

Smith, Ralph N - DNR

From: Brian Hegge <bhegge@msa-ps.com>
Sent: Wednesday, March 07, 2018 11:07 AM
To: Smith, Ralph N - DNR; Erica Klingfus
Subject: RE: May 12, 2017 Webster VOC Contamination Case Closure Denial Letter
Attachments: 17644000 Analytical Data Table.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Ralph,

I just wanted to give you a short update on this project. We just completed our second round of vapor intrusion sampling around the project and are moving towards installation of two sub-slab systems. One in the Murray Apartment and one at the Tap Bar. By the time we try and justify the two inconsistent results at the Tap Bar, we would spend what it takes to install the sub-slab system. What I'd like to know is whether we need to do anything as far as notification to the Department before we proceed with the installations? I don't think so but wanted to check.

We have also completed the groundwater sampling and will be adding those results to an updated closure request, along with more historical information we have from the area. This request will be submitted once we have the sub-slab systems installed and the vapor intrusion issues dealt with.

That's what I know today. I've attached the excel folder with all data we have up to now just in case you're interested.

Brian

From: Smith, Ralph N - DNR [mailto:Ralph.Smith@wisconsin.gov]
Sent: Friday, May 12, 2017 3:35 PM
To: Erica Klingfus <eklingfus@msa-ps.com>; Brian Hegge <bhegge@msa-ps.com>
Subject: May 12, 2017 Webster VOC Contamination Case Closure Denial Letter

Hi Erica & Brian,

Here is this scanned Case Closure Denial Letter, and the hard copy is in the mail.

If we can be of further assistance, contact us anytime.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Ralph N. Smith

Hydrogeologist – Remediation and Redevelopment Program

Division of Environmental Management

Wisconsin Department of Natural Resources

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Attachment A.2. Soil Analytical Table

Webster Quik Wash
BRRTS# 02-07-000337

| SAMPLE/BORING # | GP-1 | GP-3 | GP-3 | GP-4 | Soil RCLs (mg/kg) | | |
|---------------------------------------|------------|------------|------------|------------|-------------------------------|------------|---------------|
| DEPTH to Water Table (ft BGS) | | | | | | | |
| Date Collected | 07/05/2016 | 07/05/2016 | 07/05/2016 | 07/05/2016 | | | |
| DEPTH (ft BGS) | 10 | 10 | 20 | 10 | | | |
| SATURATED OR UNSATURATED | UNSAT | UNSAT | UNSAT | UNSAT | | | |
| SOIL TYPE | sand | sand | sand | sand | July 2015 DNR Table | Background | |
| Soil Concentrations in mg/kg (or ppm) | | | | | Non-Industrial Direct Contact | Soil to GW | Surficial BTV |
| VOC ANALYTES | | | | | | | |
| Benzene | <0.0046 | <0.0047 | <0.0044 | <0.0047 | 1.49 | 0.0051 | |
| n-Butylbenzene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | 108 | NS | |
| sec-Butylbenzene | <0.0125 | <0.0127 | <0.0119 | <0.0129 | 145 | NS | |
| Ethylbenzene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | 7.47 | 1.57 | |
| p-Isopropylbenzene | <0.0188 | <0.0192 | <0.0180 | <0.0195 | NS | NS | |
| Methyl tert butyl ether | <0.0099 | <0.0101 | <0.0095 | <0.0103 | 59.4 | 0.027 | |
| Naphthalene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | 0.854 | 0.6587 | |
| n-Propylbenzene | <0.0158 | <0.0161 | <0.0151 | <0.0163 | 264 | NS | |
| Tetrachloroethene | <0.0202 | <0.0206 | <0.0193 | <0.0209 | 30.7 | 0.0045 | |
| Trichloroethene | <0.0151 | <0.0154 | <0.0145 | <0.0157 | 1.26 | 0.0036 | |
| Toluene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | 818 | 1.1072 | |
| 1,2,3-Trichlorobenzene | <0.0152 | <0.0155 | <0.0146 | <0.0158 | 48.9 | NS | |
| 1,2,4-Trimethylbenzene | <0.0116 | <0.0119 | <0.0111 | <0.0120 | 89.8 | 1.3821* | |
| 1,3,5-Trimethylbenzene | <0.0122 | <0.0124 | <0.0116 | <0.0126 | 182 | 1.3821* | |
| Xylene (Total) | <0.0423 | <0.0432 | <0.0404 | <0.0438 | 258* | 3.96* | |
| No. of Individual Exceedances (DC) | 0 | 0 | 0 | 0 | | | |
| Cumulative Hazard Index (DC) | 0 | 0 | 0 | 0 | | | |
| Cumulative Cancer Risk (DC) | 0 | 0 | 0 | 0 | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Blanks indicate parameter was not analyzed.

