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July 25, 2016

Project # 3023

Mr. John Hnat
Project Manager
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 N Martin Luther King, Jr. Drive
Milwaukee, WI 53212-3128

Subject: Shop Rite Grocery (Former) / Villard Foodtown (Current)
3217 West Villard Avenue, Milwaukee, WI
FID # 241692110 **BRRTS #** 02-41-119925 **Tax Key #** 192-0853000
Semiannual Status Report

Dear John:

On behalf of Villard Foodtown, LLC (Villard), O M Enterprise (OM) is submitting the Semiannual Status Report for the referenced site.

Topographic Location and Bordering Properties

The property, part of the NW ¼ of the SE ¼ of Section 36, Township 8 North, Range 21 East, SW/4 Milwaukee-Wisconsin 15' Quadrangle.

The area of the property is approximately 56, 296 square feet. West Villard Avenue borders the property to the north. A railroad borders the property to the east, northeast, and southeast. God's Anointed Ones Church is located to the west. Commercial properties are located to the west and southwest (**Figure 1**).

Use of Property for Lumber Sale, Grocery Retail, and Dry Cleaning

A Phase I Environmental Site Assessment (ESA) was conducted in accordance with ASTM Standard E-1527-13. A brief summary of the uses of the property is as follows.

1910-1962	Lumber Company
1963	Existing Building
1962-1976	Coin Operated Laundry
1976	Use of PCE (perchloroethylene)
1978	Installation of Concrete Sump
1984	End of Dry Cleaning Operation

Former Dry Cleaning Area and Use of PCE from 1976 to 1984

JJ Fish & Chicken, 3213 W Villard Avenue, is located in the northeast corner of the existing building. This northeast area of JJ Fish & Chicken is the location of the former dry cleaning area. The use of PCE began in 1976. A concrete holding tank was installed in 1978 to store the PCE waste. The concrete holding tank was abandoned in place.

Fate, Densities, and Solubilities of Detected Chlorinated Solvents

The physical and chemical properties of chlorinated solvents govern their fates in air, soil, and water. At room temperature, most solvents are colorless with densities greater than that of water.

The densities of PCE, TCE, cis-DCE, and VC are 1.63 g/ml, 1.46 g/ml, 1.28 g/ml, and 0.91 g/ml, respectively. The solubilities of PCE, TCE, cis-DCE, and VC are 150 mg/L, 1100 mg/L, 3500 mg/L, and 2763mg/L, respectively.

Advancement of Soil Borings and Installation of Monitoring Wells

Nine soil borings (B-1 through B-9) were advanced and converted into groundwater monitoring wells (MW-1 through MW-7, PZ-1 and PZ-2) between September 1991 and April 2016. Off-site soil boring B-7/monitoring well MW-7 is located at 5151 North 32nd Street. The soil borings and monitoring wells, summarized below, are described in **Table 1**.

September 20, 1991	Soil boring B-1 and B-2, each ~ 25' deep B-1 to MW-1 and B-2 to MW-2, each 10-foot screen
March 9, 1993	Soil boring B-3 and B-4, each ~ 15 feet deep B-3 to MW-3 and B-4 to MW-4, each 10-foot screen
April 7, 2016	Soil boring B-5, B-6, and B-7, each ~ 15' deep B-5 to MW-5, B-6 to MW-6, and B-7 to MW-7, each 15-foot screen
April 8, 2016	Soil boring B-8 and B-9, each ~ 25' deep B-8 to PZ-1 and B-9 to PZ-2, each 5-foot screen

Borings Logs, Well Construction Reports, and Well Development Forms

The soil boring logs of five boring (B-5 through B-9); well construction reports of five monitoring wells (MW-5 through MW-7, PZ-1 and PZ-2; and well development forms of five monitoring wells (MW-5 through MW-7, PZ-1 and PZ-2) are included in **Appendix A**.

Residual Contaminants Levels (RCLs) in Soil

Two soil samples (0-2 and 2-4 ft.) from each boring were tested for volatile organic compounds. The test results are included in **Appendix B** and are summarized in Table 2A through 2C. RCLs calculations are included in **Appendix C**. The RCLs for the direct contact issue and soil to groundwater pathways are summarized in Table 3A through 3N.

Soil Boring B-1, S-2, 3.5 to 5.5 feet

a) Benzene, ethylbenzene, toluene, and xylenes were not detected.
b) PCE, TCE, DCE, and VC were detected at 37 ppm, 3 ppm, 2.80 ppm, and 0.031 ppm, respectively.
c) Non-industrial direct contact for PCE and TCE exceeded.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, DCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-3, S-1, 1 to 3 feet

a) Benzene, ethylbenzene, toluene, xylenes, and Vinyl chloride not detected.
b) PCE, TCE, and DCE detected at 0.033 ppm, 0.0077 ppm, and 0.0084 ppm, respectively.
c) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-3, S-3, 6 to 8 feet

a) Benzene, ethylbenzene, toluene, xylenes, PCE, TCE, and VC were not detected.
b) DCE was detected at 0.036 ppm.
c) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-4, S-3, 6 to 8 feet

a) Benzene, ethylbenzene, toluene, xylenes, and VC were not detected.
b) PCE, TCE, and DCE were detected at 23 ppm, 0.49 ppm, and 0.07 ppm, respectively.
c) For soil to groundwater, the concentrations exceeded for PCE, TCE, DCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-5, S-1, 0 to 2 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.32 ppm.
c) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-5, S-2, 2 to 4 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.40 ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-6, S-1, 0 to 2 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.153 "J" ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-6, S-2, 2 to 4 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.18 ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

An existing intact asphalt cap/barrier is in place to prevent direct contact of contaminants. Additional soil borings and protective cover/cap are not warranted.

Soil Boring B-7, S-1, 0 to 2 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.278 ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

Off-site soil boring B-7 is located to the east of railroad at the former Associated Allied Industries/New Pleasant Grove Missionary Baptist Church, 5151 N 32nd Street. Associated Allied Industries, a former hazardous waste site, is listed under the following environmental databases.

a) Wisconsin Solid & Hazardous Waste Information Management System (SHWIMS) (FID # 241807940), and
b) Federal RCRA Non-Gen / NLR and FINDS (Facility Index System/Facility Registry System)
EPA Id # W1R000001883 as of 6/13/2001
Large Quantity Generator as of 3/28/95
Waste Code: D001
Ignitable Waste
FINDS: Registry Id: 110005508520

PCE is also used as a vapor degreasing solvent in metal cleaning operations. O M believes that 0.278 ppm in the soil boring at this location may be associated with the former Associated Allied Industries.

Former Associated Allied Industries, a contaminated site, is located approximately 385 feet south of the former Shop Rite grocery site and groundwater flow from the project site is northeast. Therefore, O M believes that contamination at 5151 N 32nd Street is not associated with the project site and additional soil boring is not warranted.

Soil Boring B-7, S-2, 2 to 4 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DCE, and VC were not detected.
b) PCE was detected at 0.340 ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

PCE is also used as a vapor degreasing solvent in metal cleaning operations. O M believes that 0.278 ppm in the soil boring at this location may be associated with the former Associated Allied Industries.

Soil Boring B-8, S-1, 0 to 2 feet

a) Benzene, ethylbenzene, toluene, xylenes, and VC were not detected.
b) PCE, TCE, and DCE were detected at 11.1 ppm, 0.95 ppm, and 0.33 "J" ppm, respectively.

c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, DCE, and VC.

Additional boring to the northeast of B-8 on the rail road property and 5151 North 32nd Street is not possible.

Soil Boring B-8, S-2, 2 to 4 feet

a) Benzene, ethylbenzene, toluene, xylenes, and VC were not detected.
b) PCE was detected at 88 ppm.
c) TCE was detected at 12 ppm.
d) DCE was detected at 14.1 ppm.
e) Non-industrial direct contact did not exceed.
f) For soil to groundwater, the concentrations exceeded for PCE, TCE, DCE, and VC.

There is no issue of direct contact of contaminants. Additional boring to the northeast of B-8 on the rail road property and 5151 North 32nd Street is not possible.

Soil Boring B-9, S-1, 0 to 2 feet

a) Benzene, ethylbenzene, toluene, xylenes, TCE, DEC, and VC were not detected.
b) PCE was detected at 0.278 ppm.
c) Non-industrial direct contact did not exceed.
d) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

There is no issue of direct contact of contaminants.

Soil Boring B-9, S-2, 2 to 4 feet

a) Benzene, ethylbenzene, toluene, xylenes, and VC were not detected.
b) PCE was detected at 9.3 ppm.
c) TCE was detected at 0.206 ppm.
d) DCE was detected at 0.0265 "J" ppm.
e) Non-industrial direct contact did not exceed.
f) For soil to groundwater, the concentrations exceeded for PCE, TCE, and VC.

There is no issue of direct contact of contaminants.

Investigation on the Right-of-Way of N 32" Street May Not be Warranted

0 M believes that an environmental site investigation on the right-of-way (ROW) of North 32" Street may not be warranted because of the following observations.

a) The ROW is sandwiched between suspected contaminated property located at N 5151 N 32"d and confirmed contaminated property located N 5150 N 32"d Street.

b) Contamination on the suspected contaminated property has not been confirmed.

c) Plume of contamination along the west lot line of N 5150 N 32"d Street appears to have been delineated for Metro Works.

Drilling on Former Metro Works, 5150 N 32nd Street May Not be Warranted

a) The former Philips Components/Central Lab as a LUST site (WDNR FID # 241573640; WDNR BRRTS # 03-41-002039). One 15000 gallon fuel oil tank was closed in place with inert material on October 25, 1985. The site was located along Villard Avenue. WDNR closed the LUST activity on December 29, 1992.

b) Metro Works, located to south of Philips Components, is listed under the State/Federal environmental databases of LUST, UST, CRS, AUL, Brownfields. WDNR FID # 241032880; Status: closed; BRRTS If 03-41-391656.

c) Soil boring GP-1 was advanced along the western lot line of 5150 North 32nd property. PVOCS and GROs were not detected at 13 to 15 feet below grade. However, low levels of DROs (7.08 ppm) were detected. Therefore, petroleum contamination along west lot line appears to have been delineated.

Use of Chlorinated Solvents at Metro Works, 5150 N 32" Street

Central Lab, listed as RCRA NonGen/NLR, NY Manifest sites, was used to store and use the spent halogenated chlorinated solvents (Tetrtachloroethylene; Trichloroethylene; Methylene Chloride; 1,1,1-Trichloroethane; Carbon tetrachloride; and Chlorinated fluorocarbons) in degreasing.

Also large quantity generator (LQG) Waste Code: F001 NY Manifest: EPA ID # WID0061024

Groundwater Quality

Groundwater samples of May 2, 2016 were tested for volatile organic compounds (VOCs) using EPA Method 8260B. The laboratory test results are included in **Appendix D**. Groundwater quality data are summarized in Table 4A through 4I.

Monitoring Well MW-1

a) Benzene was detected at less than 1 ppb between 1991 and 1993. However, benzene was detected less than 88 ppb in the last two rounds. An increase in the detection limit from 1 ppb to 88 ppb appears to be associated with the interferences of other known/unknown compounds.

b) Chlorodibromomethane was detected less than 250 ppb, 100 ppb, 25 ppb, and 90 ppb, respectively. An increase in the detection limit from 25 ppb to 90 ppb appears to be associated with the interferences of other known/unknown compounds.

c) DCE (cis 1, 2 Dichloroethene) was detected as 560 ppb, 960 ppb, 780 ppb, 2410 ppb, and 2260 ppb, respectively.

d) Ethylbenzene was detected less than 1 ppb between 1991 and 1993. However, benzene was detected less than 142 ppb. An increase in the detection limit from 1 ppb to 142 ppb appears to be associated with the interferences of other contaminants.

e) PCE (Tetrachloroethene) was detected at 14000 ppb, 38000 ppb, 34000 ppb, 21200 ppb, and 22100 ppb, respectively.

f) Toluene was dected at 16 ppb, 4.1 ppb, 12 ppb, and less than 88 ppb, respectively. An increase in the detection limit from 1 ppb to 88 ppb appears to be associated with the interferences of other known/unknown compounds.

g) TCE (Trichloroethylene) was detected at 220 ppb, 960 ppb, 700 ppb, 3400 ppb, and 2940 ppb, respectively.

h) VC (Vinyl Chloride) was detected at 11 ppb, 33 ppb, 14 ppb, 84"J" ppb, and 104 "J" ppb, respectively. "J" denotes the concentration between the limit of detection (LOD) and limit of quantification (LOQ). An increase appears to be associated with the interferences of other known/unknown compounds.

i) Xylenes were detected less than3 ppb between 1991 and 1993. However, xylenes were detected at less than 620 ppb. An increase in the detection limit from 3 ppb to 620 ppb appears to be associated with the interferences of other known/unknown compounds.

Groundwater samples of August 2016 sampling will be tested for VOCs.

Monitoring Well MW-2

Benzene, chlorodibromomethane, DCE (cis 1, 2 Dichloroethene), ethylbenzene, PCE (Tetrachloroethene), toluene, TCE (Trichloroethylene), VC (Vinyl Chloride), xylenes were not detected.

Groundwater samples of August 2016 sampling will be tested for PVOCs.

Monitoring Well MW-3

Benzene, chlorodibromomethane, ethylbenzene, toluene, and xylenes were not detected.

The concentration of DCE (cis 1, 2 Dichloroethene) has significantly decreased. DCE was detected at 5.90 ppb in May 2016.

PCE (Tetrachloroethene) was not detected in three out of four rounds. PCE (1.17 "J" ppb) in May 2016 denotes a concentration between the limit of detection (LOD) and limit of quantification (LOQ).

TCE (Trichloroethylene) was not detected in two out of four rounds. TCE was detected at 0.69 "J" and 0.66 "J" ppb, respectively in the last two rounds.

The concentration of vinyl chloride (VC) ranged between 2.01 ppb and 4.8 ppb in three out of four rounds.

Groundwater samples of August 2016 sampling will be tested for VOCs.

Monitoring Well MW-4

Benzene, chlorodibromomethane, ethylbenzene, and xylenes were not detected in any of the four rounds.

DCE (cis 1, 2 Dichloroethene) concentrations ranged between 313 ppb (May 2016) and 1100 ppb (April 1993).

PCE (Tetrachloroethene) concentrations were detected at 2900 ppb, 2400 ppb, 39 ppb, and 44 ppb, respectively.

Toluene was not detected in the last two rounds.

TCE (Trichloroethylene) was detected at 440 ppb, 380 ppb, 33 ppb, and 24.6 ppb, respectively.

VC (Vinyl Chloride) was detected at 42 ppb, 48 ppb, 63 ppb, and 60 ppb, respectively.

Groundwater samples of August 2016 sampling will be tested for VOCs.

Monitoring Well MW-5

PVOCs and chlorinated solvents were not detected.

Groundwater samples of August 2016 sampling will be tested for PVOCs.

Monitoring Well MW-6

PVOCs and chlorinated solvents were not detected.

Groundwater samples of August 2016 sampling will be tested for PVOCs.

Monitoring Well MW-7

PVOCs and chlorinated solvents were not detected.

Groundwater samples of August 2016 sampling will be tested for PVOCs.

Monitoring Well PZ-1

DCE (84 ppb), PCE (75 ppb), TCE (20.20 ppb), and VC (0.97 ppb) were detected in the first round of sampling.

Groundwater samples of August 2016 sampling will be tested for VOCs.

Monitoring Well PZ-2

PCE was detected at 39000 ppb.

Benzene (< 220 ppb), chlorodibromomethane (< 225 ppb), DCE (230 "J" ppb), ethylbenzene (< 355 ppb), toluene (< 220 ppb), TCE (670 "J" ppb), VC (< 85 ppb), and xylenes (< 1550 ppb) were also detected.

"J" denotes the concentration between the limit of detection (LOD) and limit of quantification (LOQ).

An increase in the detection limit appears to be associated with the interferences of other known/unknown compounds.

Groundwater samples of August 2016 sampling will be tested for VOCs.

Depth to Groundwater and Confirmed Groundwater Flow

Depth to groundwater of all monitoring wells and groundwater elevations of MW-1 through MW-4 are included in **Table 5**.

Groundwater elevations in MW-1 through MW-4 in May 2016 were 644.54 ft. MSL; 642.72 ft. MSL; 646.05 ft,. MSL; and 645.72 ft. MSL, respectively. Groundwater appears to flow to the northeast.

Survey of New Monitoring Wells Not Warranted

Three monitoring wells are required to determine the flow of groundwater. Four monitoring wells were surveyed during the previous investigation. Groundwater flow has been confirmed to the northeast. Therefore, survey of new wells is not warranted.

Sieve # 2 Grain Size and Hydraulic Conductivity Testing

The laboratory test results are included in **Appendix E**. Soils at the site are predominantly silty clay with trace fines. The hydraulic conductivity appears to be less than 1.0×10^{-8} cm second.

Summary, Conclusions, and Recommendations

The northeast part of the building was used for dry cleaning from 1976 to 1984. Nine soil borings were advanced and converted into monitoring well were between 1991 and2016. Soils at the site are very cohesive. Groundwater appears to flow to northeast. The hydraulic conductivity appears to be less than 1.0×10^{-8} cm second.

Chlorinated solvents were detected in on-site borings B-1, B-3, B-4, B-8, and B-9. There is no issue of direct contact because the existing asphalt cover is intact. Additional drilling to the northeast of boring B-8 is not possible due to the presence of rail road and soil boring B-7 was advanced on the property located immediately east of the rail road.

Low level of PCE was detected in soil boring B-7 located at the former Associated Allied Industries, 5151 North 32nd Street. Associated Allied Industries, a former hazardous waste site, is listed under the Wisconsin Solid & Hazardous Waste Information Management System (SHWIMS) (FID # 241807940), and Federal RCRA Non-Gen / NLR and FINDS (Facility Index System/Facility Registry System) EPA Id # W1R000001883 as of 6/13/2002, Large Quantity Generator as of 3/28/95, Waste Code: D001, Ignitable Waste, FINDS: Registry Id: 110005508520. PCE is also used as a vapor degreasing solvent in metal cleaning operations. O M believes that 0.278 ppm in the soil boring at this location may be associated with the former Associated Allied Industries. Former Associated Allied Industries, a contaminated site, is located approximately 385 feet south of the former Shop Rite grocery site and groundwater flow from the project site is northeast. Therefore, O M believes that contamination at 5151 N 32nd Street is not associated with the project site and additional soil boring is not warranted.

