENCY: NPDES [ ] GROUND WATER [X] 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 | COLLECTED Composite Start TIME | COLLECTED Composite End/Grab DATE | COLLECTED Composite End/Grab TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N): EPA 524.2 | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 2-Methylnaphthalene | 1,2,4 TMB | 1,3,5 TMB | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 1 | MW-16 | WT | G | 12-3 | 13:30 | | | | 3 | | | | X | | | | | | X | X | X | X | X | X | X | X | | | 3-40mlVB |
| 002 | 2 | MW-18 | | | | 12:00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | 3 | RW-15 | | | | 13:15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | 4 | MW-28 | | | | 11:25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 005 | 5 | MW-29 | | | | 12:20 | | | | | | | | | | | | | | | | | | | | | | | | 12/10/14 SDW |
| 006 | 6 | MW-15 | | | | 12:40 | | | | | | | | | | | | | | | | | | | | | | | | 6-40mlVB |
| 007 | 7 | MW-15 MS/MSD | | | | 12:40 | | | | | | | | | | | | | | | | | | | | | | | | |
| 008 | 8 | MW-36 | 007 | | | 11:15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 009 | 9 | MW-X | 008 | | | PM | | | | | | | | | | | | | | | | | | | | | | | | |
| 010 | 10 | FIELD BLANK | 009 | | | 15:30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 011 | 11 | EQUIPMENT BLANK | 010 | | | 15:40 | | | | | | | | | | | | | | | | | | | | | | | | 12/10/14 SDW |
| 012 | 12 | TRIP BLANK | 011 | | | 10:10 | | | | 1 | | | | X | | | | | | X | X | X | X | X | X | X | X | X | | 1-40mlVB |

12/10/14 JL

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [signature] / Sampler | 12-8-14 | 5PM | | | | | | | |
| | Fed Ex | 12/10/14 | 1000 | Sarah Weyers | 12/10/14 | 1000 | 0.5 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE: Rob Losito / [signature]
PRINT Name of SAMPLER: Rob Losito
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12-4-14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*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.

F-ALL-Q-020rev.07, 15-May-2007

# Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO#: 40108165**

40108165

**Client Name:** Premior

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

**Tracking #:** 8045 5484 2812

**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

**Thermometer Used** SR-56 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: 0.0 /Corr: 0.5 **Biological Tissue is Frozen:** ☐ yes ☐ no

**Temp Blank Present:** ☐ yes ☒ no

**Person examining contents:**
Date: 12/10/14
Initials: SDW

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

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☒Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☒Yes ☐No ☐N/A | 2. |
| 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. |
| 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. |
| -Includes date/time/ID/Analysis Matrix: W | | |
| 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): | | |

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

**Project Manager Review:** LW **Date:** 12/10/14

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