NS: No published standard.

Table Notes:

J: Indicates the analyte was detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation.

<: Indicates the analyte was not detected above the Laboratory Limit of Quantitation.

*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).

Attachment A.2. Soil Analytical Table
 Webster Quik Wash
 BRRTS# 02-07-000337

| SAMPLE/BORING # | GP-1 | GP-3 | GP-3 | GP-4 | OW-1 | | | | | | OW-2 | | | | | | Soil RCLs (mg/kg) | | |
|---------------------------------------|------------|------------|------------|------------|-------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------------|---------------|
| DEPTH to Water Table (ft BGS) | | | | | | | | | | | | | | | | | | | |
| Date Collected | 07/05/2016 | 07/05/2016 | 07/05/2016 | 07/05/2016 | | | | | | | | | | | | | | | |
| DEPTH (ft BGS) | 10 | 10 | 20 | 10 | 5 | 15 | 25 | 30 | 35 | 45 | 5 | 15 | 25 | 30 | 35 | 40 | | | |
| SATURATED OR UNSATURATED | UNSAT | UNSAT | UNSAT | UNSAT | | | | | | | | | | | | | | | |
| SOIL TYPE | sand | sand | sand | sand | | | | | | | | | | | | | July 2015 DNR Table | | Background |
| Soil Concentrations in mg/kg (or ppm) | | | | | | | | | | | | | | | | | Non-Industrial Direct Contact | Soil to GW | Surficial BTV |
| VOC ANALYTES | | | | | | | | | | | | | | | | | | | |
| Benzene | <0.0046 | <0.0047 | <0.0044 | <0.0047 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 0.6 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 1.49 | 0.0051 | |
| n-Butylbenzene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 108 | NS | |
| sec-Butylbenzene | <0.0125 | <0.0127 | <0.0119 | <0.0129 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 145 | NS | |
| Ethylbenzene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | 29.6 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 7.47 | 1.57 | |
| p-Isopropylbenzene | <0.0188 | <0.0192 | <0.0180 | <0.0195 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | NS | NS | |
| Methylene chloride | | | | | | | | | | | | | | | | | | | |
| Methyl tert butyl ether | <0.0099 | <0.0101 | <0.0095 | <0.0103 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 59.4 | 0.027 | |
| Naphthalene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.854 | 0.6587 | |
| n-Propylbenzene | <0.0158 | <0.0161 | <0.0151 | <0.0163 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 264 | NS | |
| Tetrachloroethene | <0.0202 | <0.0206 | <0.0193 | <0.0209 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 30.7 | 0.0045 | |
| Trichloroethene | <0.0151 | <0.0154 | <0.0145 | <0.0157 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 1.26 | 0.0036 | |
| Toluene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | 45.7 | <0.2 | 0.3 | 0.3 | 0.8 | 1.2 | <0.2 | 0.2 | 0.4 | 0.5 | 0.3 | <0.2 | 818 | 1.1072 | |
| 1,2,3-Trichlorobenzene | <0.0152 | <0.0155 | <0.0146 | <0.0158 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 48.9 | NS | |
| 1,2,4-Trimethylbenzene | <0.0116 | <0.0119 | <0.0111 | <0.0120 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 89.8 | 1.3821* | |
| 1,3,5-Trimethylbenzene | <0.0122 | <0.0124 | <0.0116 | <0.0126 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 182 | 1.3821* | |
| Xylene (Total) | <0.0423 | <0.0432 | <0.0404 | <0.0438 | 111.7 | <2.0 | <2.0 | <2.0 | <2.0 | 8.9 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 258* | 3.96* | |
| No. of Individual Exceedances (DC) | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Cumulative Hazard Index (DC) | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Cumulative Cancer Risk (DC) | 0 | 0 | 0 | 0 | | | | | | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.
Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.
 Blanks indicate parameter was not analyzed.
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Table Notes:

J: Indicates the analyte was detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation.
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Attachment A.2. Soil Analytical Table
 Webster Quik Wash
 BRRTS# 02-07-000337

| SAMPLE/BORING # | OW-3 | | | OW-4 | | OW-5 | | OW-6 | | | OW-7 | | | OW-8 | | | OW-9 | | Soil RCLs (mg/kg) | | | | |
|------------------------------------|---------------------------------------|------|------|--------|------|--------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|---------------------|------------|-------------------------------|------------|---------------|
| DEPTH to Water Table (ft BGS) | | | | | | | | | | | | | | | | | | | | | | | |
| Date Collected | 7/1986 | | | 7/1986 | | 7/1986 | | 7/1986 | | | 7/1986 | | | 7/1986 | | | 7/1986 | | | | | | |
| DEPTH (ft BGS) | 5 | 10 | 40 | 5 | 45 | 5 | 45 | 5 | 10 | 45 | 5 | 10 | 45 | 5 | 10 | 45 | 5 | 40 | | | | | |
| SATURATED OR UNSATURATED | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL TYPE | | | | | | | | | | | | | | | | | | | | | | | |
| | Soil Concentrations in mg/kg (or ppm) | | | | | | | | | | | | | | | | | | July 2015 DNR Table | Background | | | |
| | | | | | | | | | | | | | | | | | | | | | Non-Industrial Direct Contact | Soil to GW | Surficial BTV |
| VOC ANALYTES | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 1.49 | 0.0051 | |
| n-Butylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 108 | NS | |
| sec-Butylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 145 | NS | |
| Ethylbenzene | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 7.47 | 1.57 | |
| p-Isopropylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | NS | NS | |
| Methylene chloride | | | | | | | | | | | | | | | | | | | | | | | |
| Methyl tert butyl ether | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 59.4 | 0.027 | |
| Naphthalene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.854 | 0.6587 | |
| n-Propylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 264 | NS | |
| Tetrachloroethene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 30.7 | 0.0045 | |
| Trichloroethene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 1.26 | 0.0036 | |
| Toluene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 818 | 1.1072 | |
| 1,2,3-Trichlorobenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 48.9 | NS | |
| 1,2,4-Trimethylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 89.8 | 1.3821* | |
| 1,3,5-Trimethylbenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 182 | 1.3821* | |
| Xylene (Total) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 258* | 3.96* | |
| No. of Individual Exceedances (DC) | | | | | 0 | | | | | | | | | | | | | | | 0 | | | |
| Cumulative Hazard Index (DC) | | | | | 0 | | | | | | | | | | | | | | | 0 | | | |
| Cumulative Cancer Risk (DC) | | | | | 0 | | | | | | | | | | | | | | | 0 | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Blanks indicate parameter was not analyzed.

NS: No published standard.

Table Notes:

J: Indicates the analyte was detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation.

<: Indicates the analyte was not detected above the Laboratory Limit of Quantitation.

*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).

Attachment A.2. Soil Analytical Table
Webster Quik Wash
BRRTS# 02-07-000337

| SAMPLE/BORING # | SB-1 | | SB-2 | | SB-3 | SB-4 | | | SB-5 | SB-6 | SB-7 | | | SB-8 | |
|------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| DEPTH to Water Table (ft BGS) | | | | | | | | | | | | | | | |
| Date Collected | | | | | | | | | | | | | | | |
| DEPTH (ft BGS) | 9-11 | 34-36 | 24-26 | 34-36 | 34-36 | 34-36 | 44-46 | 69-71 | 34-36 | 34-36 | 8-11 | 38-40 | 60-62 | 64-66 | 34-36 |
| SATURATED OR UNSATURATED | | | | | | | | | | | | | | | |
| SOIL TYPE | | | | | | | | | | | | | | | |
| VOC ANALYTES | | | | | | | | | | | | | | | |
| Benzene | | | | | | | | | | | | | | | |
| n-Butylbenzene | | | | | | | | | | | | | | | |
| sec-Butylbenzene | | | | | | | | | | | | | | | |
| Ethylbenzene | | | | | | | | | | | | | | | |
| p-Isopropylbenzene | | | | | | | | | | | | | | | |
| Methylene chloride | <9.8 | <9.8 | <9.8 | <9.8 | <9.8 | 42.9 | 49.2 | 43.1 | <9.8 | <9.8 | <9.8 | <9.8 | 13.7 | 22.4 | |
| Methyl tert butyl ether | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | |
| n-Propylbenzene | | | | | | | | | | | | | | | |
| Tetrachloroethene | <2.0 | 34.9 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 5.8 | <2.0 | 2.4 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Trichloroethene | | | | | | | | | | | | | | | |
| Toluene | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| 1,2,3-Trichlorobenzene | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | | | | | | | | | |
| Xylene (Total) | | | | | | | | | | | | | | | |
| No. of Individual Exceedances (DC) | | | | | | | | | | | | | | | |
| Cumulative Hazard Index (DC) | | | | | | | | | | | | | | | |
| Cumulative Cancer Risk (DC) | | | | | | | | | | | | | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