Drilling on Former Metro Works, 5150 N 32nd Street may not be warranted because of the following reasons.

d) The former Philips Components/Central Lab is a LUST site (BRRTS # 03-41-002039).

e) Metro Works, located to south of Philips Components, is listed under the State/Federal environmental databases of LUST, UST, CRS, AUL, Brownfields (refer to Attachment B). WDNR FID # 241032880; Status: closed; BRRTS If 03-41-391656.

f) Soil boring GP-1 was advanced along the western lot line of 5150 North 32nd property. PVOCS and GROs were not detected at 13 to 15 feet below grade. However, low levels of DROs (7.08 ppm) were detected. Therefore, petroleum contamination along west lot line appears to have been delineated.

g) Central Lab, listed as RCRA NonGen/NLR, NY Manifest sites, was used to store and use the spent halogenated chlorinated solvents (Tetrtachloroethylene; Trichloroethylene; Methylene Chloride; 1,1,1-Trichloroethane; Carbon tetrachloride; and Chlorinated fluorocarbons) in degreasing. Also large quantity generatort (LQG) Waste Code: F001 NY Maanifest: EPA ID # WID0061024

Chlorinated solvents were detected in monitoring wells MW-1, MW-3, MW-4, PZ-1, and PZ-2. Therefore, these wells will be tested for VOCs in August 2016.

Chlorinated solvents were not detected in monitoring wells MW-2, MW-5, MW-6, and MW-7. Therefore, these wells will be tested for PVOCs in August 2016.

Please contact at raghuom@gmail.com or (262) 853-0712 if you need any additional information. Thank you for your cooperation

Sincerely,

OM ENTERPRISES, INC.

Raghu B. Singh, Ph. D.
Project Scientist

Enclosures:

Figure 1: Site Location and Existing Soil Borings and Monitoring Wells
Table 1: Nomenclature of Soil Borings and Monitoring Wells
Table 2A: Summary of Soil Quality Test Results (Soil Boring B-1 through B-4)
Table 2B: Summary of Soil Quality Test Results (Soil Boring B-5 through B-7)
Table 2C: Summary of Soil Quality Test Results (Soil Boring B-8 through B-9)

Table 3A: RCLs (Soil Boring B-1, S-2, 3.5 to 5.5 feet)
Table 3B: RCLs (Soil Boring B-3, S-1, 1 to 3 feet)
Table 3C: RCLs (Soil Boring B-3, S-3, 6 to 8 feet)
Table 3D: RCLs (Soil Boring B-4, S-3, 6 to 8 feet)
Table 3E: RCLs (Soil Boring B-5, S-1, 0 to 2 feet)
Table 3F: RCLs (Soil Boring B-5, S-2, 2 to 4 feet)
Table 3G: RCLs (Soil Boring B-6, S-1, 0 to 2 feet)
Table 3H: RCLs (Soil Boring B-6, S-2, 2 to 4 feet)
Table 3I: RCLs (Soil Boring B-7, S-1, 0 to 2 feet)
Table 3J: RCLs (Soil Boring B-7, S-2, 2 to 4 feet)
Table 3K: RCLs (Soil Boring B-8, S-1, 0 to 2 feet)
Table 3L: RCLs (Soil Boring B-8, S-2, 2 to 4 feet)
Table 3M: RCLs (Soil Boring B-9, S-1, 0 to 2 feet)
Table 3N: RCLs (Soil Boring B-9, S-2, 2 to 4 feet)

Table 4A: Summary of Groundwater Quality Test Results for MW-1
Table 4B: Summary of Groundwater Quality Test Results for MW-2
Table 4C: Summary of Groundwater Quality Test Results for MW-3
Table 4D: Summary of Groundwater Quality Test Results for MW-4
Table 4E: Summary of Groundwater Quality Test Results for MW-5
Table 4F: Summary of Groundwater Quality Test Results for MW-6
Table 4G: Summary of Groundwater Quality Test Results for MW-7
Table 4H: Summary of Groundwater Quality Test Results for PZ-1
Table 4I: Summary of Groundwater Quality Test Results for PZ-2
Table 5: Summary of Groundwater Elevations

Appendix A: Boring Logs of B-5, B-6, B-7, B-8, and B-9
Well Construction Reports of MW-5, MW-6, MW-7, PZ-1, and PZ-2
Well Development Forms of MW-5, MW-6, MW-7, PZ-1, and PZ-2
Appendix B: Laboratory Test Results of B-5, B-6, B-7, B-8, and B-9
Appendix C: RCLs Calculations
Appendix D: Groundwater Quality Test Results
Appendix E: Grain Size Analysis and Hydraulic Conductivity Testing

CC: Mr. Faraj A. Jaber/Owner, 3217 W Villard Avenue, Milwaukee, WI 53209

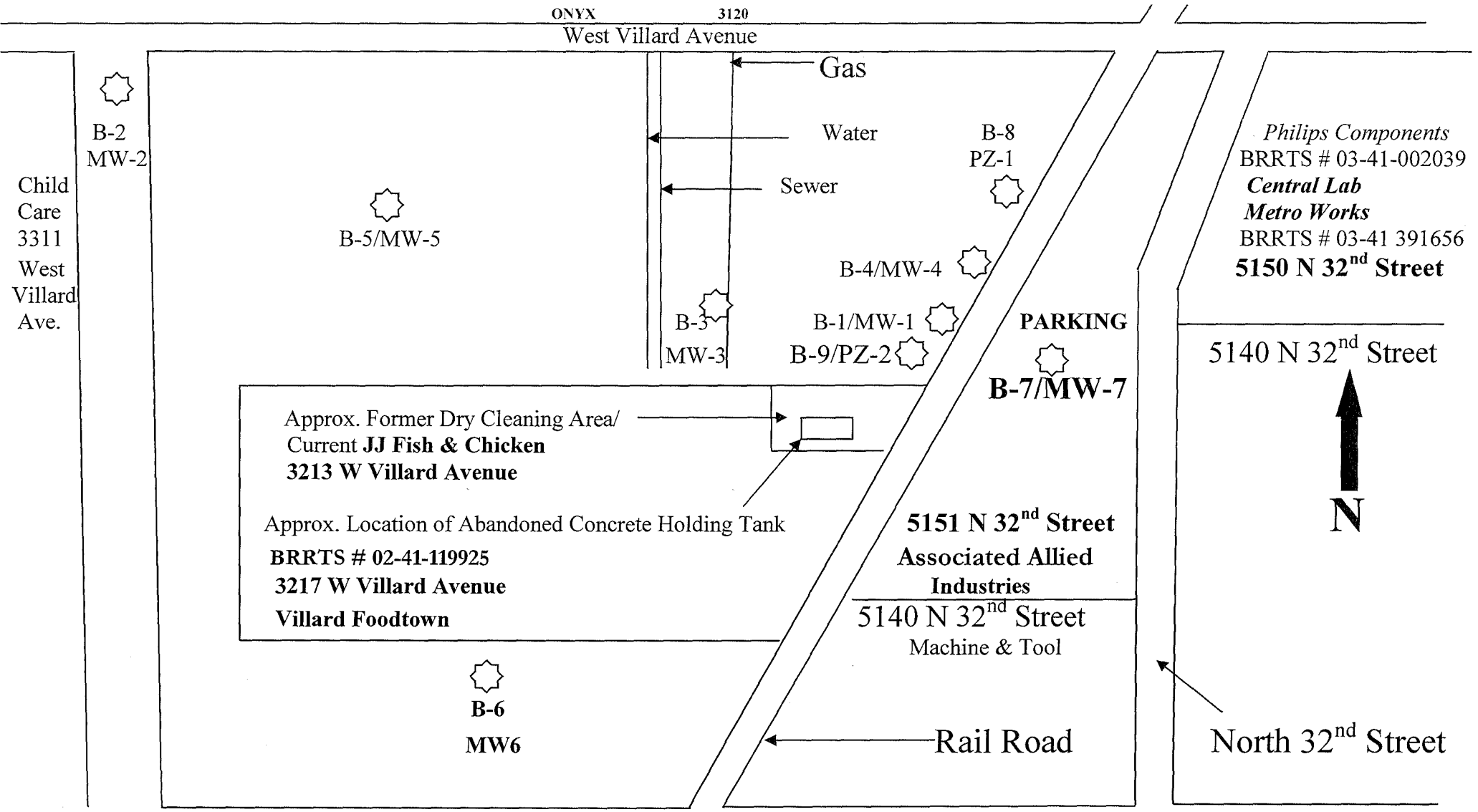

Figure 1: Site Location and Existing Soil Borings and Monitoring Wells

Existing Monitoring Well ⬡	**Date: 7/10/2016**	Scale: Not to Scale

O M Enterprises, Inc.
124 W Scott Street, Fond du Lac, WI 54935

Table 1

Nomenclature of Soil Borings and Monitoring Wells

BRRTS #	02-41-119925
FID #	241692110
SITE NAME:	Villard Foodtown/Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

Soil Boring Id.	Monitoring Well Id.	Date Well Installed	Well Depth Feet	Screen Length Feet	Surface Elevation MSL	PVC Elevation MSL	Screen Botton Elevation MSL	Screen Top Elevation MSL
B-1	MW-1	9/20/1991	25.00	10.00	651.32	650.84	626.32	636.32
B-2	MW-2	9/20/1991	25.00	10.00	651.65	651.12	626.65	636.65
B-3	MW-3	3/9/1993	15.00	10.00	650.70	650.30	635.70	645.70
B-4	MW-4	3/9/1993	15.00	10.00	650.37	649.97	635.37	645.37
B-5	MW-5	4/7/2016	15.00	15.00				
B-6	MW-6	4/7/2016	15.00	15.00				
B-7	MW-7	4/7/2016	15.00	15.00				
B-8	PZ-1	4/8/2016	25.00	5.00				
B-9	PZ-2	4/8/2016	25.00	5.00				

Table 2A

Summary of Soil Quality Test Results (Soil Boring B-1 through B-4)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	4/01/2015

BORING #	B-1/MW-1		B-2/MW-2	B-3/MW-3		B-4/MW-4		Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	2.88		2.93					Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
Date Collected	9/20/1991	9/20/1991	9/20/1991	3/3/1993	3/3/1993	3/3/1993	3/3/1993				
SAMPLE IDENTIFICATION	B-1, S-2	B-1, S-7	B-2, S-7	B-3, S-1	B-3, S-3	B-4, S-3	B-4, S-4				
SAMPLE DEPTH (ft below ground surface)	3.5 to 5.5	16 to 18	16 to 18	1 to 3	6 to 8	6 to 8	8.5 to 10	Flag E = Individual Exceedance	Hazrd Quotient (HQ) from Data	Cancer Risk (CR) from Data	Flag E = Individual Exceedance
SOIL TYPE	FILL	CLAY	CLAY	FILL	CLAY	CLAY	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Benzene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Ethbylbenzene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Toluene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Xylene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015				
PCE (Tetrachloroethene)	37	140	< 0.005	0.0330	< 0.005	23	0.033				
TCE (Trichloroethylene)	3.00	0.42	< 0.005	0.0077	< 0.005	0.49	0.0090				
cis 1, 2 Dichlortoethene (DCE)	2.80	< 0.02	< 0.005	0.0084	0.0360	0.07	0.022				
VC (VinylChloride)	0.031	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.026				

Table 2B

Summary of Soil Quality Test Results (Soil Boring B-5 through B-7)

BRRTS #	02-41-119925	FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)	
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209	
RCLs Calculated:	5/06/2016	

BORING #	B-5/MW-5		B-6/MW-6		B-7/MW-7		Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	3.10	3.10	2.90	2.90	1.98	1.98				
Date Collected	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016				
SAMPLE IDENTIFICATION	S-1	S-2	S-1	S-2	S-1	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	2 to 4	0 to 2	2 to 4	0 to 2	2 to 4	Flag E = Individual Exceedance	Hazrd Quotient (HQ) from Data	Cancer Risk (CR) from Data	Flag E = Individual Exceedance
SOIL TYPE	FILL	CLAY	FILL	CLAY	CLAY	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	ppm	ppm	ppm	ppm	ppm				
Benzene	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016				
Ethbylbenzene	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027				
Toluene	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031				
Xylene	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099				
PCE (Tetrachloroethene)	0.320	0.400	0.153 "J"	0.180	0.278	0.340				
TCE (Trichloroethylene)	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042				
cis 1, 2 Dichlortoethene (DCE)	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021				
VC (VinylChloride)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				

Table 2C

Summary of Soil Quality Test Results (Soil Boring B-8 through B-9)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-8/PZ-1		B-9/PZ-2		Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	8.72	8.72	7.25	7.25				
Date Collected	4/8/2016	4/8/2016	4/8/2016	4/8/2016				
SAMPLE IDENTIFICATION	S-1	S-2	S-1	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	2 to 4	0 to 2	2 to 4	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	FILL	CLAY	CLAY	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	ppm	ppm	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.08	< 0.32	< 0.016	< 0.016				
Ethbylbenzene	< 0.135	< 0.54	< 0.027	< 0.027				
Toluene	< 0.155	< 0.62	< 0.031	< 0.031				
Xylene	< 0.499	< 1.98	< 0.099	< 0.099				
PCE (Tetrachloroethene)	11.100	88.000	0.278	9.300				
TCE (Trichloroethylene)	0.95	12.00	< 0.042	0.206				
cis 1, 2 Dichlortoethene (DCE)	0.33 "J"	14.10	< 0.021	0.0265 "J"				
VC (VinylChloride)	< 0.05	< 0.2	< 0.01	< 0.01				

Table 3A

RCLs (Soil Boring B-1, S-2, 3.5 to 5.5 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	4/01/2015

BORING #	B-1/MW-1	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	2.88				
Date Collected	9/20/1991				
SAMPLE IDENTIFICATION	B-1, S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	3.5 to 5.5	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	FILL				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.005	No	0	3.4 E - 09	No
Ethbylbenzene	< 0.005	No	0	6.7 E - 10	No
Toluene	< 0.005	No	0	No	No
Xylene	< 0.015	No	0	No	No
PCE (Tetrachloroethene)	37	Exceedance	0.3217	1.2 E - 06	Exceedance
TCE (Trichloroethylene)	3.00	Exceedance	0.4959	2.4 E - 06	Exceedance
cis 1, 2 Dichlortoethene (DCE)	2.80	No	0.0179	No	Exceedance
VC (VinylChloride)	0.031	No	0.0003	4.6 E - 07	Exceedance

Table 3B

RCLS (Soil Boring B-3, S-1, 1 to 3 feet)

BRRTS # 02-41-119925 FID # 241692110	**Page 1 of 1**
SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)	
SITE ADDRESS: 3217 W Vilard Avenue, Milwaukee, WI 53209	
RCLs Calculated: 4/01/2015	

BORING #	B-3/MW-3	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)		Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
Date Collected	3/3/1993				
SAMPLE IDENTIFICATION	B-3, S-1				
SAMPLE DEPTH (ft below ground surface)	1 to 3	Flag E = Individual	Hazrd Quotient (HQ) from Data	Cancer Risk (CR) from Data	Flag E = Individual
SOIL TYPE	FILL				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance			Exceedance
Benzene	< 0.005	No	0	3.4 E - 09	No
Ethbylbenzene	< 0.005	No	0	6.7 E - 10	No
Toluene	< 0.005	No	0	No	No
Xylene	< 0.015	No	0	No	No
PCE (Tetrachloroethene)	0.0330	No	0.0003	1.1 E - 09	Exceedance
TCE (Trichloroethylene)	0.0077	No	0.0013	6.1 E - 09	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.0084	No	0.0001	No	No
VC (VinylChloride)	< 0.005	No	0.0001	7.5 E - 08	Exceedance

Table 3C

RCLs (Soil Boring B-3, S-3, 6 to 8 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	4/01/2015

BORING #	B-3/MW-3	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)					
Date Collected	3/3/1993				
SAMPLE IDENTIFICATION	B-3, S-3	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	6 to 8	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.005	No	0	3.4 E - 09	No
Ethbylbenzene	< 0.005	No	0	6.7 E - 10	No
Toluene	< 0.005	No	0	No	No
Xylene	< 0.015	No	0	No	No
PCE (Tetrachloroethene)	< 0.005	No	0.0003	1.1 E - 09	Exceedance
TCE (Trichloroethylene)	< 0.005	No	0.0008	4.0 E - 09	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.0360	No	0.0002	No	No
VC (VinylChloride)	< 0.005	No	0.0001	7.5 E - 08	Exceedance

Table 3D

RCLs (Soil Boring B-4, S-3, 6 to 8 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	4/01/2015

BORING #	B-4/MW-4	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)					
Date Collected	3/3/1993				
SAMPLE IDENTIFICATION	B-4, S-3	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	6 to 8	Flag E =	Hazrd Quotient	Cancer Risk	Flag E =
SOIL TYPE	CLAY	Individual	(HQ)	(CR) from	Individual
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.005	No	0	3.4 E - 09	No
Ethbylbenzene	< 0.005	No	0	6.7 E - 10	No
Toluene	< 0.005	No	0	No	No
Xylene	< 0.015	No	0	No	No
PCE (Tetrachloroethene)	23	No	0.2000	7.5 E - 07	Exceedance
TCE (Trichloroethylene)	0.49	No	0.0810	3.9 E - 07	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.07	No	0.0004	No	Exceedance
VC (VinylChloride)	< 0.05	No	0.0001	7.5 E - 08	Exceedance

Table 3D

RCLs (Soil Boring B-4, S-3, 6 to 8 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	4/01/2015

BORING #	B-4/MW-4	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)					
Date Collected	3/3/1993				
SAMPLE IDENTIFICATION	B-4, S-3	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	6 to 8	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.005	No	0	3.4 E - 09	No
Ethbylbenzene	< 0.005	No	0	6.7 E - 10	No
Toluene	< 0.005	No	0	No	No
Xylene	< 0.015	No	0	No	No
PCE (Tetrachloroethene)	23	No	0.2000	7.5 E - 07	Exceedance
TCE (Trichloroethylene)	0.49	No	0.0810	3.9 E - 07	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.07	No	0.0004	No	Exceedance
VC (VinylChloride)	< 0.05	No	0.0001	7.5 E - 08	Exceedance

Table 3E

RCLs (Soil Boring B-5, S-1, 0 to 2 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-5/MW-5	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	3.10				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-1	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	FILL				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	0	No
Xylene	< 0.099	No	0.0001	0	No
PCE (Tetrachloroethene)	0.320	No	0.0028	1.0 E-08	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3F

RCLs (Soil Boring B-5, S-2, 2 to 4 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-5/MW-5	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	3.10				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	2 to 4	Flag E =	Hazrd Quotient	Cancer Risk	Flag E =
SOIL TYPE	CLAY	Individual	(HQ)	(CR) from	Individual
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.400	No	0.0035	1.3 E-08	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3G

RCLs (Soil Boring B-6, S-1, 0 to 2 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-6/MW-6	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	2.90				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-1	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	FILL				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.153 "J"	No	0.0013	5.0 E09	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3H

RCLs (Soil Boring B-6, S-2, 2 to 4 feet)

BRRTS #	02-41-119925	FID # 241692110
SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)		
SITE ADDRESS: 3217 W Vilard Avenue, Milwaukee, WI 53209		
RCLs Calculated: 5/06/2016		

BORING #	B-6/MW-6	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	2.90				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	2 to 4	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.180	No	0.0016	3.3 E-08	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3I

RCLs (Soil Boring B-7, S-1, 0 to 2 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-7/MW-7	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	1.98				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-1	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.278	No	0.0024	9.1 E-09	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0/0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3J

RCLS (Soil Boring B-7, S-2, 2 to 4 feet))

BRRTS # 02-41-119925 FID # 241692110
SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS: 3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated: 5/06/2016

BORING #	B-7/MW-7	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	1.98				
Date Collected	4/7/2016				
SAMPLE IDENTIFICATION	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	2 to 4	Flag E =	Hazrd Quotient	Cancer Risk	Flag E =
SOIL TYPE	CLAY	Individual	(HQ)	(CR) from	Individual
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.340	No	0.003	1.1 E-08	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3K

RCLs (Soil Boring B-8, S-1, 0 to 2 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-8/PZ-1	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	8.72				
Date Collected	4/8/2016				
SAMPLE IDENTIFICATION	S-1	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	FILL				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.08	No	0.0007	5.4 E-08	Exceedance
Ethbylbenzene	< 0.135	No	0	1.8 E-08	No
Toluene	< 0.155	No	0	No	No
Xylene	< 0.499	No	0.0006	No	No
PCE (Tetrachloroethene)	11.100	No	0.0965	3.6 E-07	Exceedance
TCE (Trichloroethylene)	0.95	No	0.157	7.5 E-07	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.33 "J"	No	0.0021	No	Exceedance
VC (VinylChloride)	< 0.05	No	0.0005	7.5 E-07	Exceedance

Table 3L

RCLs (Soil Boring B-8, S-2, 2 to 4 feet)

BRRTS # 02-41-119925 FID # 241692110	
SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)	
SITE ADDRESS: 3217 W Vilard Avenue, Milwaukee, WI 53209	
RCLs Calculated: 5/06/2016	

BORING #	B-8/PZ-1	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	8.72				
Date Collected	4/8/2016				
SAMPLE IDENTIFICATION	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	2 to 4	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.32	No	0.0029	2.1 E-07	Exceedance
Ethbylbenzene	< 0.54	No	0.0001	7.2 E-08	No
Toluene	< 0.62	No	0.0001	No	No
Xylene	< 1.98	No	0.0022	No	No
PCE (Tetrachloroethene)	88.000	Exceedance	0.7652	2.9 E-06	Exceedance
TCE (Trichloroethylene)	12.00	Exceedance	1.9835	9.5 E-06	Exceedance
cis 1, 2 Dichlortoethene (DCE)	14.10	No	0.0904	No	Exceedance
VC (VinylChloride)	< 0.2	Exceedance	0.0021	3.0 E-06	Exceedance

Table 3M

RCLS (Soil Boring B-9, S-1, 0-2 feet)

BRRTS # 02-41-119925 FID # 241692110	
SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)	
SITE ADDRESS: 3217 W Vilard Avenue, Milwaukee, WI 53209	
RCLs Calculated: 5/06/2016	

BORING #	B-9/PZ-2	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	7.25				
Date Collected	4/8/2016				
SAMPLE IDENTIFICATION	S-1	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	0 to 2	Flag E = Individual	Hazrd Quotient (HQ)	Cancer Risk (CR) from	Flag E = Individual
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm	Exceedance	from Data	Data	Exceedance
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	0.278	No	0.0024	9.1 E-09	Exceedance
TCE (Trichloroethylene)	< 0.042	No	0.0069	3.3 E-08	Exceedance
cis 1, 2 Dichlortoethene (DCE)	< 0.021	No	0.0001	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 3N

RCLs (Soil Boring B-9, S-2, 2 to 4 feet)

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) / Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Vilard Avenue, Milwaukee, WI 53209
RCLs Calculated:	5/06/2016

BORING #	B-9/PZ-2	Soil Residual Contaminants (mg/kg)			
DEPTH to Seasonal Low Water Table (ft BGS)	7.25				
Date Collected	4/8/2016				
SAMPLE IDENTIFICATION	S-2	Non-Indus Direct Contact (ppm)			Soil to GW (ppm)
SAMPLE DEPTH (ft below ground surface)	2 to 4	Flag E = Individual Exceedance	Hazrd Quotient (HQ) from Data	Cancer Risk (CR) from Data	Flag E = Individual Exceedance
SOIL TYPE	CLAY				
Parameters & Concentrations in mg/kg (or ppm)	ppm				
Benzene	< 0.016	No	0.0001	1.1 E-08	Exceedance
Ethbylbenzene	< 0.027	No	0	3.6 E-09	No
Toluene	< 0.031	No	0	No	No
Xylene	< 0.099	No	0.0001	No	No
PCE (Tetrachloroethene)	9.300	No	0.0809	3.0 E-07	Exceedance
TCE (Trichloroethylene)	0.206	No	0.034	1.6 E-07	Exceedance
cis 1, 2 Dichlortoethene (DCE)	0.0265 "J"	No	0.0002	No	No
VC (VinylChloride)	< 0.01	No	0.0001	1.5 E-07	Exceedance

Table 4A

Summary of Groundwater Quality Test Results for MW-1

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

Date Installed	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991		
Well Depth (FEET)	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Screen Length (FEET)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
Surface Elevation (MSL)	651.32	651.32	651.32	651.32	651.32	651.32	651.32	651.32		
PVC Elevation (MSL)	650.84	650.84	650.84	650.84	650.84	650.84	650.84	650.84		
Bottom of Screen Elevation (MSL)	626.32	626.32	626.32	626.32	626.32	626.32	626.32	626.32		
Top of Screen Elevation (MSL)	636.32	636.32	636.32	636.32	636.32	636.32	636.32	636.32		
Elevation of Screened Interval (MSL)										
Depth to Groundwater (FEET)	2.88									
Groundwater Elevation (MSL)	647.96								Chapter NR 140	
Date Collected	10/1/1991	4/14/1993	5/19/1993	4/13/2015	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	< 1.0	< 1.0	< 1.0	**< 88**	**< 88**				**5**	*0.5*
Chlorodibromomethane	< 250	< 100	< 25	< 90	< 90				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	**560**	**960**	**780**	**2410**	**2260**				**70**	*7*
Ethbylbenzene	< 1.0	< 1.0	< 1.0	*< 142*	*< 142*				**700**	*140*
PCE (Tetrachloroethene)	**14000**	**38000**	**34000**	**21200**	**22100**				**5**	*0.5*
Toluene	16	4.1	12.0	< 88	< 88				**800**	*160*
TCE (Trichloroethylene)	**220**	**960**	**700**	**3400**	**2940**				**5**	*0.5*
VC (VinylChloride)	**11**	**33**	**14**	**84 "J"**	**104 "J"**				**0.2**	*0.02*
Xylenes	< 3.0	< 3.0	< 3.0	*< 620*	*< 620*				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4B

Summary of Groundwater Quality Test Results for MW-2

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

Date Installed	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991	9/20/1991		
Well Depth (FEET)	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Screen Length (FEET)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
Surface Elevation (MSL)	651.32	651.32	651.32	651.32	651.32	651.32	651.32	651.32	651.32		
PVC Elevation (MSL)	650.84	650.84	650.84	650.84	650.84	650.84	650.84	650.84	650.84		
Bottom of Screen Elevation (MSL)	626.32	626.32	626.32	626.32	626.32	626.32	626.32	626.32	626.32		
Top of Screen Elevation (MSL)	636.32	636.32	636.32	636.32	636.32	636.32	636.32	636.32	636.32		
Elevation of Screened Interval (MSL)	626.65-636.65										
Depth to Groundwater (FEET)	2.93										
Groundwater Elevation (MSL)	647.91									Chapter NR 140	
Date Collected	10/1/1991	4/14/1993	5/19/1993	4/13/2015	4/13/2015	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	ppb	ppb				**ES**	*PAL*
Benzene	< 1.0	< 1.0	< 1.0	< 0.44	< 0.44	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 1.0	< 1.0	< 1.0	< 0.45	< 0.45	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	< 1.0	< 1.0	< 1.0	< 0.45	< 0.45	< 0.45				**70**	*7*
Ethbylbenzene	< 1.0	< 1.0	< 1.0	< 0.71	< 0.71	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	< 1.0	< 1.0	< 1.0	< 0.74	< 0.74	< 0.49				**5**	*0.5*
Toluene	< 1.0	< 1.0	< 1.0	< 0.44	< 0.44	< 0.44				**800**	*160*
TCE (Trichloroethylene)	< 1.0	< 1.0	< 1.0	< 0.47	< 0.47	< 0.47				**5**	*0.5*
VC (VinylChloride)	< 1.0	< 1.0	< 1.0	< 0.17	< 0.17	< 0.17				**0.2**	*0.02*
Xylenes	< 3.0	< 3.0	< 3.0	< 3.1	< 3.1	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4C

Summary of Groundwater Quality Test Results for MW-3

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	MW-3								
Date Installed	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993		
Well Depth (FEET)	15.00	15.00	15.00	15.00	15.00	15.00	15.00		
Screen Length (FEET)	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
Surface Elevation (MSL)	650.70	650.70	650.70	650.70	650.70	650.70	650.70		
PVC Elevation (MSL)	650.30	650.30	650.30	650.30	650.30	650.30	650.30		
Bottom of Screen Elevation (MSL)	635.70	635.70	635.70	635.70	635.70	635.70	635.70		
Top of Screen Elevation (MSL)	645.70	645.70	645.70	645.70	645.70	645.70	645.70		
Elevation of Screened Interval (MSL)	635.70-645.70								
Depth to Groundwater (FEET)									
Groundwater Elevation (MSL)								Chapter NR 140	
Date Collected	4/14/1993	5/19/1993	4/13/2015	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb				**ES**	*PAL*
Benzene	< 1.0	< 1.0	< 0.44	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 1.0	< 1.0	< 0.45	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	**180**	**190**	*11.90*	*5.90*				**70**	*7*
Ethbylbenzene	< 1.0	< 1.0	< 0.71	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	< 1.0	< 1.0	< 0.74	1.17 "J"				**5**	*0.5*
Toluene	< 1.0	< 1.0	< 0.44	< 0.44				**800**	*160*
TCE (Trichloroethylene)	< 1.0	< 1.0	*0.69 "J"*	*0.66 "J"*				**5**	*0.5*
VC (VinylChloride)	< 1.0	**4.8**	**4.4**	**2.01**				**0.2**	*0.02*
Xylenes	< 3.0	< 3.0	< 3.1	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4D

Summary of Groundwater Quality Test Results for MW-4

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	MW-4								
Date Installed	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993	3/9/1993		
Well Depth (FEET)	15.00	15.00	15.00	15.00	15.00	15.00	15.00		
Screen Length (FEET)	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
Surface Elevation (MSL)	650.37	650.37	650.37	650.37	650.37	650.37	650.37		
PVC Elevation (MSL)	649.97	649.97	649.97	649.97	649.97	649.97	649.97		
Bottom of Screen Elevation (MSL)	635.37	635.37	635.37	635.37	635.37	635.37	635.37		
Top of Screen Elevation (MSL)	645.37	645.37	645.37	645.37	645.37	645.37	645.37		
Elevation of Screened Interval (MSL)	635.37-645.37								
Depth to Groundwater (FEET)									
Groundwater Elevation (MSL)								Chapter NR 140	
Date Collected	4/14/1993	5/19/1993	4/13/2015	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb				**ES**	*PAL*
Benzene	< 1.0	< 1.0	*< 4.4*	*< 4.4*				**5**	*0.5*
Chlorodibromomethane	< 100	< 25	< 4.5	< 4.5				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	**1100**	**920**	**530**	**313**				**70**	*7*
Ethbylbenzene	< 1.0	< 1.0	< 7.1	< 7.1				**700**	*140*
PCE (Tetrachloroethene)	**2900**	**2400**	**39**	**44**				**5**	*0.5*
Toluene	10	8.2	< 4.4	< 4.4				**800**	*160*
TCE (Trichloroethylene)	**440**	**380**	**33**	**24.60**				**5**	*0.5*
VC (VinylChloride)	**42**	**48**	**63**	**60**				**0.2**	*0.02*
Xylenes	< 3.0	< 3.0	< 31	< 31				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4E

Summary of Groundwater Quality Test Results for MW-5

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	B-5/MW-5					
Date Installed	4/7/2016	4/7/2016	4/7/2016	4/7/2016		
Well Depth (FEET)	15.00	15.00	15.00	15.00		
Screen Length (FEET)	15.00	15.00	15.00	15.00		
Surface Elevation (MSL)						
PVC Elevation (MSL)						
Bottom of Screen Elevation (MSL)						
Top of Screen Elevation (MSL)						
Elevation of Screened Interval (MSL)						
Depth to Groundwater (FEET)						
Groundwater Elevation (MSL)					Chapter NR 140	
Date Collected	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	< 0.45				**70**	*7*
Ethbylbenzene	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	< 0.49				**5**	*0.5*
Toluene	< 0.44				**800**	*160*
TCE (Trichloroethylene)	< 0.47				**5**	*0.5*
VC (VinylChloride)	< 0.17				**0.2**	*0.02*
Xylenes	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4F

Summary of Groundwater Quality Test Results for MW-6

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	B-6/MW-6					
Date Installed	4/7/2016	4/7/2016	4/7/2016	4/7/2016		
Well Depth (FEET)	15.00	15.00	15.00	15.00		
Screen Length (FEET)	15.00	15.00	15.00	15.00		
Surface Elevation (MSL)						
PVC Elevation (MSL)						
Bottom of Screen Elevation (MSL)						
Top of Screen Elevation (MSL)						
Elevation of Screened Interval (MSL)						
Depth to Groundwater (FEET)						
Groundwater Elevation (MSL)					Chapter NR 140	
Date Collected	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	< 0.45				**70**	*7*
Ethbylbenzene	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	< 0.49				**5**	*0.5*
Toluene	< 0.44				**800**	*160*
TCE (Trichloroethylene)	< 0.47				**5**	*0.5*
VC (VinylChloride)	< 0.17				**0.2**	*0.02*
Xylenes	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4G

Summary of Groundwater Quality Test Results for MW-7

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	B-7/MW-7					
Date Installed	4/7/2016	4/7/2016	4/7/2016	4/7/2016		
Well Depth (FEET)	15.00	15.00	15.00	15.00		
Screen Length (FEET)	15.00	15.00	15.00	15.00		
Surface Elevation (MSL)						
PVC Elevation (MSL)						
Bottom of Screen Elevation (MSL)						
Top of Screen Elevation (MSL)						
Elevation of Screened Interval (MSL)						
Depth to Groundwater (FEET)						
Groundwater Elevation (MSL)					Chapter NR 140	
Date Collected	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	< 0.45				**70**	*7*
Ethbylbenzene	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	< 0.49				**5**	*0.5*
Toluene	< 0.44				**800**	*160*
TCE (Trichloroethylene)	< 0.47				**5**	*0.5*
VC (VinylChloride)	< 0.17				**0.2**	*0.02*
Xylenes	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4H

Summary of Groundwater Quality Test Results for PZ-1

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	B-8/PZ-1					
Date Installed	4/8/2016	4/8/2016	4/8/2016	4/8/2016		
Well Depth (FEET)	25.00	25.00	25.00	25.00		
Screen Length (FEET)	5.00	5.00	5.00	5.00		
Surface Elevation (MSL)						
PVC Elevation (MSL)						
Bottom of Screen Elevation (MSL)						
Top of Screen Elevation (MSL)						
Elevation of Screened Interval (MSL)						
Depth to Groundwater (FEET)						
Groundwater Elevation (MSL)					Chapter NR 140	
Date Collected	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	< 0.44				**5**	*0.5*
Chlorodibromomethane	< 0.45				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	**84**				**70**	*7*
Ethbylbenzene	< 0.71				**700**	*140*
PCE (Tetrachloroethene)	**75**				**5**	*0.5*
Toluene	< 0.44				**800**	*160*
TCE (Trichloroethylene)	**20.20**				**5**	*0.5*
VC (VinylChloride)	**0.97**				**0.2**	*0.02*
Xylenes	< 3.1				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 4I

Summary of Groundwater Quality Test Results for PZ-2

BRRTS #	02-41-119925 FID # 241692110
SITE NAME:	Villard Foodtown (Current) /Shop Rite Grocery (Former)
SITE ADDRESS:	3217 W Villard Avenue, Milwaukee, WI 53209

MONITORING WELL #	B-9/PZ-2					
Date Installed	4/8/2016	4/8/2016	4/8/2016	4/8/2016		
Well Depth (FEET)	25.00	25.00	25.00	25.00		
Screen Length (FEET)	5.00	5.00	5.00	5.00		
Surface Elevation (MSL)						
PVC Elevation (MSL)						
Bottom of Screen Elevation (MSL)						
Top of Screen Elevation (MSL)						
Elevation of Screened Interval (MSL)						
Depth to Groundwater (FEET)						
Groundwater Elevation (MSL)					Chapter NR 140	
Date Collected	5/2/2016				2015, No. 715	
Concentration in ug/L (or ppb)	ppb	ppb	ppb	ppb	**ES**	*PAL*
Benzene	**< 220**				**5**	*0.5*
Chlorodibromomethane	< 225				**0.6**	*0.06*
cis 1, 2 Dichlortoethene (DCE)	**230 "J"**				**70**	*7*
Ethbylbenzene	*< 355*				**700**	*140*
PCE (Tetrachloroethene)	**39000**				**5**	*0.5*
Toluene	*< 220*				**800**	*160*
TCE (Trichloroethylene)	**670 "J"**				**5**	*0.5*
VC (VinylChloride)	**< 85**				**0.2**	*0.02*
Xylenes	*< 1550*				**2000**	*400*

Note:

Concentrations in bold (Equal to or greater than ES)

Concentrations in italics (Equal to or greater than PAL)

"J" denotes concentration between limit of detection (LOD) and limit of quantification (LOQ).