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Blanks indicate parameter was not analyzed.

NS: No published standard.

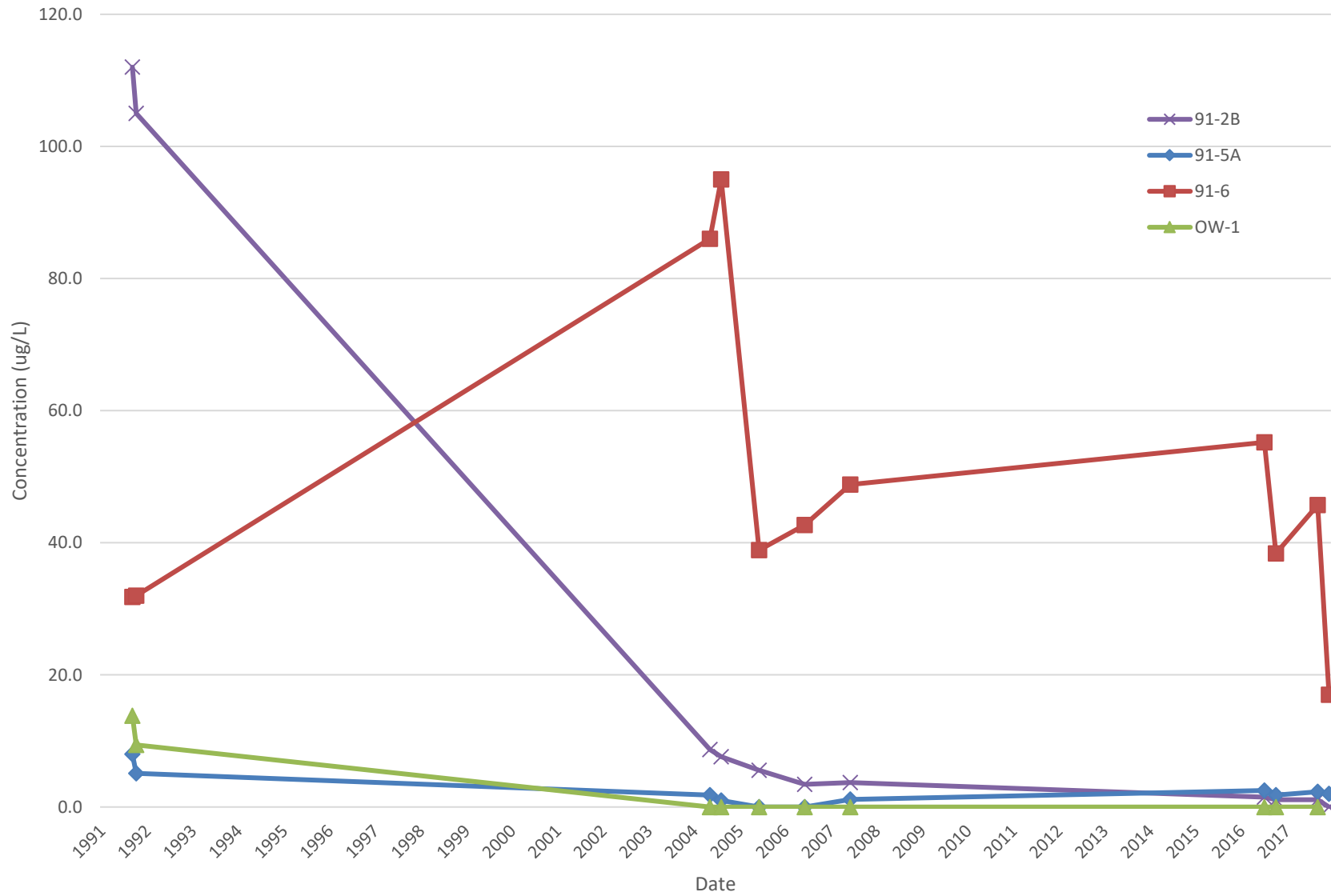
Table Notes:

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*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).