Table 5

Summary of Groundwater Elevations

BRRTS # 02-41-119925 FID # 241692110

SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)

SITE ADDRESS: 3217 W Villard Avenue, Milwaukee, WI 53209

Well Id.	Date Depth Taken	Well Depth ft.	Screen Length ft.	Surface Elevation ft. , MSL	PVC Elevation ft, MSL	Screen Bottom Elev. ft., MSL	Screen Top Elev. ft., MSL	Depth to Water ft.	GW Elevation ft., MSL	Water Above Screen ft.
MW-1	9/30/91	25.00	10.00	651.32	650.84	626.32	636.32	7.34	643.50	7.18
	10/1/91							2.88	647.96	11.64
	4/7/93							6.89	643.95	7.63
	5/19/93							9.02	641.82	5.50
	7/21/93							8.19	642.65	6.33
	9/3/93							6.72	644.12	7.80
	4/13/15							6.32	644.52	8.20
	5/1/16							6.30	644.54	8.22
MW-2	9/30/91	25.00	10.00	651.65	651.12	626.65	636.65	4.97	646.15	9.50
	10/1/91							2.93	648.19	11.54
	4/7/93							7.54	643.58	6.93
	5/19/93							8.54	642.58	5.93
	7/21/93							7.04	644.08	7.43
	9/3/93							6.80	644.32	7.67
	4/13/15							8.68	642.44	5.79
	5/1/16							8.40	642.72	5.79
MW-3	9/30/91	15.00	10.00	650.70	650.30	635.70	645.70			
	10/1/91									
	4/7/93							2.28	648.02	2.32
	5/19/93							2.98	647.32	1.62
	7/21/93							3.27	647.03	1.33
	9/3/93							3.74	646.56	0.86
	4/13/15							3.68	646.62	0.92
	5/1/16							4.23	646.07	0.37
MW-4	9/30/91	15.00	10.00	650.37	649.97	635.37	645.37			
	10/1/91									
	4/7/93							2.02	647.95	2.58
	5/19/93							2.96	647.01	1.64
	7/21/93							3.12	646.85	1.48
	9/3/93							3.53	646.44	1.07
	4/13/15							4.14	645.83	0.46
	5/1/16							4.25	645.72	0.35

Table 5

Summary of Groundwater Elevations

BRRTS # 02-41-119925 FID # 241692110

SITE NAME: Villard Foodtown (Current) / Shop Rite Grocery (Former)

SITE ADDRESS: 3217 W Villard Avenue, Milwaukee, WI 53209

Well Id.	Date Depth Taken	Well Depth ft.	Screen Length ft.	Surface Elevation ft. , MSL	PVC Elevation ft, MSL	Screen Bottom Elev. ft., MSL	Screen Top Elev. ft., MSL	Depth to Water ft.	GW Elevation ft., MSL	Water Above Screen ft.
MW-5	5/1/16	15.00	15.00					3.10	To be surveyed	
MW-6	5/1/16	15.00	15.00					2.90	To be surveyed	
MW-7	5/1/16	15.00	15.00					1.98	To be surveyed	
PZ-1	5/1/16	25.00	5.00					8.72	To be surveyed	
PZ-2	5/1/16	25.00	5.00					7.25	To be surveyed	

Appendix A

Boring Logs of B-5, B-6, B-7, B-8, and B-9
Well Construction Reports of MW-5, MW-6, MW-7, PZ-1, and PZ-2
Well Development Forms of MW-5, MW-6, MW-7, PZ-1, and PZ-2

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Villard Foodtown, LLC 3217 W Villard Ave.	License/Permit/Monitoring Number	Boring Number: B-5 / MW-5	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Gary Last Name: Wellner — Firm: PSE Menard	Date Drilling Started: 04/07/2016 (m m d d y y y y)	Date Drilling Completed: 04/07/2016	Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — NW 1/4 of SE 1/4 of Section 36, T 8 N, R 21 E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
Facility ID: 241692110	County: Milwaukee	County Code: 41	Civil Town/City/or Village: Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	18	12	2	FILL - mixture of silt, sand and gravel Top 3" asphalt.				0		M				
2	13	15	4					0		M				
3	10	27	6	SILTY CLAY (CL) - Stiff to very stiff, Brown to Grey, moist to wet-				0		M				
4	16	21	8					0		W				
5	18	18	10	Trace sand and gravel from - 6' to 14' bgs				0		W				
6	15	10	12					0		W				
7	15	12	14					0		W				
8	18	22	16					0		W				
9			18	E.O.B. @ 15' bgs Converted to MW-5										
10			20											
11			22											
12			24											
			26											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ragla B. Singh — Firm: OM Enterprises, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

LOG OF TEST BORING

Location:	3217 W Villard Avenue, Milwaukee, WI 53209	Job #: 3023	Method: HSA
Client:	Villard Foodtown, LLC	Boring/Monitoring Well:	B-5/MW-5
Drill Firm:	PSI, 1125 Tuckaway, Menasha, WI 54952	Page Number:	1 of 1

Sample No.	Blow Counts (N) 6" 1	12" 2	18" 3	24" 4	N (2+3+4)	Recovery (inch)	Moisture Level	Boring Depth (feet)	Observation, Classification, and Comments	Test Parameters PID Units	PCE ppm	TCE ppm	DCE ppm	VC ppm
1	5	4	5	3	12	18	Moist	0.5	FILL-Mixture of silt, well graded sand and poorly graded gravel; black; moist; odorless	BK	0.32	< 0.042	< 0.021	< 0.01
								1.0						
								1.5						
								2.0	odorless; Top 3" Asphalt					
2	3	5	4	6	15	13	Moist	2.5		BK	0.40	< 0.042	< 0.021	< 0.01
								3.0						
								3.5	SILTY CLAY ((CL)-Stiff to Very Stiff;					
								4.0	Brown to Grey; Moist to Wet; odorless					
3	3	17	4	6	27	10	Moist	4.5						
								5.0						
								5.5						
								6.0						
4	3	6	9	6	21	16	Wet	6.5	Trace sand and gravel noted from					
								7.0	approximately 6 feet to 14 feet below					
								7.5	ground surface					
								8.0						
5	9	3	8	7	18	18	Wet	8.5						
								9.0						
								9.5						
								10.0						
6	7	3	3	4	10	15	Wet	10.5						
								11.0						
								11.5						
								12.0						
7	7	3	3	6	12	15	Wet	12.5						
								13.0						
								13.5						
								14.0						
8	8	3	10	9	22	18	Wet	14.5						
								15.0						
								15.5	End of Boring @~ 15 ft. bgs					
								16.0	Converted into					
9								16.5	Monitoring Well MW-5					
								17.0						
								17.5						
								18.0						
10								18.5						
								19.0						
								19.5						
								20.0						
11								20.5						
								21.0						
								21.5						
								22.0						
12								22.5						
								23.0						
								23.5						
								24.0						
13								24.5						
								25.0						
								25.5						
								26.0						

Depth to Water (ft. bgs):	~ 5	**Start:**	4/7/2016	**Consulting Firm:**	**Crew Chief:** Gary Wellner
Bedrock Encountered ?	No	**End:**	4/7/2016	O M Enterprises, Inc.	**Drill Rig:** Diedrich

I, hereby, certify that the above information is true and correct to the best of my knowledge.

Name: Raghu B. Singh **Signature:** Raghu B. Singh **Date:** 5/8/2016

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Villard Fordham, LLC 3217 W Villard Ave.	License/Permit/Monitoring Number	Boring Number: B-6 / MW-6
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Gary Last Name: Wellner Firm: PSI Manager	Date Drilling Started: 04/07/2016 (mm/dd/yyyy)	Date Drilling Completed: 04/07/2016 (mm/dd/yyyy) — Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
NW 1/4 of SE 1/4 of Section 36, T 8 N, R 21 E		
Facility ID: 241692110	County: Milwaukee	County Code: 41 — Civil Town/City/or Village: Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	10	12	2	FILL-Mix of Silt & Gravel, 3" Asph				0		M				
2	16	10	4	SILTY CLAY (CL) - Stiff to very Stiff; Brown, moist to wet; Trace sand and gravel from 4' to 10' bgs				6		M				
3	14	14	6					0		M				
4	17	13	8					0		M				
5	12	19	10					6		W				
6	24	32	12					0		W				
7	10	17	14					6		W				
8	14	18	16					0		W				
			18	E.O.B. @ ~ 15' bgs Converted to MW-6										
			20											
			22											
			24											
			26											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ralph B Fuge Firm: OM Enterprises

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LOG OF TEST BORING

Location:	3217 W Villard Avenue, Milwaukee, WI 53209	Job #: 3023	Method: HSA
Client:	Villard Foodtown, LLC	Boring/Monitoring Well:	B-6/MW-6
Drill Firm:	PSI, 1125 Tuckaway, Menasha, WI 54952	Page Number:	1 of 1

Sample No.	Blow Counts (N) 6" 1	12" 2	18" 3	24" 4	N (2+3+4)	Recovery (inch)	Moisture Level	Boring Depth (feet)	Observation, Classification, and Comments	Test Parameters PID Units	PCE ppm	TCE ppm	DCE ppm	VC ppm
1	2	3	5	4	12	10	Moist	0.5	FILL-Mixture of silt, sand, & gravel;	BK	0.153 "J"	< 0.042	< 0.021	< 0.01
								1.0	moist; odorless; Top 3" asphalt					
								1.5	SILTY CLAY ((CL)-Stiff to very stiff;					
								2.0	Brown; Moist to Wet; odorless					
2	3	4	2	4	10	16	Moist	2.5	Trace sand and gravel noted from	BK	0.18	< 0.042	< 0.021	< 0.01
								3.0	approximately 4 feet to 10 feet below					
								3.5	grade					
								4.0						
3	7	4	4	6	14	14	Moist	4.5						
								5.0						
								5.5						
								6.0						
4	8	3	6	4	13	17	Moist	6.5						
								7.0						
								7.5						
								8.0						
5	4	3	8	8	19	12	Wet	8.5						
								9.0						
								9.5						
								10.0						
6	6	8	10	14	32	24	Wet	10.5						
								11.0						
								11.5						
								12.0						
7	2	8	5	4	17	10	Wet	12.5						
								13.0						
								13.5						
								14.0						
8	3	4	8	6	18	14	Wet	14.5						
								15.0						
								15.5	End of Boring @~ 15 ft. bgs					
								16.0	Converted into					
9								16.5	Monitoring Well MW-6					
								17.0						
								17.5						
								18.0						
10								18.5						
								19.0						
								19.5						
								20.0						
11								20.5						
								21.0						
								21.5						
								22.0						
12								22.5						
								23.0						
								23.5						
								24.0						
13								24.5						
								25.0						
								25.5						
								26.0						

Depth to Water (ft. bgs):	~ 8	**Start:**	4/7/2016	**Consulting Firm:**	**Crew Chief:** Gary Wellner
Bedrock Encountered ?	No	**End:**	4/7/2016	O M Enterprises, Inc.	**Drill Rig:** Diedrich

I, hereby, certify that the above information is true and correct to the best of my knowledge.

Name: Raghu B. Singh **Signature:** Raghu B. Singh **Date:** 5/8/2016

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ ____________

Facility/Project Name: Villard Fortune, LLC 3217 W Villard Ave.	License/Permit/Monitoring Number	Boring Number: B-7 / MW-7
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Gary; Last Name: Wellner; Firm: PSI Menards	Date Drilling Started: 04/07/2016 (mm/dd/yyyy); Date Drilling Completed: 04/07/2016 (mm/dd/yyyy)	Drilling Method: HSA
WI Unique Well No. ____; DNR Well ID No. ____; Well Name	Final Static Water Level ____ Feet MSL; Surface Elevation ____ Feet MSL	Borehole Diameter ____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐; State Plane ____ N, ____ E; NW 1/4 of SE 1/4 of Section 36, T 8 N, R 21 E	Lat ___° ___' ___"; Long ___° ___' ___"	Local Grid Location ____ ☐ N ☐ S ____ Feet; ____ Feet ☐ E ☐ W
Facility ID: 241692110; County: Milwaukee	County Code: 41	Civil Town/(City)/or Village: Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	10	17		FILL - Mix of S+S+G, 3" AM				0		M				
2	16	18	2	SILTY CLAY (CL) - Stiff to very hard; Grey to Brown, Moist to wet				0		M				
3	14	19	4					0		M				
4	17	13	6					0		M				
5	12	19	8					0		W				
6	24	32	10					0		W				
7	10	17	12					0		W				
8	14	21	14					0		W				
			16											
			18											
			20											
			22											
			24											
			26											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Raghu B. Singh   Firm: Om Enterprises

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LOG OF TEST BORING

Location:	3217 W Villard Avenue, Milwaukee, WI 53209	Job #: 3023	Method: HSA
Client:	Villard Foodtown, LLC	Boring/Monitoring Well:	B-7/MW-7/Off-Site
Drill Firm:	PSI, 1125 Tuckaway, Menasha, WI 54952	Page Number:	1 of 1

Sample No.	Blow Counts (N) 6" 1	12" 2	18" 3	24" 4	N (2+3+4)	Recovery (inch)	Moisture Level	Boring Depth (feet)	Observation, Classification, and Comments	Test Parameters PID Units	PCE ppm	TCE ppm	DCE ppm	VC ppm
1	5	3	5	9	17	10	Moist	0.5	FILL-Mixture of silt, sand, & gravel;	BK	0.278	< 0.042	< 0.021	< 0.01
								1.0	black; moist; odorless; Top 3" Asphalt					
								1.5	SILTY CLAY ((CL)-Stiff to Very Hard;					
								2.0	Grey to Brown; Moist to Wet; odorless					
2	6	4	8	6	18	16	Moist	2.5		BK	0.340	< 0.042	< 0.021	< 0.01
								3.0						
								3.5						
								4.0						
3	8	9	4	6	19	14	Moist	4.5						
								5.0						
								5.5						
								6.0						
4	8	3	6	4	13	17	Moist	6.5						
								7.0						
								7.5						
								8.0						
5	4	3	8	8	19	12	Wet	8.5						
								9.0						
								9.5						
								10.0						
6	6	8	10	14	32	24	Wet	10.5						
								11.0						
								11.5						
								12.0						
7	2	8	5	4	17	10	Wet	12.5						
								13.0						
								13.5						
								14.0						
8	6	4	8	9	21	14	Wet	14.5						
								15.0						
								15.5	End of Boring @~ 15 ft. bgs					
								16.0	Converted into					
9								16.5	Monitoring Well MW-7					
								17.0						
								17.5						
								18.0						
10								18.5						
								19.0						
								19.5						
								20.0						
11								20.5						
								21.0						
								21.5						
								22.0						
12								22.5						
								23.0						
								23.5						
								24.0						
13								24.5						
								25.0						
								25.5						
								26.0						

Depth to Water (ft. bgs):	~ 4	**Start:**	4/7/2016	**Consulting Firm:**	**Crew Chief:** Gary Wellner
Bedrock Encountered ?	No	**End:**	4/7/2016	O M Enterprises, Inc.	**Drill Rig:** Diedrich

I, hereby, certify that the above information is true and correct to the best of my knowledge.

Name: Raghu B. Singh **Signature:** Raghu B. Singh **Date:** 5/8/2016

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Villard Fulton, LLC 3217 W Villard Ave.	License/Permit/Monitoring Number	Boring Number: B-8 / PZ-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Gary Last Name: Wellner — Firm: PSE Menard	Date Drilling Started: 04/08/2016 (mm/dd/yyyy)	Date Drilling Completed: 04/08/2016 (mm/dd/yyyy)	Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N _____ Feet ☐ S ☐ E _____ Feet ☐ W	
NW 1/4 of SE 1/4 of Section 36, T 8 N, R 21 E			
Facility ID: 241692110	County: Milwaukee	County Code: 41	Civil Town/City/or Village: Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	18	13	2	FILL - mixture of silty sand and gravel				0		M				
2	21	12	4					0		W				
3	12	17	6	Top 3" asphalt				0		W				
4	16	13	8					0		W				
5	18	11	10	SILTY CLAY (CL) - stiff to very stiff				0		W				
6	19	15	12	Grey to Brown,				0		W				
7	15	10	14	Moist to wet				0		W				
8	18	20	16					0		W				
			18	wet										
			20											
			22											
			24											
			26	E.O.B. @ ~25' bgs Converted into PZ-1										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ralph B. Smyk Firm: OM Enterprises

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

LOG OF TEST BORING

Location:	3217 W Villard Avenue, Milwaukee, WI 53209	Job #: 3023	Method: HSA
Client:	Villard Foodtown, LLC	Boring/Monitoring Well:	B-8/PZ-1
Drill Firm:	PSI, 1125 Tuckaway, Menasha, WI 54952	Page Number:	1 of 1

Sample No.	Blow Counts (N) 6" 1	12" 2	18" 3	24" 4	N (2+3+4)	Recovery (inch)	Moisture Level	Boring Depth (feet)	Observation, Classification, and Comments	Test Parameters PID Units	PCE ppm	TCE ppm	DCE ppm	VC ppm
1	2	4	3	6	13	18	Moist	0.5	FILL-Mixture of silt, sand, & gravel; black; moist to wet & saturated; odorless Top 3" Asphalt	BK	11.10	0.95	0.33 "J"	< 0.05
								1.0						
								1.5						
								2.0						
2	4	2	6	4	12	21	Wet	2.5		BK	88.00	12	14.10	< 0.2
								3.0						
								3.5						
								4.0						
3	4	6	3	8	17	12	Wet	4.5						
								5.0						
								5.5						
								6.0						
4	3	5	2	6	13	16	Wet	6.5						
								7.0						
								7.5						
								8.0						
5	4	6	3	2	11	18	Wet	8.5	SILTY CLAY ((CL)-Stiff to Very Stiff; Grey to Brown; Moist to Wet; odorless					
								9.0						
								9.5						
								10.0						
6	4	5	4	6	15	19	Wet	10.5						
								11.0						
								11.5						
								12.0						
7	4	2	3	5	10	15	Wet	12.5						
								13.0						
								13.5						
								14.0						
8	3	6	9	5	20	18	Wet	14.5						
								15.0						
								15.5						
								16.0						
9								16.5						
								17.0						
								17.5						
								18.0						
10								18.5						
								19.0						
								19.5						
								20.0						
11								20.5						
								21.0						
								21.5						
								22.0						
12								22.5						
								23.0						
								23.5						
								24.0						
13								24.5						
								25.0						
								25.5	End of Boring @~ 25 ft. bgs					
								26.0	Converted into PZ-1					

Depth to Water (ft. bgs):	~ 4	**Start:**	4/8/2016	**Consulting Firm:**	**Crew Chief:** Gary Wellner
Bedrock Encountered ?	No	**End:**	4/8/2016	O M Enterprises, Inc.	**Drill Rig:** Diedrich

I, hereby, certify that the above information is true and correct to the best of my knowledge.

Raghu R. Singh **Signature:** Raghu R. Singh **Date:** 5/8/2016

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ ________

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Villard Foodtown, LLC 3217 W Villard Ave.		B-9 / PZ-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Gary Last Name: Wellner Firm: PSE Menards	04/08/2016 (mm dd yyyy)	04/08/2016 (mm dd yyyy)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane ________ N, ________ E
NW 1/4 of SE 1/4 of Section 36, T 8 N, R 21 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E; ____ Feet ☐ S ____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241692110	Milwaukee	41	(City) Milwaukee

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	21	16		FILL – mixture of silt,				0		M				
2	18	18	2	sand, and gravel				0		M				
3	15	9	4	Top 3" asphalt				0		M				
4	16	12	6	SILTY CLAY (CL) –				0		M				
5	21	12	8	Stiff to Very Stiff,				0		W				
6	14	16	10	Grey to Brown; Moist to wet				0		W				
7	19	15	12					0		W				
8	16	17	14					0		W				
			16											
			18											
			20											
			22											
			24											
			26	E.O.B @ ~25' bgs Converted into PZ-2										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Ralph B. Singh	OM Enterprises

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

LOG OF TEST BORING

Location:	3217 W Villard Avenue, Milwaukee, WI 53209	Job #: 3023	Method: HSA
Client:	Villard Foodtown, LLC	Boring/Monitoring Well:	B-9/PZ-2
Drill Firm:	PSI, 1125 Tuckaway, Menasha, WI 54952	Page Number:	1 of 1

Sample No.	Blow Counts (N) 6" 1	12" 2	18" 3	24" 4	N (2+3+4)	Recovery (inch)	Moisture Level	Boring Depth (feet)	Observation, Classification, and Comments	Test Parameters PID Units	PCE ppm	TCE ppm	DCE ppm	VC ppm
1	3	5	4	7	16	21	Moist	0.5	FILL-Mixture of silt, sand, & gravel; black; moist to wet & saturated; odorless Top 3" Asphalt	BK	0.278	< 0.042	< 0.21	< 0.01
								1.0						
								1.5						
								2.0						
2	2	4	5	9	18	18	Moist	2.5		BK	9.30	0.206	0.0265 "j"	< 0.1
								3.0						
								3.5						
								4.0						
3	6	2	3	4	9	15	Moist	4.5						
								5.0						
								5.5						
								6.0						
4	4	2	3	7	12	16	Moist	6.5	SILTY CLAY ((CL)-Stiff to Very Stiff; Grey to Brown; Moist to Wet; odorless					
								7.0						
								7.5						
								8.0						
5	5	2	6	4	12	21	Wet	8.5						
								9.0						
								9.5						
								10.0						
6	3	8	3	5	16	14	Wet	10.5						
								11.0						
								11.5						
								12.0						
7	6	9	2	4	15	19	Wet	12.5						
								13.0						
								13.5						
								14.0						
8	4	5	7	5	17	16	Wet	14.5						
								15.0						
								15.5						
								16.0						
9								16.5						
								17.0						
								17.5						
								18.0						
10								18.5						
								19.0						
								19.5						
								20.0						
11								20.5						
								21.0						
								21.5						
								22.0						
12								22.5						
								23.0						
								23.5						
								24.0						
13								24.5						
								25.0						
								25.5	End of Boring @~ 25 ft. bgs					
								26.0	Converted into PZ-2					

Depth to Water (ft. bgs):	~ 4	**Start:**	4/8/2016	**Consulting Firm:**	**Crew Chief:** Gary Wellner
Bedrock Encountered ?	No	**End:**	4/8/2016	O M Enterprises, Inc.	**Drill Rig:** Diedrich

I, hereby, certify that the above information is true and correct to the best of my knowledge.

Name: Raghu B. Singh **Signature:** Raghu B Singh **Date:** 5/8/2016

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ ______

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name Shop Rite 3217 W Villard Ave	Local Grid Location of Well ______ ft. ☐ N. ☐ S. ______ ft. ☐ E. ☐ W.	Well Name MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No. ______ / DNR Well ID No. ___
Facility ID 241692110	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed 04/07/2016 (m m d d y y y y)
Type of Well Well Code ___/___	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 36, T. 8 N, R. 21 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm Gary Wellen PSI
Distance from Waste/Source ______ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number ______	

A. Protective pipe, top elevation _ _ _ _ _ _ _ ft. MSL

B. Well casing, top elevation _ _ _ _ _ _ _ ft. MSL

C. Land surface elevation _ _ _ _ _ _ _ ft. MSL

D. Surface seal, bottom _ _ _ _ _ _ ft. MSL or _ _ _ _ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐ ______

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _ _ _ _ _ _ ft. MSL or _ _ _ _ _ ft.

F. Fine sand, top _ _ _ _ _ _ ft. MSL or _ _ _ _ _ ft.

G. Filter pack, top _ _ _ _ _ _ ft. MSL or _ _ _ _ _ ft.

H. Screen joint, top _ _ _ _ _ _ ft. MSL or _ _ _ 0.0 ft.

I. Well bottom _ _ _ _ _ _ ft. MSL or _ _ 15.0 ft.

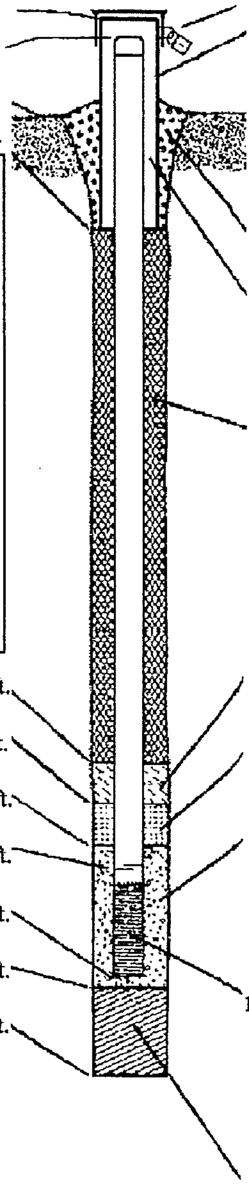
J. Filter pack, bottom _ _ _ _ _ _ ft. MSL or _ _ 15.5 ft.

K. Borehole, bottom _ _ _ _ _ _ ft. MSL or _ _ 15.5 ft.

L. Borehole, diameter _ 8.00 in.

M. O.D. well casing _ 2.25 in.

N. I.D. well casing _ 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: _ 8.0 in.
   b. Length: _ 1.0 ft.
   c. Material: Steel ☒ 0 4 / Other ☐
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: PVC Plug
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☒ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ______ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. ______ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3 1
   d. _____ % Bentonite . . . . . . Bentonite-cement grout ☐ 5 0
   e. ______ Ft³ volume added for any of the above
   f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
   c. ______ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
   a. N/A
   b. Volume added ______ ft³
8. Filter pack material: Manufacturer, product name & mesh size
   a. #30 Red Flint
   b. Volume added ______ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   Other ☐
10. Screen material: PVC
   a. Screen type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
   b. Manufacturer Johnson
   c. Slot size: 0.010 in.
   d. Slotted length: _ _ 15 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Ralph B. [illegible]	Om Enterprises Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ________

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Shop Rite, 3217 W Villard Ave	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 241692110	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed: 04/07/2016 (m m d d y y y y)
Type of Well: Well Code ___/___	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 36, T. 8 N, R. 21 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Gary Weller, PSI
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient; s ☐ Sidegradient; d ☐ Downgradient; n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ________ ft. MSL

B. Well casing, top elevation ________ ft. MSL

C. Land surface elevation ________ ft. MSL

D. Surface seal, bottom ______ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe ________

17. Source of water (attach analysis, if required): N/A

E. Bentonite seal, top ______ ft. MSL or ______ ft.

F. Fine sand, top ______ ft. MSL or ______ ft.

G. Filter pack, top ______ ft. MSL or ______ ft.

H. Screen joint, top ______ ft. MSL or 0.0 ft.

I. Well bottom ______ ft. MSL or 15.0 ft.

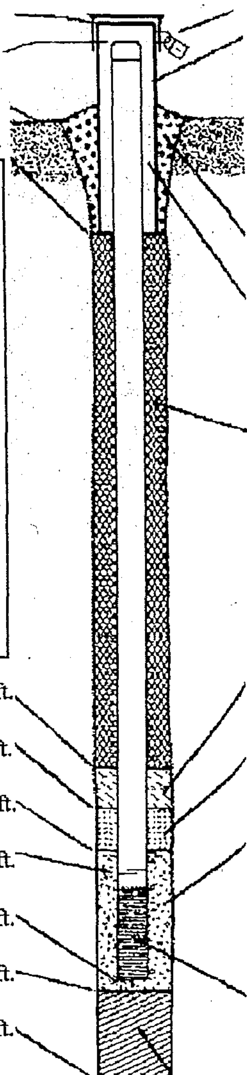
J. Filter pack, bottom ______ ft. MSL or 15.5 ft.

K. Borehole, bottom ______ ft. MSL or 15.5 ft.

L. Borehole, diameter 8.00 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04; Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: PVC Plug

3. Surface seal: Bentonite ☒ 30; Concrete ☒ 01; Other ☐

4. Material between well casing and protective pipe: Bentonite ☐ 30; Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ____ % Bentonite ...... Bentonite-cement grout ☐ 50
e. ______ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. ______ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. N/A
b. Volume added ______ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #30 Red Flint
b. Volume added ______ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Ralph B. [signature]	Om Enterprises Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Supreme, 3217 W Villard Ave	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-7
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 241692110	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 04/07/2016 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 36, T. 8 N, R. 21 ☐E ☐W	Well Installed By: Name (first, last) and Firm: Gary Wellen, PSE
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ■ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe _____

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top ____ ft. MSL or ____ ft.

F. Fine sand, top ____ ft. MSL or ____ ft.

G. Filter pack, top ____ ft. MSL or ____ ft.

H. Screen joint, top ____ ft. MSL or 0.6 ft.

I. Well bottom ____ ft. MSL or 15.6 ft.

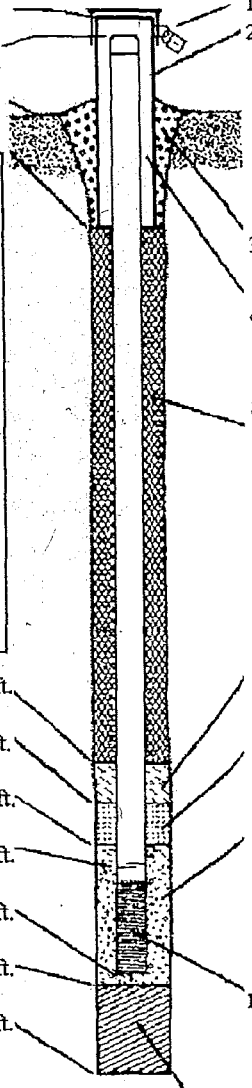
J. Filter pack, bottom ____ ft. MSL or 15.5 ft.

K. Borehole, bottom ____ ft. MSL or 15.5 ft.

L. Borehole, diameter 8.00 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.9 ft.
c. Material: Steel ■ 04 Other ☐ _____
d. Additional protection? ■ Yes ☐ No
If yes, describe: PVC Plug

3. Surface seal: Bentonite ■ 30 Concrete ■ 01 Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☐ 30 Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ■ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ■ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. N/A
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #30 Red Flint
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ■ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ■ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ■ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Roy B Sy	OM Enterprises Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ________

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Shop Rite 3217 W. Vliet St.	Local Grid Location of Well ______ ft. ☐N. ☐S. ______ ft. ☐E. ☐W.	Well Name PZ-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No. / DNR Well ID No.
Facility ID 241692110	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed 04/08/2016 (m m d d y y y y)
Type of Well: Well Code ___/___	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 36, T. 8 N, R. 21 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Gary Wellner, PSI
Distance from Waste/Source ______ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ________ ft. MSL

B. Well casing, top elevation ________ ft. MSL

C. Land surface elevation ________ ft. MSL

D. Surface seal, bottom ______ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ________

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top ______ ft. MSL or 2.00 ft.

F. Fine sand, top ______ ft. MSL or 17.0 ft.

G. Filter pack, top ______ ft. MSL or 18.0 ft.

H. Screen joint, top ______ ft. MSL or 19.5 ft.

I. Well bottom ______ ft. MSL or 24.5 ft.

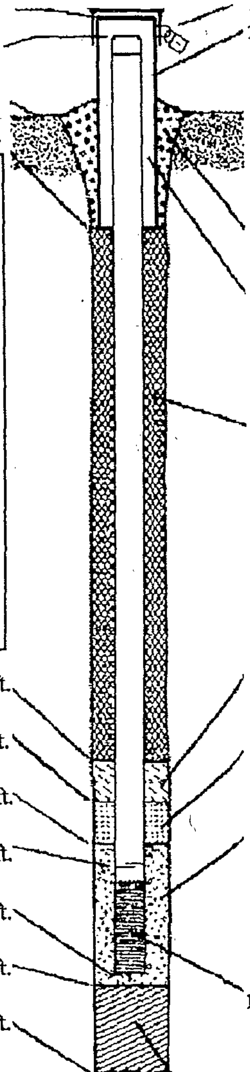
J. Filter pack, bottom ______ ft. MSL or 24.5 ft.

K. Borehole, bottom ______ ft. MSL or 24.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4; Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: PVC Plug

3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; Other ☐
Asphalt

4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Other ☒
Sand

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 3 2
c. ________ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. #45-55 Red Flint
b. Volume added ______ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #30 Red Flint
b. Volume added ______ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	OM Enterprises Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Shy Rite 3217 W Wisconsin	Local Grid Location of Well ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name PZ-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID 241692110	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed 04/08/2016 (m m d d y y y y)
Type of Well Well Code ___/___	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 36, T. 8 N, R. 21 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm Gary Weller PSI
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ________ ft. MSL
B. Well casing, top elevation ________ ft. MSL
C. Land surface elevation ________ ft. MSL
D. Surface seal, bottom ______ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

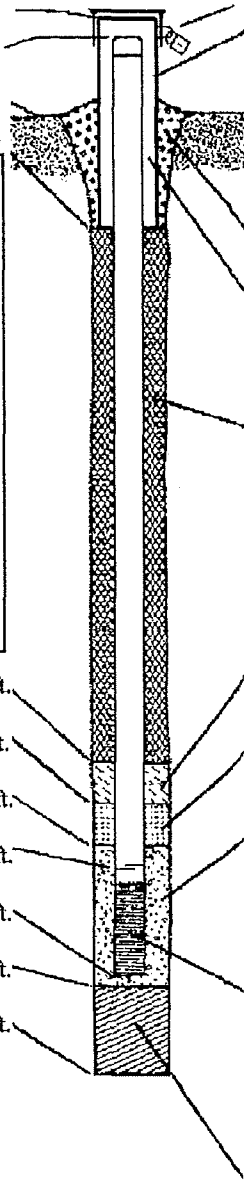
14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top ______ ft. MSL or 2.00 ft.
F. Fine sand, top ______ ft. MSL or 17.0 ft.
G. Filter pack, top ______ ft. MSL or 18.0 ft.
H. Screen joint, top ______ ft. MSL or 19.5 ft.
I. Well bottom ______ ft. MSL or 24.5 ft.
J. Filter pack, bottom ______ ft. MSL or 24.5 ft.
K. Borehole, bottom ______ ft. MSL or 24.5 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4; Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: PVC Plug
3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; Other ☐
Asphalt
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Other ☒
Sand
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. #45-55 Red Flint
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #30 Red Flint
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	OM Enterprises Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Shop Rite Grocery 3217 W Villard Ave	Milwaukee	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
FID# 241692110	41	_____	_____

1. Can this well be purged dry? ■ Yes ☐ No

2. Well development method

surged with bailer and bailed	■ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 14.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ~15.7 gal.

7. Volume of water removed from well ~18.5 gal.

8. Volume of water added (if any) N/A ____.__ gal.

9. Source of water added N/A

10. Analysis perfomed on water added? ☐ Yes ☐ No
(If yes, attach results) N/A

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.10 ft.	13.25 ft.
Date	b. 05/01/2016 (m m d d y y y y)	05/01/2016
Time	c. 9:00 ■ a.m. ☐ p.m.	9:45 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ☐ 20 Turbid ■ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l N/A	____.__ mg/l
15. COD	N/A ____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Raghu Last Name: Singh
Firm: Om Enterprises Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Jaber
Facility/Firm: Villard Food Fair, LLC
Street: 3217 W. Villard Ave
City/State/Zip: Milwaukee, WI 53209

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Raghu B Singh
Print Name: RAGHU B. SINGH
Firm: Om Enterprises, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Shop Rite Grocery 3217 W Villard Ave	Milwaukee	MW-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
FID# 241 692 110	41	_____	___

1. Can this well be purged dry? ■ Yes ☐ No

2. Well development method

surged with bailer and bailed	■ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 15.31 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ~16.8 gal.

7. Volume of water removed from well ~18.5 gal.

8. Volume of water added (if any) N/A ____.__ gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results) N/A

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.90 ft.	14.20 ft.
Date	b. 05/01/2016 (m m d d y y y y)	05/01/2016 (m m d d y y y y)
Time	c. 10:00 ■ a.m. ☐ p.m.	10:30 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ☐ 20 Turbid ■ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l N/A	____.__ mg/l
15. COD	N/A ____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Raghu Last Name: Singh
Firm: Om Enterprises Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Jaber
Facility/Firm: Villard Food Mart, LLC
Street: 3217 W Villard Ave
City/State/Zip: Milwaukee, WI 53209

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Raghu B Singh
Print Name: RAGHU B. SINGH
Firm: Om Enterprises, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Shop Rite Grocery 3217 W Villard Ave	Milwaukee	MW-7

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
FID# 241692110	41	_____	____

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 65 min.

4. Depth of well (from top of well casisng) 14.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ~16.3 gal.

7. Volume of water removed from well ~15.8 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results) N/A

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	1.98 ft.	12.58 ft.
Date b. (m m d d y y y y)	05/01/2016	05/01/2016
Time c.	10:40 ☒ a.m. ☐ p.m.	11:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.6 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	N/A mg/l	mg/l
15. COD	N/A mg/l	mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Raghu Last Name: Singh
Firm: Om Enterprises, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Jaber
Facility/Firm: Villard Food Fun, LLC
Street: 3217 W Villard Ave
City/State/Zip: Milwaukee, WI 53209

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Raghu B. Singh
Print Name: RAGHU B. SINGH
Firm: Om Enterprises, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ ________

Facility/Project Name	County Name	Well Name	
Shop Rite Grocery 3217 W Villard Av	Milwaukee	P2-1	
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
FID# 241692110	41		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method
   - surged with bailer and bailed ☒ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped ☐ 62
   - surged with block, bailed and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - Other ________ ☐

3. Time spent developing well 75 min.

4. Depth of well (from top of well casisng) 24.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ~21.4 gal.

7. Volume of water removed from well ~205 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results) N/A

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.72 ft.	21.58 ft.
Date (mm dd yyyy)	b. 05/01/2016	05/01/2016
Time	c. 12:15 ☐ a.m. ☒ p.m.	1:30 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids ____ mg/l ____ mg/l N/A

15. COD N/A ____ mg/l ____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Raghu Last Name: Singh
Firm: Om Enterprises, Inc

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is true and correct to the best of my knowledge.
First Name: Frank Last Name: Jaber	
Facility/Firm: Villard Food Town, LLC	Signature: [signature]
Street: 3217 W Villard Ave	Print Name: RAGHU B. SINGH
City/State/Zip: Milwaukee, WI 53209	Firm: Om Enterprises, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Shop Rite Grocery 3217 W Villard Ave	Milwaukee	PZ-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
FID# 241 692 110	41	_____	_____

1. Can this well be purged dry? ■ Yes ☐ No

2. Well development method

surged with bailer and bailed	■	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 90 min.