Tetrachloroethene Concentrations in Monitoring Wells Webster VOC Contamination Site



Attachment A.6. Water Level Elevations
Webster Quik Wash
BRRTS# 02-07-000337

| 91-1 | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 983.22 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 940.76 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 32.44 | 950.78 |
| 10/03/2016 | 31.87 | 951.35 |
| 09/26/2017 | 31.47 | 951.75 |
| 12/13/2017 | 31.46 | 951.76 |

| 91-2A | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 983.69 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 941.34 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 33.38 | 950.31 |
| 10/03/2016 | 32.81 | 950.88 |
| 09/26/2017 | 32.43 | 951.26 |
| 12/13/2017 | 32.45 | 951.24 |

| 91-2B | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 984.28 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 913.13 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 32.81 | 951.47 |
| 10/03/2016 | 32.21 | 952.07 |
| 09/26/2017 | 31.85 | 952.43 |
| 12/13/2017 | 31.83 | 952.45 |

| 91-5A | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 980.49 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 940.79 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 29.16 | 951.33 |
| 10/03/2016 | 28.58 | 951.91 |
| 09/26/2017 | 28.28 | 952.21 |
| 12/13/2017 | 28.25 | 952.24 |

| 91-5B | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 980.48 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 911.13 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 29.23 | 951.25 |
| 10/03/2016 | 28.63 | 951.85 |
| 09/26/2017 | 28.30 | 952.18 |
| 12/13/2017 | 28.26 | 952.22 |

| 91-6 | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 982.01 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 942.73 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 30.65 | 951.36 |
| 10/03/2016 | 30.13 | 951.88 |
| 09/26/2017 | 28.82 | 953.19 |
| 12/13/2017 | 29.80 | 952.21 |

| 91-7 | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 980.99 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 912.94 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 29.67 | 951.32 |
| 10/03/2016 | 29.15 | 951.84 |
| 09/26/2017 | 28.84 | 952.15 |
| 12/13/2017 | 28.81 | 952.18 |

| OW-1 | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 983.36 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 936.83 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |
| 07/05/2016 | 32.35 | 951.01 |
| 10/03/2016 | 31.67 | 951.69 |
| 09/26/2017 | 31.34 | 952.02 |
| 12/13/2017 | 31.29 | 952.07 |

| OW-2 | | |
|----------------------------|--------------|-----------------------|
| Surface Elevation | | |
| Top of Casing Elevation | | 983.48 |
| Top of Screen Elevation | | |
| Bottom of Screen Elevation | | 938.46 |
| Measurement Date | DTW (Casing) | Groundwater Elevation |

Table Notes:

DTW: Depth to water.

All measurements are in feet.

| | | |
|------------|-------|--------|
| 07/05/2016 | 32.54 | 950.94 |
| 10/03/2016 | 31.78 | 951.70 |
| 09/26/2017 | 31.44 | 952.04 |
| 12/13/2017 | 31.41 | 952.07 |

Attachment A.3. Residual Soil Contamination Table
 Webster Quik Wash
 BRRTS# 02-07-000337