4. Depth of well (from top of well casisng) 24.35 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ≈ 23.2 gal.

7. Volume of water removed from well ≈ 21.5 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results) N/A

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.25 ft.	____.__ ft.
Date	b. 05/01/2016 (mm/dd/yyyy)	05/01/2016 (mm/dd/yyyy)
Time	c. 2:15 ☐ a.m. ■ p.m.	3:45 ☐ a.m. ■ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ☐ 20 Turbid ■ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids N/A mg/l ____.__ mg/l

15. COD N/A mg/l ____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Raghu Last Name: Singh
Firm: Om Enterprises, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Jabar
Facility/Firm: Villard Foods, LLC
Street: 3217 W Villard Ave
City/State/Zip: Milwaukee, WI 53209

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Raghu B. Singh
Print Name: RAGHU B. SINGH
Firm: Om Enterprises, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

Appendix B

Laboratory Test Results of B-5, B-6, B-7, B-8, and B-9

CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 270

Page 1 of 1

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
Account No. : **Quote No.:**
Project #: 3023
Sampler: (signature) Ragbir B. Singh
Project (Name / Location): 3217 W Villard Ave, Milwaukee, WI 53209

Reports To: Ragbir B Singh	Invoice To: Frank Jaber
Company Om Enterprises Inc.	Company Villard Foodtown, LLC
Address 124 W Scott Street	Address 3217 W Villard Avenue
City State Zip Fond du Lac, WI 54935	City State Zip Milwaukee, WI 53209
Phone (262) 853-0712	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
5030827 A	B-5, 5-1	4/7/16	9:00		X		2	Soil	Mech													X		
B	B-5, 5-2	"	9:30		X		2	Soil	Mech													X		
C	B-6, 5-1	"	10:45		X		2	Soil	Mech													X		
D	B-6, 5-2	"	11:15		X		2	Soil	Mech													X		
E	B-7, 5-1	"	1:00		X		2	Soil	Mech													X		
F	B-7, 5-2	"	1:45		X		2	Soil	Mech													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", (Soil "S"), Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Client
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Ragbir B. Singh	1:43	4/9/16			

Received in Laboratory By: [signature] Time: 8:00 Date: 4/11/16

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

RAGHU B SINGH, PH D
OM ENTERPRISES, INC.
124 W. SCOTT STREET
FOND DU LAC, WI 54935

Report Date *19-May-16*

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827A
Sample ID B-5, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.2	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827A
Sample ID B-5, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
Tetrachloroethene	0.32	mg/kg	0.054	0.17	1	8260B		4/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/13/2016	CJR	1
SUR - Toluene-d8	105	Rec %			1	8260B		4/13/2016	CJR	1
SUR - Dibromofluoromethane	116	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827B
Sample ID B-5, S-2
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.8	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
Tetrachloroethene	0.40	mg/kg	0.054	0.17	1	8260B		4/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827B
Sample ID B-5, S-2
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	113	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			1	8260B		4/13/2016	CJR	1
SUR - Dibromofluoromethane	114	Rec %			1	8260B		4/13/2016	CJR	1
SUR - Toluene-d8	108	Rec %			1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827C
Sample ID B-6, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.7	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
Tetrachloroethene	0.153 "J"	mg/kg	0.054	0.17	1	8260B		4/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827C
Sample ID B-6, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	108	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	114	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	116	Rec %			1	8260B		4/13/2016	CJR	1
SUR - Toluene-d8	106	Rec %			1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827D
Sample ID B-6, S-2
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.3	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/13/2016	CJR	1
Tetrachloroethene	0.18	mg/kg	0.054	0.17	1	8260B		4/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827D
Sample ID B-6, S-2
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	104	Rec %			1	8260B		4/13/2016	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	112	Rec %			1	8260B		4/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		4/13/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827E
Sample ID B-7, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.0	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/18/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/18/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/18/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/18/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/18/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/18/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/18/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/18/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/18/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/18/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/18/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/18/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/18/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/18/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/18/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/18/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/18/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/18/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/18/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/18/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/18/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/18/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/18/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/18/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/18/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
Tetrachloroethene	0.278	mg/kg	0.054	0.17	1	8260B		4/18/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/18/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/18/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/18/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/18/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/18/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/18/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/18/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/18/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/18/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/18/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/18/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827E
Sample ID B-7, S-1
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	110	Rec %			1	8260B		4/18/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B		4/18/2016	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		4/18/2016	CJR	1
SUR - Toluene-d8	106	Rec %			1	8260B		4/18/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827F
Sample ID B-7, S-2
Sample Matrix Soil
Sample Date 4/7/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	73.0	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/18/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/18/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/18/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/18/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/18/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/18/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/18/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/18/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/18/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/18/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/18/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/18/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/18/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/18/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/18/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/18/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/18/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/18/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/18/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/18/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/18/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/18/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/18/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/18/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/18/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
Tetrachloroethene	0.34	mg/kg	0.054	0.17	1	8260B		4/18/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/18/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/18/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/18/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/18/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/18/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/18/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/18/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/18/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/18/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/18/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/18/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30827
Project # 3023

Lab Code 5030827F
Sample ID B-7, S-2
Sample Matrix Soil
Sample Date 4/7/2016

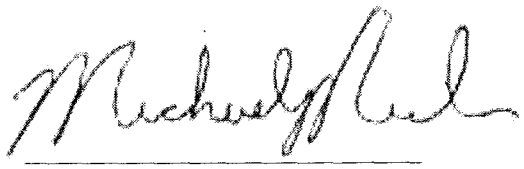
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	104	Rec %			1	8260B		4/18/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	125	Rec %			1	8260B		4/18/2016	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B		4/18/2016	CJR	1
SUR - Dibromofluoromethane	111	Rec %			1	8260B		4/18/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # Nº 270

Page 1 of 1

Sample Handling Request

___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)

X Normal Turn Around

Lab I.D. #	
Account No. :	**Quote No.:**
Project #: 3023	
Sampler: (signature) Raghu B, Singh	
Project (Name / Location): 3217 W Villard Ave, Milwaukee, WI 53209	
Reports To: Raghu B, Singh	Invoice To: Frank Jaba
Company Om Enterprise Inc.	Company Villard Fordtown, LLC
Address 124 W Scott Street	Address 3217 W Villard Ave
City State Zip Fond du Lac, WI 54935	City State Zip Milwaukee, WI 53209
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
5030888A	B-8, S-1	4/8/16	10.15		X		2	Soil	Iced													X		
B	B-8, S-2	"	10.45		X		2	Soil	Iced													X		
C	B-9, S-1	"	1.30		✓		2	Soil	Iced													X		
D	B-9, S-2	"	1.45		X		2	Soil	Iced													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S" Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab

Method of Shipment: Client

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Raghu B Singh	1.43PM	4/9/16			

Received in Laboratory By: [signature] Time 8:00 Date: 4/11/16

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

RAGHU B SINGH. PH D
OM ENTERPRISES. INC.
124 W. SCOTT STREET
FOND DU LAC. WI 54935

Report Date *25-Apr-16*

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828A
Sample ID B-8, S-1
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.9	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.08	mg/kg	0.08	0.245	5	8260B		4/21/2016	CJR	1
Bromobenzene	< 0.195	mg/kg	0.195	0.6	5	8260B		4/21/2016	CJR	1
Bromodichloromethane	< 0.075	mg/kg	0.075	0.24	5	8260B		4/21/2016	CJR	1
Bromoform	< 0.115	mg/kg	0.115	0.365	5	8260B		4/21/2016	CJR	1
tert-Butylbenzene	< 0.175	mg/kg	0.175	0.55	5	8260B		4/21/2016	CJR	1
sec-Butylbenzene	< 0.18	mg/kg	0.18	0.55	5	8260B		4/21/2016	CJR	1
n-Butylbenzene	< 0.43	mg/kg	0.43	1.35	5	8260B		4/21/2016	CJR	1
Carbon Tetrachloride	< 0.105	mg/kg	0.105	0.335	5	8260B		4/21/2016	CJR	1
Chlorobenzene	< 0.195	mg/kg	0.195	0.6	5	8260B		4/21/2016	CJR	1
Chloroethane	< 0.225	mg/kg	0.225	0.7	5	8260B		4/21/2016	CJR	1
Chloroform	< 0.13	mg/kg	0.13	0.405	5	8260B		4/21/2016	CJR	1
Chloromethane	< 1.25	mg/kg	1.25	3.9	5	8260B		4/21/2016	CJR	1
2-Chlorotoluene	< 0.145	mg/kg	0.145	0.465	5	8260B		4/21/2016	CJR	1
4-Chlorotoluene	< 0.16	mg/kg	0.16	0.5	5	8260B		4/21/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.39	mg/kg	0.39	1.25	5	8260B		4/21/2016	CJR	1
Dibromochloromethane	< 0.155	mg/kg	0.155	0.49	5	8260B		4/21/2016	CJR	1
1,4-Dichlorobenzene	< 0.15	mg/kg	0.15	0.48	5	8260B		4/21/2016	CJR	1
1,3-Dichlorobenzene	< 0.15	mg/kg	0.15	0.485	5	8260B		4/21/2016	CJR	1
1,2-Dichlorobenzene	< 0.195	mg/kg	0.195	0.6	5	8260B		4/21/2016	CJR	1
Dichlorodifluoromethane	< 0.215	mg/kg	0.215	0.7	5	8260B		4/21/2016	CJR	1
1,2-Dichloroethane	< 0.15	mg/kg	0.15	0.48	5	8260B		4/21/2016	CJR	1
1,1-Dichloroethane	< 0.125	mg/kg	0.125	0.395	5	8260B		4/21/2016	CJR	1
1,1-Dichloroethene	< 0.145	mg/kg	0.145	0.465	5	8260B		4/21/2016	CJR	1
cis-1,2-Dichloroethene	0.33 "J"	mg/kg	0.105	0.34	5	8260B		4/21/2016	CJR	1
trans-1,2-Dichloroethene	< 0.12	mg/kg	0.12	0.38	5	8260B		4/21/2016	CJR	1
1,2-Dichloropropane	< 0.125	mg/kg	0.125	0.39	5	8260B		4/21/2016	CJR	1
2,2-Dichloropropane	< 0.5	mg/kg	0.5	1.65	5	8260B		4/21/2016	CJR	1
1,3-Dichloropropane	< 0.155	mg/kg	0.155	0.485	5	8260B		4/21/2016	CJR	1
Di-isopropyl ether	< 0.06	mg/kg	0.06	0.2	5	8260B		4/21/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828A
Sample ID B-8, S-1
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.175	mg/kg	0.175	0.55	5	8260B		4/21/2016	CJR	1
Ethylbenzene	< 0.135	mg/kg	0.135	0.43	5	8260B		4/21/2016	CJR	1
Hexachlorobutadiene	< 0.55	mg/kg	0.55	1.8	5	8260B		4/21/2016	CJR	1
Isopropylbenzene	< 0.185	mg/kg	0.185	0.6	5	8260B		4/21/2016	CJR	1
p-Isopropyltoluene	< 0.28	mg/kg	0.28	0.9	5	8260B		4/21/2016	CJR	1
Methylene chloride	< 1.1	mg/kg	1.1	3.5	5	8260B		4/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.125	0.39	5	8260B		4/21/2016	CJR	1
Naphthalene	< 0.435	mg/kg	0.435	1.4	5	8260B		4/21/2016	CJR	1
n-Propylbenzene	< 0.175	mg/kg	0.175	0.55	5	8260B		4/21/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.065	mg/kg	0.065	0.2	5	8260B		4/21/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.145	mg/kg	0.145	0.465	5	8260B		4/21/2016	CJR	1
Tetrachloroethene	11.1	mg/kg	0.27	0.85	5	8260B		4/21/2016	CJR	1
Toluene	< 0.155	mg/kg	0.155	0.495	5	8260B		4/21/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.425	mg/kg	0.425	1.35	5	8260B		4/21/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.6	mg/kg	0.6	1.9	5	8260B		4/21/2016	CJR	1
1,1,1-Trichloroethane	< 0.2	mg/kg	0.2	0.65	5	8260B		4/21/2016	CJR	1
1,1,2-Trichloroethane	< 0.165	mg/kg	0.165	0.55	5	8260B		4/21/2016	CJR	1
Trichloroethene (TCE)	0.95	mg/kg	0.21	0.65	5	8260B		4/21/2016	CJR	1
Trichlorofluoromethane	< 0.3	mg/kg	0.3	0.95	5	8260B		4/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.39	mg/kg	0.39	1.25	5	8260B		4/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.445	mg/kg	0.445	1.4	5	8260B		4/21/2016	CJR	1
Vinyl Chloride	< 0.05	mg/kg	0.05	0.155	5	8260B		4/21/2016	CJR	1
m&p-Xylene	< 0.35	mg/kg	0.35	1.1	5	8260B		4/21/2016	CJR	1
o-Xylene	< 0.145	mg/kg	0.145	0.46	5	8260B		4/21/2016	CJR	1
SUR - Toluene-d8	101	Rec %			5	8260B		4/21/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			5	8260B		4/21/2016	CJR	1
SUR - 4-Bromofluorobenzene	107	Rec %			5	8260B		4/21/2016	CJR	1
SUR - Dibromofluoromethane	119	Rec %			5	8260B		4/21/2016	CJR	1