| SAMPLE/BORING # | OW-1 | OW-1 | OW-7 | SB-1 | SB-4 ¹ | | | SB-6 | SB-7 ¹ | | SB-9 ¹ | SB-13 | SB-14 ¹ | SB-18 | Soil RCLs (mg/kg) | | |
|---------------------------------------|------------|------------|------------|------------|-------------------|-------|-------|------------|-------------------|-------|-------------------|------------|--------------------|------------|-------------------------------|------------|---------------|
| DEPTH to Water Table (ft BGS) | | | | | | | | | | | | | | | | | |
| Date Collected | 07/15/1986 | 07/15/1986 | 07/15/1986 | 06/17/1991 | 06/17/1991 | | | 06/17/1991 | 06/17/1991 | | 06/17/1991 | 06/17/1991 | 06/17/1991 | 06/17/1991 | | | |
| DEPTH (ft BGS) | 5 | 45 | 45 | 34-36 | 34-36 | 44-46 | 69-71 | 34-36 | 60-62 | 64-66 | 60-62 | 34-36 | 34-36 | 34-36 | | | |
| SATURATED OR UNSATURATED | | | | | | | | | | | | | | | | | |
| SOIL TYPE | | | | | | | | | | | | | | | | | |
| Soil Concentrations in mg/kg (or ppm) | | | | | | | | | | | | | | | July 2015 DNR Table | | Background |
| | | | | | | | | | | | | | | | Non-Industrial Direct Contact | Soil to GW | Surficial BTV |
| VOC ANALYTES | | | | | | | | | | | | | | | | | |
| Acetone | | | | | | | | | | | | | | | | | |
| Benzene | <0.4 | 0.6 | <1.0 | | | | | | | | | | | | | 1.49 | 0.0051 |
| n-Butylbenzene | | | | | | | | | | | | | | | | 108 | NS |
| sec-Butylbenzene | | | | | | | | | | | | | | | | 145 | NS |
| Ethylbenzene | 29.6 | <0.4 | <1.0 | | | | | | | | | | | | | 7.47 | 1.57 |
| p-Isopropylbenzene | | | | | | | | | | | | | | | | NS | NS |
| Methylene chloride | | | | <9.8 | 42.9 | 49.2 | 43.1 | <9.8 | 13.7 | 22.4 | 14.6 | <9.8 | 13.5 | <9.8 | | 60.7 | 0.0026 |
| Methyl tert butyl ether | | | | | | | | | | | | | | | | 59.4 | 0.027 |
| Naphthalene | | | | | | | | | | | | | | | | 0.854 | 0.6587 |
| n-Propylbenzene | | | | | | | | | | | | | | | | 264 | NS |
| Tetrachloroethylene | <0.2 | <0.2 | <0.5 | 34.9 | <2.0 | <2.0 | 5.8 | 2.4 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 9.3 | | 30.7 | 0.0045 |
| Trichloroethylene | | | | | | | | | | | | | | | | 1.26 | 0.0036 |
| Trichlorofluoromethane | <0.4 | <0.4 | 11.3 | | | | | | | | | | | | | 1,230 | 4.4775 |
| Toluene | 45.7 | 1.2 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 4.2 | <2.0 | <2.0 | | 818 | 1.1072 |
| 1,2,3-Trichlorobenzene | | | | | | | | | | | | | | | | 48.9 | NS |
| 1,2,4-Trimethylbenzene | | | | | | | | | | | | | | | | 89.8 | 1.3793* |
| 1,3,5-Trimethylbenzene | | | | | | | | | | | | | | | | 182 | 1.3793* |
| Xylene (Total) | 101.7 | 8.9 | <5.0 | | | | | | | | | | | | | 258* | 3.94* |
| No. of Individual Exceedances (DC) | | | | | | | | | | | | | | | | | |
| Cumulative Hazard Index (DC) | | | | | | | | | | | | | | | | | |
| Cumulative Cancer Risk (DC) | | | | | | | | | | | | | | | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance within four feet of the ground surface, and BTV exceedance for metals.
Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Table Notes:

<: Indicates the analyte was not detected above the Laboratory Limit of Quantitation.

*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).

J: Indicates the analyte was detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation.

Blank cells indicate that the analyte was not analyzed/there was no data was available for these analytes.

¹The January 1992 Investigation Report prepared by RREM, Inc. indicated that methylene chloride detections in SB-4, SB-7, SB-9, and SB-14 were believed to be the result of laboratory contamination during sample analysis.

Attachment A.4. Vapor Analytical Table

Former Webster Quik Wash

BRRTS# 02-07-000337

| Location | Vapor Samples | | | | | | | | |
|-----------------------------|---------------|-------------------|-------------------|--------------------|-------------------------------------|------------|-------------------------------------|------------|-----------------------|
| | Murray Apt | Murray Apt | Jaeger Apt | Jaeger Crawl Space | VP-1 (Church utility room north) | | VP-2 (Church storage area south) | | VP (Fire station g |
| Duration or Depth Collected | Sub Slab | 24 hour | 24 hour | 24 hour | Sub Slab | | Sub Slab | | Sub |
| Date | 07/05/2016 | 7/5/2016-7/6/2016 | 7/5/2016-7/6/2016 | 7/5/2016-7/6/2016 | 09/26/2017 | 12/12/2017 | 09/26/2017 | 12/12/2018 | 09/26/2017 |
| 1,1-Dichloroethene | <0.44 | <0.38 | <0.37 | <0.37 | <0.38 | <0.40 | <33.2 | <0.43 | <0.41 |
| cis-1,2-Dichloroethene | <0.45 | <0.40 | <0.38 | <0.38 | <0.55 | <0.57 | <47.7 | <0.62 | <0.60 |
| trans-1,2-Dichloroethene | <0.70 | <0.62 | <0.60 | <0.60 | <0.47 | <0.50 | <41.3 | <0.54 | <0.52 |
| Tetrachloroethene | 8,180 | 2.5 | 1.1 | 12.7 | 15.6 | 2.2 | 170 | 102 | 68.4 |
| Trichloroethene | 5.2 | <0.44 | <0.43 | <0.43 | <0.43 | <0.45 | <37.5 | <0.49 | <0.47 |
| Vinyl chloride | <0.36 | <0.31 | <0.30 | <0.30 | <0.42 | <0.21 | <17.6 | <0.23 | <0.22 |

All concentrations reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Vapor Action Levels (VALs) based on the Wisconsin Department of Natural Resources (DNR) Guidance Document Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin (PUB-RR-800), and the Environmental Protection Agency (EPA) Soil Gas Concentrations.

Vapor Action Levels (VALs) and Vapor Risk Screening Levels (VRSLs) obtained from the WDNR Indoor Air Vapor Action Levels and Vapor Risk Screening Levels Table based on June 2017 USEPA Regional Screening Level Tables

NS = Constituent has no published standard.

<0.28 = Constituent was not detected above the laboratory limit of detection (LOD).

Concentrations in **Bold** text exceed a VAL/VRSL

Soil gas VALs are calculated from the Residual Indoor Air VALs/0.01 (attenuation factor for deep soil gas)

| Location | Vapor Samples | | | | | Residential Indoor Air VALs | Residential Sub-Slab Vapor VRSL | Small Commercial Indoor Air VALs | Small Commercial Sub Slab Vapor VRSL |
|-----------------------------|-------------------------------------|------------|--------------------------------|------------|-------------------------------------|--------------------------------|------------------------------------|-------------------------------------|---|
| | VP-4 (Fire station garage south) | | VP-5 (The Tap Bar basement) | | VP-6 (Shawn's Service Garage) | | | | |
| Duration or Depth Collected | Sub Slab | | Sub Slab | | Sub Slab | | | | |
| Date | 09/26/2017 | 12/12/2017 | 09/26/2017 | 12/12/2017 | 12/12/2017 | | | | |
| 1,1-Dichloroethene | <4.0 | <4.0 | <31.9 | <17.7 | <0.46 | 210 | 7,000 | 880 | 29,000 |
| cis-1,2-Dichloroethene | <5.7 | <5.7 | <45.8 | <25.4 | <0.65 | NS | NS | NS | NS |
| trans-1,2-Dichloroethene | <5.0 | <5.0 | <39.6 | <22.0 | <0.57 | NS | NS | NS | NS |
| Tetrachloroethene | 424 | 596 | 7,260 | 2,580 | 201 | 42 | 1,400 | 180 | 6,000 |
| Trichloroethene | <4.5 | <4.5 | <36.0 | <20.0 | 2.3 | 2.1 | 70 | 8.8 | 290 |
| Vinyl chloride | <2.1 | <2.1 | <16.9 | <9.4 | <0.24 | 1.7 | 57 | 28 | 930 |

| 1-3 (garage north) | Residential Indoor Air VALs | Residential Sub-Slab Vapor VRSL | Small Commercial Indoor Air VALs | Small Commercial Sub-Slab Vapor VRSL |
|-----------------------|-----------------------------------|---------------------------------------|---|---|
| Slab | | | | |
| 12/12/2017 | | | | |
| <0.40 | 210 | 7,000 | 880 | 29,000 |
| <0.57 | NS | NS | NS | NS |
| <0.50 | NS | NS | NS | NS |
| 12 | 42 | 1,400 | 180 | 6,000 |
| <0.45 | 2.1 | 70 | 8.8 | 290 |
| <0.21 | 1.7 | 57 | 28 | 930 |

n Agency (EPA) Vapor Intrusion Screening Level (VISL) Calculator for Residential Indoor Air Concentrations and Exterior