Project Name 3217 VILLARD AVE.,
Project # 3023

Invoice # E30828

Lab Code 5030828B
Sample ID B-8, S-2
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.7	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.32	mg/kg	0.32	0.98	20	8260B		4/21/2016	CJR	1
Bromobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Bromodichloromethane	< 0.3	mg/kg	0.3	0.96	20	8260B		4/21/2016	CJR	1
Bromoform	< 0.46	mg/kg	0.46	1.46	20	8260B		4/21/2016	CJR	1
tert-Butylbenzene	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
sec-Butylbenzene	< 0.72	mg/kg	0.72	2.2	20	8260B		4/21/2016	CJR	1
n-Butylbenzene	< 1.72	mg/kg	1.72	5.4	20	8260B		4/21/2016	CJR	1
Carbon Tetrachloride	< 0.42	mg/kg	0.42	1.34	20	8260B		4/21/2016	CJR	1
Chlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Chloroethane	< 0.9	mg/kg	0.9	2.8	20	8260B		4/21/2016	CJR	1
Chloroform	< 0.52	mg/kg	0.52	1.62	20	8260B		4/21/2016	CJR	1
Chloromethane	< 5	mg/kg	5	15.6	20	8260B		4/21/2016	CJR	1
2-Chlorotoluene	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
4-Chlorotoluene	< 0.64	mg/kg	0.64	2	20	8260B		4/21/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.56	mg/kg	1.56	5	20	8260B		4/21/2016	CJR	1
Dibromochloromethane	< 0.62	mg/kg	0.62	1.96	20	8260B		4/21/2016	CJR	1
1,4-Dichlorobenzene	< 0.6	mg/kg	0.6	1.92	20	8260B		4/21/2016	CJR	1
1,3-Dichlorobenzene	< 0.6	mg/kg	0.6	1.94	20	8260B		4/21/2016	CJR	1
1,2-Dichlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Dichlorodifluoromethane	< 0.86	mg/kg	0.86	2.8	20	8260B		4/21/2016	CJR	1
1,2-Dichloroethane	< 0.6	mg/kg	0.6	1.92	20	8260B		4/21/2016	CJR	1
1,1-Dichloroethane	< 0.5	mg/kg	0.5	1.58	20	8260B		4/21/2016	CJR	1
1,1-Dichloroethene	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
cis-1,2-Dichloroethene	14.1	mg/kg	0.42	1.36	20	8260B		4/21/2016	CJR	1
trans-1,2-Dichloroethene	< 0.48	mg/kg	0.48	1.52	20	8260B		4/21/2016	CJR	1
1,2-Dichloropropane	< 0.5	mg/kg	0.5	1.56	20	8260B		4/21/2016	CJR	1
2,2-Dichloropropane	< 2	mg/kg	2	6.6	20	8260B		4/21/2016	CJR	1
1,3-Dichloropropane	< 0.62	mg/kg	0.62	1.94	20	8260B		4/21/2016	CJR	1
Di-isopropyl ether	< 0.24	mg/kg	0.24	0.8	20	8260B		4/21/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
Ethylbenzene	< 0.54	mg/kg	0.54	1.72	20	8260B		4/21/2016	CJR	1
Hexachlorobutadiene	< 2.2	mg/kg	2.2	7.2	20	8260B		4/21/2016	CJR	1
Isopropylbenzene	< 0.74	mg/kg	0.74	2.4	20	8260B		4/21/2016	CJR	1
p-Isopropyltoluene	< 1.12	mg/kg	1.12	3.6	20	8260B		4/21/2016	CJR	1
Methylene chloride	< 4.4	mg/kg	4.4	14	20	8260B		4/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.5	mg/kg	0.5	1.56	20	8260B		4/21/2016	CJR	1
Naphthalene	< 1.74	mg/kg	1.74	5.6	20	8260B		4/21/2016	CJR	1
n-Propylbenzene	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.26	mg/kg	0.26	0.8	20	8260B		4/21/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
Tetrachloroethene	88	mg/kg	1.08	3.4	20	8260B		4/21/2016	CJR	1
Toluene	< 0.62	mg/kg	0.62	1.98	20	8260B		4/21/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	mg/kg	1.7	5.4	20	8260B		4/21/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.4	mg/kg	2.4	7.6	20	8260B		4/21/2016	CJR	1
1,1,1-Trichloroethane	< 0.8	mg/kg	0.8	2.6	20	8260B		4/21/2016	CJR	1
1,1,2-Trichloroethane	< 0.66	mg/kg	0.66	2.2	20	8260B		4/21/2016	CJR	1
Trichloroethene (TCE)	12	mg/kg	0.84	2.6	20	8260B		4/21/2016	CJR	1
Trichlorofluoromethane	< 1.2	mg/kg	1.2	3.8	20	8260B		4/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.56	mg/kg	1.56	5	20	8260B		4/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.78	mg/kg	1.78	5.6	20	8260B		4/21/2016	CJR	1
Vinyl Chloride	< 0.2	mg/kg	0.2	0.62	20	8260B		4/21/2016	CJR	1
m&p-Xylene	< 1.4	mg/kg	1.4	4.4	20	8260B		4/21/2016	CJR	1
o-Xylene	< 0.58	mg/kg	0.58	1.84	20	8260B		4/21/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828B
Sample ID B-8, S-2
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	99	Rec %			20	8260B		4/21/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	105	Rec %			20	8260B		4/21/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			20	8260B		4/21/2016	CJR	1
SUR - Toluene-d8	107	Rec %			20	8260B		4/21/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828C
Sample ID B-9, S-1
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.7	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/18/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/18/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/18/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/18/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/18/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/18/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/18/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/18/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/18/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/18/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/18/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/18/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/18/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/18/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/18/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
cis-1,2-Dichloroethene	0.0265 "J"	mg/kg	0.021	0.068	1	8260B		4/18/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/18/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/18/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/18/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/18/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/18/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/18/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/18/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/18/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/18/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/18/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/18/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/18/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/18/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/18/2016	CJR	1
Tetrachloroethene	9.3	mg/kg	0.054	0.17	1	8260B		4/18/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/18/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/18/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/18/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/18/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/18/2016	CJR	1
Trichloroethene (TCE)	0.206	mg/kg	0.042	0.13	1	8260B		4/18/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/18/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/18/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/18/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/18/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/18/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/18/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828C
Sample ID B-9, S-1
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	105	Rec %			1	8260B		4/18/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	107	Rec %			1	8260B		4/18/2016	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			1	8260B		4/18/2016	CJR	1
SUR - Dibromofluoromethane	112	Rec %			1	8260B		4/18/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828D
Sample ID B-9, S-2
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		4/12/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.32	mg/kg	0.32	0.98	20	8260B		4/21/2016	CJR	1
Bromobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Bromodichloromethane	< 0.3	mg/kg	0.3	0.96	20	8260B		4/21/2016	CJR	1
Bromoform	< 0.46	mg/kg	0.46	1.46	20	8260B		4/21/2016	CJR	1
tert-Butylbenzene	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
sec-Butylbenzene	< 0.72	mg/kg	0.72	2.2	20	8260B		4/21/2016	CJR	1
n-Butylbenzene	< 1.72	mg/kg	1.72	5.4	20	8260B		4/21/2016	CJR	1
Carbon Tetrachloride	< 0.42	mg/kg	0.42	1.34	20	8260B		4/21/2016	CJR	1
Chlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Chloroethane	< 0.9	mg/kg	0.9	2.8	20	8260B		4/21/2016	CJR	1
Chloroform	< 0.52	mg/kg	0.52	1.62	20	8260B		4/21/2016	CJR	1
Chloromethane	< 5	mg/kg	5	15.6	20	8260B		4/21/2016	CJR	1
2-Chlorotoluene	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
4-Chlorotoluene	< 0.64	mg/kg	0.64	2	20	8260B		4/21/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.56	mg/kg	1.56	5	20	8260B		4/21/2016	CJR	1
Dibromochloromethane	< 0.62	mg/kg	0.62	1.96	20	8260B		4/21/2016	CJR	1
1,4-Dichlorobenzene	< 0.6	mg/kg	0.6	1.92	20	8260B		4/21/2016	CJR	1
1,3-Dichlorobenzene	< 0.6	mg/kg	0.6	1.94	20	8260B		4/21/2016	CJR	1
1,2-Dichlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		4/21/2016	CJR	1
Dichlorodifluoromethane	< 0.86	mg/kg	0.86	2.8	20	8260B		4/21/2016	CJR	1
1,2-Dichloroethane	< 0.6	mg/kg	0.6	1.92	20	8260B		4/21/2016	CJR	1
1,1-Dichloroethane	< 0.5	mg/kg	0.5	1.58	20	8260B		4/21/2016	CJR	1
1,1-Dichloroethene	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
cis-1,2-Dichloroethene	2.47	mg/kg	0.42	1.36	20	8260B		4/21/2016	CJR	1
trans-1,2-Dichloroethene	< 0.48	mg/kg	0.48	1.52	20	8260B		4/21/2016	CJR	1
1,2-Dichloropropane	< 0.5	mg/kg	0.5	1.56	20	8260B		4/21/2016	CJR	1
2,2-Dichloropropane	< 2	mg/kg	2	6.6	20	8260B		4/21/2016	CJR	1
1,3-Dichloropropane	< 0.62	mg/kg	0.62	1.94	20	8260B		4/21/2016	CJR	1
Di-isopropyl ether	< 0.24	mg/kg	0.24	0.8	20	8260B		4/21/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
Ethylbenzene	< 0.54	mg/kg	0.54	1.72	20	8260B		4/21/2016	CJR	1
Hexachlorobutadiene	< 2.2	mg/kg	2.2	7.2	20	8260B		4/21/2016	CJR	1
Isopropylbenzene	< 0.74	mg/kg	0.74	2.4	20	8260B		4/21/2016	CJR	1
p-Isopropyltoluene	< 1.12	mg/kg	1.12	3.6	20	8260B		4/21/2016	CJR	1
Methylene chloride	< 4.4	mg/kg	4.4	14	20	8260B		4/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.5	mg/kg	0.5	1.56	20	8260B		4/21/2016	CJR	1
Naphthalene	< 1.74	mg/kg	1.74	5.6	20	8260B		4/21/2016	CJR	1
n-Propylbenzene	< 0.7	mg/kg	0.7	2.2	20	8260B		4/21/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.26	mg/kg	0.26	0.8	20	8260B		4/21/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.58	mg/kg	0.58	1.86	20	8260B		4/21/2016	CJR	1
Tetrachloroethene	111	mg/kg	1.08	3.4	20	8260B		4/21/2016	CJR	1
Toluene	< 0.62	mg/kg	0.62	1.98	20	8260B		4/21/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	mg/kg	1.7	5.4	20	8260B		4/21/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.4	mg/kg	2.4	7.6	20	8260B		4/21/2016	CJR	1
1,1,1-Trichloroethane	< 0.8	mg/kg	0.8	2.6	20	8260B		4/21/2016	CJR	1
1,1,2-Trichloroethane	< 0.66	mg/kg	0.66	2.2	20	8260B		4/21/2016	CJR	1
Trichloroethene (TCE)	5.2	mg/kg	0.84	2.6	20	8260B		4/21/2016	CJR	1
Trichlorofluoromethane	< 1.2	mg/kg	1.2	3.8	20	8260B		4/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.56	mg/kg	1.56	5	20	8260B		4/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.78	mg/kg	1.78	5.6	20	8260B		4/21/2016	CJR	1
Vinyl Chloride	< 0.2	mg/kg	0.2	0.62	20	8260B		4/21/2016	CJR	1
m&p-Xylene	< 1.4	mg/kg	1.4	4.4	20	8260B		4/21/2016	CJR	1
o-Xylene	< 0.58	mg/kg	0.58	1.84	20	8260B		4/21/2016	CJR	1

Project Name 3217 VILLARD AVE., **Invoice #** E30828
Project # 3023

Lab Code 5030828D
Sample ID B-9, S-2
Sample Matrix Soil
Sample Date 4/8/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	104	Rec %			20	8260B		4/21/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	96	Rec %			20	8260B		4/21/2016	CJR	1
SUR - 4-Bromofluorobenzene	109	Rec %			20	8260B		4/21/2016	CJR	1
SUR - Dibromofluoromethane	110	Rec %			20	8260B		4/21/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Appendix C
RCLs Calculations

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*.

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.005		0.	3.4E-09
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.005		0.	6.7E-10
Toluene	108-88-3	5,300.	-	818.	Csat		0.005		0	
Xylenes	1330-20-7	890.	-	258.	Csat		0.015		0	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		3.	E	0.4959	2.4E-06
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		37.	E	0.3217	1.2E-06
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.031		0.0003	4.6E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		2.8		0.0179	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-	-						
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				

B-1, S-2

3.5-5'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Allyl	74223-64-6	15,300.	-	15,300.	nc					

B-1

S-2

3.5-5'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Triphenylphosphine Oxide	791-28-6	1,220.	-	1,220.	nc					
Tripotassium phosphate	7778-53-2	3,800,000.	-	100,000.	ceiling					
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	1,220.	-	1,220.	nc					
Tris(1-chloro-2-propyl)phosphate	13674-84-5	611.	-	611.	nc					
Tris(2-chloroethyl)phosphate	115-96-8	428.	24.3	24.3	ca					
Tris(2-ethylhexyl)phosphate	78-42-2	6,110.	152.	152.	ca					
Trisodium phosphate	7601-54-9	3,800,000.	-	100,000.	ceiling					
Uranium (Soluble Salts)	NA	234.	-	234.	nc					
Urethane	51-79-6	-	0.115	0.115	ca					
Vanadium Pentoxide	1314-62-1	663.	458.	458.	ca					
Vernolate	1929-77-7	61.1	-	61.1	nc					
Vinclozolin	50471-44-8	1,530.	-	1,530.	nc					
Vinyl Acetate	108-05-4	1,400.	-	1,400.	nc					
Vinyl Bromide	593-60-2	6.66	0.162	0.162	ca					
Warfarin	81-81-2	18.3	-	18.3	nc					
Xylene, m-	108-38-3	839.	-	388.	Csat					
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 2 | 0.836 | 4.1E-06

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-1, S-2, 3.5-5'

8. 01/22/2015

Bottom-Line:

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.005	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	2.8	E
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

02-41-119925

B-1
S-2
3.5-5'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-1

S-2

3.5-5'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00		INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.005	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	37.	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.005	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	3.	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)(Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-1

S-2

3.5 to 5'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csi_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.031	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.015	

02-41-119925

B-1

5-2

3.5-5'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

##########

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*.

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.005		0.	3.4E-09
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.005		0.	6.7E-10
Toluene	108-88-3	5,300.	-	818.	Csat		0.005		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.015		0.	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.008		0.0013	6.1E-09
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.033		0.0003	1.1E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.005		0.0001	7.5E-08
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.008		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-3
S-1
1-3'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-3

3-1

1-3'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0017 | 8.6E-08

B-3, S-1, 1-3'

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.005	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.008	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-3
S-1
1-3'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-3
S-1
1-3'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.005	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	0.033	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.005	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.008	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)(Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-3

S-1

1-3'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	**RCL-gw (mg/kg) DF=1**	Use 2, or input the calculated site-specific DF -> 2.00	**INPUT NUMERIC SOIL Site Data Max (mg/kg)**	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.005	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.015	

02-41-119925

B-3

S1

1-3'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202 .*

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892 .***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 — Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.005		0.	3.4E-09
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.005		0.	6.7E-10
Toluene	108-88-3	5,300.	-	818.	Csat		0.005		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.015		0.	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.005		0.0008	4.0E-09
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.033		0.0003	1.1E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.005		0.0001	7.5E-08
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.036		0.0002	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-3

S-3

6-8'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-3

S-3

6-8'

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0015 | 8.4E-08

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-3, S-3, 6-8'

8. 01/22/2015

Bottom-Line:

Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.005	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.036	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-3
S-3
6-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
DI (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

02-41-119925

B-3

S-3

G-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00		INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.005	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	0.005	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.005	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.005	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-3

S-3

6-S'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	**RCL-gw (mg/kg) DF=1**	Use 2, or input the calculated site-specific DF ->	2.00	**INPUT NUMERIC SOIL Site Data Max (mg/kg)**	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.005	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.015	

02-41-119925

B-3

5-3

6-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892 .***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.005		0.	3.4E-09
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.005		0.	6.7E-10
Toluene	108-88-3	5,300.	-	818.	Csat		0.005		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.015		0.	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.49		0.081	3.9E-07
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		23.		0.2	7.5E-07
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.005		0.0001	7.5E-08
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.07		0.0004	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-4

S-3

6-21

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-4

S-3

6-8

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.2816 | 1.2E-06

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-4, S-3, 6-8'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.005	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.07	E
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

02-41-119925

B-4
5-3
6-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

02-41-119925

B-4

S-3

C-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csi_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.005	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	23.	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.005	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.49	E
2,4,5-Trichlorophenoxyacetic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

02-41-119925

B-4
S-3
6 -8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Otherwise DAF=? (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.005	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.015	

02-41-119925

B-4

S-3

6-8'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.32		0.0028	1.0E-08
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-5

S-1

0-2'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-5

S-1

0-21

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0102 | 2.1E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-5, S-1, 0-2'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-5
S-1
0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-5

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	0.32	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

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B-5

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Calculate DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.099	

02-41-119925

B-5

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Subscript DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

##########

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892 .***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.4		0.0035	1.3E-08
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-5 S-2 2-4'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-5

S-2

2-4'

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0109 | 2.1E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-5 5-2 2-4'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF --> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-5
5-2
2.41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-5

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	0.4	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)(Silvex)	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

02-41-119925

B-5
S-2
2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.099	

02-41-119925

B-5

5-2

2.41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892*** .

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.153		0.0013	5.0E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

B-6, S-1
0-2'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
[illegible]phosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-6

8-1

0-21

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0088 | 2.0E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-6, S-1, 0-2'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

02-41-119925

B-6

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

...ficiently defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-6

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	0.153	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP(Silvex))	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

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B-6

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.099	

02-41-119925

B-6

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.18		0.0016	5.9E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
	18540-29-9	234.	0.293	0.293	ca					

B-6, S-2

2-4'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-1

S-2

2-41

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.009 | 2.0E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-6, S-2, 2-4'

8. 01/22/2015

Bottom-Line: Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-41-119925
Acetochlor	34256-82-1	-	7.	5.57E-03		1.11E-02			
Acetone	67-64-1	-	9,000.	1.84E+00		3.68E+00			
Alachlor	15972-60-8	2.	2.	1.65E-03		3.30E-03			
Aldicarb	116-06-3	3.	10.	2.49E-03		4.99E-03			
Aluminum	7429-90-5	-	200.	3.00E+02		6.00E+02			
Antimony	7440-36-0	6.	6.	2.71E-01		5.42E-01			
Anthracene	120-12-7	-	3,000.	9.89E+01		1.98E+02			
Arsenic	7440-38-2	10.	10.	2.92E-01		5.84E-01			
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03		3.90E-03			
Barium	7440-39-3	2,000.	2,000.	8.24E+01		1.65E+02			
Bentazon	25057-89-0	-	300.	6.57E-02		1.31E-01			
Benzene	71-43-2	5.	5.	2.56E-03		5.12E-03	0.016	E	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01		4.70E-01			
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01		4.79E-01			
Beryllium	7440-41-7	4.	4.	3.16E+00		6.32E+00			
Boron	7440-42-8	-	1,000.	3.21E+00		6.42E+00			
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04		3.26E-04			
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03		2.33E-03			
Bromomethane	74-83-9	-	10.	2.53E-03		5.06E-03			
Butylate	2008-41-5	-	400.	3.89E-01		7.77E-01			
Cadmium	7440-43-9	5.	5.	3.76E-01		7.52E-01			
Carbaryl	63-25-2	-	40.	3.63E-02		7.26E-02			
Carbofuran	1563-66-2	40.	40.	1.56E-02		3.12E-02			
Carbon disulfide	75-15-0	-	1,000.	2.96E-01		5.92E-01			
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03		3.88E-03			
Chloramben	133-90-4	-	150.	3.64E-02		7.29E-02			
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00		5.79E+00			
Chloroethane	75-00-3	-	400.	1.13E-01		2.27E-01			
Chloroform (THM)	67-66-3	80.	6.	1.67E-03		3.33E-03			
Chlorpyrifos	2921-88-2	-	2.	2.94E-02		5.88E-02			
Chloromethane	74-87-3	-	30.	7.76E-03		1.55E-02			
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI		3.60E+05 If no Cr-VI			Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02		1.45E-01			
Cobalt	7440-48-4	-	40.	1.80E+00		3.61E+00			
Copper	7440-50-8	1,300.	1,300.	4.58E+01		9.16E+01			
Cyanazine	21725-46-2	-	1.	4.69E-04		9.37E-04			
Cyanide, free	57-12-5	200.	200.	2.02E+00		4.04E+00			
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02		1.70E-01			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02		3.20E-02			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05		1.73E-04			
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00		5.04E+00			
Dicamba	1918-00-9	-	300.	7.76E-02		1.55E-01			
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01		1.17E+00			
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01		1.15E+00			
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02		1.44E-01			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00		3.09E+00			
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01		4.83E-01			
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03		2.84E-03			
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03		5.02E-03			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02		4.12E-02	0.021		
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02		5.88E-02			
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02		3.62E-02			
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03		3.32E-03			
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04		2.86E-04			

B-6

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-6

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	0.18	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-6

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.099	

02-41-119925

B-1

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892 .***

(Contaminants not in the provided list can be added starting at Row 880.)

								Comparison / Hazard Index / Cumulative Cancer Risk		
Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.278		0.0024	9.1E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
	18540-29-9	234.	0.293	0.293	ca					

B-7
S-1
0-21

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
	13776-88-0	3,800,000.	-	100,000.	ceiling					

B-7

S-1

0-2'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

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Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 ▲ | 0.0099 ▲ | 2.1E-07 ▲

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-7 S1, 0-2'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

02-41-119925

B-7
S-1
0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

B-7

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	0.278	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP(Silvex))	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

02-41-119925

B-7

S-1

0-4

result for Asbestos: Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.099	

02-41-119925

B-7

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*.

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.34		0.003	1.1E-08
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

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S-2

2-4'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
	13776-88-0	3,800,000.	-	100,000.	ceiling					

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S-2

2-41

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0104 | 2.1E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-7, S-2, 2-4'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

02-41-119925

B-7
S-2
2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

DAF=? (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

02-41-119925

B-7

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	0.34	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP(Silvex))	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-7

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

[illegible] after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csi_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.099	

02-41-119925

B-7

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*.