Attachment A.3. Residual Soil Contamination Table
 Webster Quik Wash
 BRRTS# 02-07-000337

| SAMPLE/BORING # | GP-1 | GP-3 | GP-3 | GP-4 | SB-1 | SB-4 | | | SB-6 | SB-18 | | |
|---------------------------------------|------------|------------|------------|------------|------------|------------|--------|--------|------------|------------|-------------------------------|------------|
| DEPTH to Water Table (ft BGS) | | | | | | | | | | | | |
| Date Collected | 07/05/2016 | 07/05/2016 | 07/05/2016 | 07/05/2016 | 06/17/1991 | 06/17/1991 | | | 06/17/1991 | 06/17/1991 | | |
| DEPTH (ft BGS) | 10 | 10 | 20 | 10 | 34-36 | 34-36 | 44-46 | 69-71 | 34-36 | 34-36 | Soil RCLs (mg/kg) | |
| SATURATED OR UNSATURATED | UNSAT | UNSAT | UNSAT | UNSAT | SAT | SAT | SAT | SAT | | SAT | | |
| SOIL TYPE | sand | sand | sand | sand | | | | | | | July 2015 DNR Table | |
| Soil Concentrations in mg/kg (or ppm) | | | | | | | | | | | Non-Industrial Direct Contact | Soil to GW |
| VOC ANALYTES | | | | | | | | | | | | |
| Acetone | | | | | | | | | | | | |
| Benzene | <0.0046 | <0.0047 | <0.0044 | <0.0047 | | | | | | | 1.49 | 0.0051 |
| n-Butylbenzene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | | | | | | | 108 | NS |
| sec-Butylbenzene | <0.0125 | <0.0127 | <0.0119 | <0.0129 | | | | | | | 145 | NS |
| Ethylbenzene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | | | | | | | 7.47 | 1.57 |
| p-Isopropylbenzene | <0.0188 | <0.0192 | <0.0180 | <0.0195 | | | | | | | NS | NS |
| Methylene chloride | | | | | <9.8 | 42.9 | 49.2 | 43.1 | <9.8 | <9.8 | 60.7 | 0.0026 |
| Methyl tert butyl ether | <0.0099 | <0.0101 | <0.0095 | <0.0103 | | | | | | | 59.4 | 0.027 |
| Naphthalene | <0.0128 | <0.0131 | <0.0122 | <0.0133 | | | | | | | 0.854 | 0.6587 |
| n-Propylbenzene | <0.0158 | <0.0161 | <0.0151 | <0.0163 | | | | | | | 264 | NS |
| Tetrachloroethylene | <0.0202 | <0.0206 | <0.0193 | <0.0209 | 0.0349 | <0.002 | <0.002 | 0.0058 | 2.4 | 0.0093 | 30.7 | 0.0045 |
| Trichloroethylene | <0.0151 | <0.0154 | <0.0145 | <0.0157 | | | | | | | 1.26 | 0.0036 |
| Toluene | <0.0168 | <0.0172 | <0.0161 | <0.0174 | <0.002 | | | <0.002 | | <0.002 | 818 | 1.1072 |
| 1,2,3-Trichlorobenzene | <0.0152 | <0.0155 | <0.0146 | <0.0158 | | | | | <2.0 | | 48.9 | NS |
| 1,2,4-Trimethylbenzene | <0.0116 | <0.0119 | <0.0111 | <0.0120 | | | | | | | 89.8 | 1.3793* |
| 1,3,5-Trimethylbenzene | <0.0122 | <0.0124 | <0.0116 | <0.0126 | | | | | | | 182 | 1.3793* |
| Xylene (Total) | <0.0423 | <0.0432 | <0.0404 | <0.0438 | | | | | | | 258* | 3.94* |
| No. of Individual Exceedances (DC) | | | | | | | | | | | | |
| Cumulative Hazard Index (DC) | | | | | | | | | | | | |
| Cumulative Cancer Risk (DC) | | | | | | | | | | | | |

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Table Notes:

<: Indicates the analyte was not detected above the Laboratory Limit of Quantitation.

*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).

J: Indicates the analyte was detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation.