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.08		0.0007	5.4E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.135		0.	1.8E-08
Toluene	108-88-3	5,300.	-	818.	Csat		0.155		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.499		0.0006	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.95		0.157	7.5E-07
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		11.1		0.0965	3.6E-07
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.05		0.0005	7.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.33		0.0021	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
	7440-70-2	-	-			14,536.				
			0.293	0.293	ca					

B-8
S-1
0-2'

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
[illegible]	[illegible]	2,800,000.	-	100,000.	ceiling					

B-8

S-1

0-21

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 ▲ | 0.2575 ▲ | 1.9E-06 ▲

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-8, S-1, 0-2'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.08	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.33	E
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-8

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Calculate DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

B-8
S-1
0-21

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00	2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04	9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05	1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04	1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05	3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02	1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01	2.64E-01		

02-41-119925

criteria; 1,3-DCP; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

in "F" notation

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.135	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	11.1	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.155	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.95	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

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B-8

5-1

0-21

criteria: 1,3-DCB: Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

"E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01	4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01	1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01	6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05	1.38E-04	0.05	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00	3.94E+00	0.499	

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B-8

S-1

0-21

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.32		0.0029	2.1E-07
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.54		0.0001	7.2E-08
Toluene	108-88-3	5,300.	-	818.	Csat		0.62		0.0001	
Xylenes	1330-20-7	890.	-	258.	Csat		1.98		0.0022	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		12.	E	1.9835	9.5E-06
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		88.	E	0.7652	2.9E-06
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.2	E	0.0021	3.0E-06
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		14.1		0.0904	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
[illegible]	18540-29-9	234.	0.293	0.293	ca					

B-8, S-2
2.41

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca		B-8, S-2			
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca		2-4'			
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
[illegible]de	107-05-1	2.57	0.966	0.966	ca					
[illegible]	[illegible]	>800,000	-	100,000.	ceiling					

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

02-41-119925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 3 | 2.8466 | 1.6E-05

	Exceedance Count = 0	HI ≤ 1.0	Cumulative CR ≤ 1e-05
To Pass, data must meet all these criteria:			

B-8, S-2, 2-4'

8. 01/22/2015

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-41-119925
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02			
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00			
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03			
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03			
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02			
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01			
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02			
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01			
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03			
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02			
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01			
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.08	E	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01			
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01			
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00			
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00			
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04			
Bromoform (THM)	75-25-2	80	4.4	1.17E-03	2.33E-03			
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03			
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01			
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01			
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02			
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02			
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01			
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03			
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02			
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00			
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01			
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03			
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02			
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02			
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI			Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01			
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00			
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01			
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04			
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00			
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05			
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04			
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00			
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01			
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00			
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00			
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00			
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01			
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03			
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.33	E	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02			
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02			
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03			
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04			

B-8, S-2
2-41

Notes: Bacteria: 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

e in "E" notation

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

02-41-119925

B-8, S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01	1.57E+00	0.135	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01	4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00	5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01	8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00	1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02	1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00	4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01	4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02	6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03	8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02	2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00	8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01	2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03	2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01	3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01	2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00	2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00	4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03	2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01	1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01	2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02	2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01	2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02	4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01	1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02	1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01	6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00	1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02	7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02	2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00	2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01	2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03	9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02	9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03	1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01	5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03	6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01	5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01	8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03	3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01	2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03	4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02	5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05	1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03	4.54E-03	11.1	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02	2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01	2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01	1.11E+00	0.155	
Toxaphene	8001-35-2	3.	3.	4.64E-01	9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01	4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02	1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03	3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03	3.58E-03	0.95	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP(Silvex))	93-72-1	50.	50.	2.75E-02	5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02	5.19E-02		

02-41-119925

B-8
S-2
2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

...ining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.05	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.499	

02-41-119925

B-8

8-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Use DAF1 RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.042		0.0069	3.3E-08
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.278		0.0024	9.1E-09
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.021		0.0001	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
Chromium(VI)	18540-29-9	234.	0.293	0.293	ca					

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0-21

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
	10276-88-0	3,800,000.	-	100,000.	ceiling					

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S-1

0-2'

Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-		434.	Csat					
Xylene, P-	106-42-3	855.	-		390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc					
Zineb	12122-67-7	3,060.	-		3,060.	nc					
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										

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Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.0099 | 2.1E-07

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

B-9 S-1, 0-2'

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.021	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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S-1

0-2

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Caution: DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

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B-1

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Volume RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	0.278	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.042	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)(Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-9
S-1
0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.099	

02-41-119925

B-9

S-1

0-2'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, See Summary in Row 892.***

(Contaminants not in the provided list can be added starting at Row 880.)

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.016		0.0001	1.1E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.027		0.	3.6E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.031		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.099		0.0001	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23,800.	59.4	59.4	ca					
Dichloroethane, 1,2-	107-06-2	46.7	0.608	0.608	ca					
Dibromoethane, 1,2-	106-93-4	107.	0.047	0.047	ca					
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.206		0.034	1.6E-07
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		9.3		0.0809	3.0E-07
Vinyl Chloride	75-01-4	93.3	0.067	0.067	ca		0.01		0.0001	1.5E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc		0.027		0.0002	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat					
Carbon Tetrachloride	56-23-5	137.	0.854	0.854	ca					
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc					
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat					
Naphthalene	91-20-3	188.	5.15	5.15	ca					
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca					
Acenaphthene	83-32-9	3,440.	-	3,440.	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,200.	-	17,200.	nc					
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca					
Benzo(j)fluoranthene	205-82-3	-	0.377	0.377	ca					
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca					
Chrysene	218-01-9	-	14.8	14.8	ca					
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca					
Dibenzo(a,e)pyrene	192-65-4	-	0.038	0.038	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.31E-04	4.31E-04	ca					
Fluoranthene	206-44-0	2,290.	-	2,290.	nc					
Fluorene	86-73-7	2,290.	-	2,290.	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca					
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca					
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc					
Nitropyrene, 4-	57835-92-4	-	0.377	0.377	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,720.	-	1,720.	nc					
Aluminum	7429-90-5	77,500.	-	77,500.	nc	28,721.				
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.				
Beryllium and compounds	7440-41-7	156.	1,580.	156.	nc					
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.				
Calcium	7440-70-2	-	-			14,536.				
	18540-29-9	234.	0.293	0.293	ca					

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S-2

2-41

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Chromium(III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling					
Chromium, Total	7440-47-3	-	-			44.				
Cobalt	7440-48-4	23.4	422.	23.4	nc	22.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.				
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat					
Iron	7439-89-6	54,800.	-	54,800.	nc	34,314.				
Lead and Compounds	7439-92-1	-	-	400.	nc	52.				
Magnesium	7439-95-4	-	-			8,290.				
Manganese (Non-diet)	7439-96-5	1,830.	-	1,830.	nc	2,937.				
Molybdenum	7439-98-7	391.	-	391.	nc					
Nickel Soluble Salts	7440-02-0	1,550.	14,600.	1,550.	nc	31.				
Selenium	7782-49-2	391.	-	391.	nc					
Strontium, Stable	7440-24-6	46,900.	-	46,900.	nc	55.				
Vanadium and Compounds	7440-62-2	393.	-	393.	nc	85.				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.393	0.034	0.034	ca					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.131	0.011	0.011	ca					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.31	0.114	0.114	ca					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.93E-04	3.41E-05	3.41E-05	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.31	0.114	0.114	ca					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.001	1.14E-04	1.14E-04	ca					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.31	0.114	0.114	ca					
Aroclor 1016	12674-11-2	3.93	6.33	3.93	nc					
Aroclor 1221	11104-28-2	-	0.159	0.159	ca					
Aroclor 1232	11141-16-5	-	0.159	0.159	ca					
Aroclor 1242	53469-21-9	-	0.221	0.221	ca					
Aroclor 1248	12672-29-6	-	0.221	0.221	ca					
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca					
Aroclor 1260	11096-82-5	-	0.221	0.221	ca					
Aroclor 5460	11126-42-4	36.7	-	36.7	nc					
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.221	0.221	ca					
Acephate	30560-19-1	244.	55.8	55.8	ca					
Acetaldehyde	75-07-0	127.	15.	15.	ca					
Acetochlor	34256-82-1	1,220.	-	1,220.	nc					
Acetone	67-64-1	63,800.	-	63,800.	nc					
Acetone Cyanohydrin	75-86-5	77.	-	77.	nc					
Acetonitrile	75-05-8	1,260.	-	1,260.	nc					
Acetophenone	98-86-2	7,820.	-	2,520.	Csat					
Acetylaminofluorene, 2-	53-96-3	-	0.128	0.128	ca					
Acrolein	107-02-8	0.223	-	0.223	nc					
Acrylamide	79-06-1	122.	0.23	0.23	ca					
Acrylic Acid	79-10-7	30,000.	-	30,000.	nc					
Acrylonitrile	107-13-1	24.7	0.314	0.314	ca					
Adiponitrile	111-69-3	9,760,000.	-	100,000.	ceiling					
Alachlor	15972-60-8	611.	8.67	8.67	ca					
ALAR	1596-84-5	9,170.	27.	27.	ca					
Aldicarb	116-06-3	61.1	-	61.1	nc					
Aldicarb Sulfone	1646-88-4	61.1	-	61.1	nc					
Aldrin	309-00-2	1.83	0.029	0.029	ca					
Ally	74223-64-6	15,300.	-	15,300.	nc					
Allyl Alcohol	107-18-6	305.	-	305.	nc					
Allyl Chloride	107-05-1	2.57	0.966	0.966	ca					
Aluminum metaphosphate	13776-88-0	3,800,000.	-	100,000.	ceiling					

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S-2

2-41

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylene, o-	95-47-6	981.	-	434.	Csat					
Xylene, P-	106-42-3	855.	-	390.	Csat					
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc					
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc					
Zineb	12122-67-7	3,060.	-	3,060.	nc					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									

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Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 ▲ | 0.1155 ▲ | 6.3E-07 ▲

B-9, S-2, 2-4'

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

Bottom-Line:

8. 01/22/2015 Yes, levels are below direct-contact concern.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -> 2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	5.57E-03	1.11E-02		
Acetone	67-64-1	-	9,000.	1.84E+00	3.68E+00		
Alachlor	15972-60-8	2.	2.	1.65E-03	3.30E-03		
Aldicarb	116-06-3	3.	10.	2.49E-03	4.99E-03		
Aluminum	7429-90-5	-	200.	3.00E+02	6.00E+02		
Antimony	7440-36-0	6.	6.	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3,000.	9.89E+01	1.98E+02		
Arsenic	7440-38-2	10.	10.	2.92E-01	5.84E-01		
Atrazine, total chlorinated residues	1912-24-9	3.	3.	1.95E-03	3.90E-03		
Barium	7440-39-3	2,000.	2,000.	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300.	6.57E-02	1.31E-01		
Benzene	71-43-2	5.	5.	2.56E-03	5.12E-03	0.016	E
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01	4.79E-01		
Beryllium	7440-41-7	4.	4.	3.16E+00	6.32E+00		
Boron	7440-42-8	-	1,000.	3.21E+00	6.42E+00		
Bromodichloromethane (THM)	75-27-4	80.	0.6	1.63E-04	3.26E-04		
Bromoform (THM)	75-25-2	80.	4.4	1.17E-03	2.33E-03		
Bromomethane	74-83-9	-	10.	2.53E-03	5.06E-03		
Butylate	2008-41-5	-	400.	3.89E-01	7.77E-01		
Cadmium	7440-43-9	5.	5.	3.76E-01	7.52E-01		
Carbaryl	63-25-2	-	40.	3.63E-02	7.26E-02		
Carbofuran	1563-66-2	40.	40.	1.56E-02	3.12E-02		
Carbon disulfide	75-15-0	-	1,000.	2.96E-01	5.92E-01		
Carbon tetrachloride	56-23-5	5.	5.	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150.	3.64E-02	7.29E-02		
Chlorodifluoromethane	75-45-6	-	7,000.	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400.	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80.	6.	1.67E-03	3.33E-03		
Chlorpyrifos	2921-88-2	-	2.	2.94E-02	5.88E-02		
Chloromethane	74-87-3	-	30.	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100.	100.	1.80E+05 No Cr-VI	3.60E+05 If no Cr-VI		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.23E-02	1.45E-01		
Cobalt	7440-48-4	-	40.	1.80E+00	3.61E+00		
Copper	7440-50-8	1,300.	1,300.	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1.	4.69E-04	9.37E-04		
Cyanide, free	57-12-5	200.	200.	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70.	8.52E-02	1.70E-01		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05	2.82E-05		
Dibromochloromethane (THM)	124-48-1	80.	60.	1.60E-02	3.20E-02		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05	1.73E-04		
Dibutyl phthalate	84-74-2	-	1,000.	2.52E+00	5.04E+00		
Dicamba	1918-00-9	-	300.	7.76E-02	1.55E-01		
1,2-Dichlorobenzene	95-50-1	600.	600.	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600.	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75.	75.	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.54E+00	3.09E+00		
1,1-Dichloroethane	75-34-3	-	850.	2.41E-01	4.83E-01		
1,2-Dichloroethane	107-06-2	5.	5.	1.42E-03	2.84E-03		
1,1-Dichloroethylene	75-35-4	7.	7.	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	2.06E-02	4.12E-02	0.027	
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	2.94E-02	5.88E-02		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5.	5.	1.66E-03	3.32E-03		
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04	2.86E-04		

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B-9

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44E+00		2.88E+00		
Dimethoate	60-51-5	-	2.	4.51E-04		9.01E-04		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.75E-05		1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.88E-05		1.38E-04		
Dinoseb	88-85-7	7.	7.	6.15E-02		1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	6.15E-04		1.23E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2.	2.	8.08E-02		1.62E-01		
EPTC	759-94-4	-	250.	1.32E-01		2.64E-01		

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B-9

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	7.85E-01		1.57E+00	0.027	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	2.24E-01		4.48E-01		
Ethylene glycol	107-21-1	-	14,000.	2.83E+00		5.66E+00		
Fluoranthene	206-44-0	-	400.	4.44E+01		8.89E+01		
Fluorene (PAH)	86-73-7	-	400.	7.40E+00		1.48E+01		
Fluoride	7782-41-4	4,000.	4,000.	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3,490.	2.24E+00		4.48E+00		
Formaldehyde	50-00-0	-	1,000.	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1.	1.	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600.	4.22E+00		8.44E+00		
Lead	7439-92-1	15.	15.	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300.	1.96E+01		3.92E+01		
Mercury	7439-97-6	2.	2.	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5,000.	1.01E+00		2.02E+00		
Methoxychlor	72-43-5	40.	40.	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5.	5.	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	8.33E-01		1.67E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	1.13E-01		2.27E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	1.18E-01		2.36E-01		
Metribuzin	21087-64-9	-	70.	2.14E-02		4.27E-02		
Molybdenum	7439-98-7	-	40.	8.10E-01		1.62E+00		
Monochlorobenzene	108-90-7	100.	100.	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100.	3.29E-01		6.58E-01		
Nickel	7440-02-0	-	100.	6.53E+00		1.31E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1.	1.	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2,000.	1.15E+00		2.29E+00		
Picloram	1918-02-1	500.	500.	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100.	4.74E-02		9.49E-02		
Propazine	139-40-2	-	10.	8.89E-03		1.78E-02		
Pyrene (PAH)	129-00-0	-	250.	2.71E+01		5.41E+01		
Pyridine	110-86-1	-	10.	3.43E-03		6.87E-03		
Selenium	7782-49-2	50.	50.	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50.	4.25E-01		8.50E-01		
Simazine	122-34-9	4.	4.	1.97E-03		3.94E-03		
Styrene	100-42-5	100.	100.	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	2.67E-02		5.34E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.82E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	2.27E-03		4.54E-03	9.3	E
Tetrahydrofuran	109-99-9	-	50.	1.11E-02		2.22E-02		
Thallium	7440-28-0	2.	2.	1.42E-01		2.84E-01		
Toluene	108-88-3	1,000.	800.	5.54E-01		1.11E+00	0.031	
Toxaphene	8001-35-2	3.	3.	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200.	200.	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5.	5.	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5.	5.	1.79E-03		3.58E-03	0.206	E
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50.	50.	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60.	2.59E-02		5.19E-02		

02-41-119925

B-9

S-2

2-4'

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Trifluralin	1582-09-8	-	7.5	2.47E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480.	6.91E-01		1.38E+00		
Vanadium	7440-62-2	-	30.	3.00E+01		6.00E+01		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		1.38E-04	0.01	E
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97E+00		3.94E+00	0.099	

02-41-119925

B-9

S-2

2-41

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Appendix D
Groundwater Quality Test Results

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # Nº 270[illegible]

Page 01 of 01

Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #: 3023

Sampler: (signature) Ragbir B. Singh

Project (Name / Location): 3217 W Villard Avenue, Milwaukee, WI 53209

Reports To: Ragbir B. Singh	Invoice To: Frank Joher
Company OM Enterprises, Inc.	Company Villard Foodtown, LLC
Address 124 W Scott Street	Address 3217 W Villard Avenue
City State Zip Fond du Lac, WI 54935	City State Zip Milwaukee, WI 53209
Phone (262) 853-0712	Phone
FAX (920) 923-3950	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
5030965 A	MW-1	5/2/16	8:30		X	N/A	3	GW	HCl													X		
B	MW-2	"	9:15		X	N/A	3	GW	HCl													X		
C	MW-3	"	10:00		X	N/A	3	GW	HCl													X		
D	MW-4	"	10:30		X	N/A	3	GW	HCl													X		
E	MW-5	"	12:10		X	N/A	3	GW	HCl													X		
F	MW-6	"	1:55		X	N/A	3	GW	HCl													X		
G	MW-7	"	3:45		X	N/A	3	GW	HCl													X		
H	PZ-1	"	5:30		X	N/A	3	GW	HCl													X		
I	PZ-2	"	7:30		X	N/A	3	GW	HCl													X		

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Client
Temp. of Temp. Blank ___ °C On Ice: X
[illegible]: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Ragbir B. Singh	1:08	5/3/16			

Received in Laboratory By: [signature] Time: 13:08 Date: 5/3/16

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

RAGHU B SINGH, PH D
OM ENTERPRISES, INC.
124 W. SCOTT STREET
FOND DU LAC, WI 54935

Report Date *06-May-16*

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965A
Sample ID MW-1
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 88	ug/l	88	280	200	8260B		5/4/2016	CJR	1
Bromobenzene	< 96	ug/l	96	300	200	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 92	ug/l	92	300	200	8260B		5/4/2016	CJR	1
Bromoform	< 92	ug/l	92	300	200	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 220	ug/l	220	680	200	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 240	ug/l	240	760	200	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 200	ug/l	200	660	200	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 102	ug/l	102	320	200	8260B		5/4/2016	CJR	1
Chlorobenzene	< 92	ug/l	92	280	200	8260B		5/4/2016	CJR	1
Chloroethane	< 130	ug/l	130	420	200	8260B		5/4/2016	CJR	1
Chloroform	< 86	ug/l	86	280	200	8260B		5/4/2016	CJR	1
Chloromethane	< 380	ug/l	380	1200	200	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 80	ug/l	80	260	200	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 126	ug/l	126	400	200	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 280	ug/l	280	900	200	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 90	ug/l	90	280	200	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 98	ug/l	98	320	200	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 104	ug/l	104	320	200	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 92	ug/l	92	300	200	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 174	ug/l	174	560	200	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 96	ug/l	96	300	200	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 220	ug/l	220	720	200	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 130	ug/l	130	420	200	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	2260	ug/l	90	280	200	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 108	ug/l	108	340	200	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 86	ug/l	86	274	200	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 620	ug/l	620	1960	200	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 84	ug/l	84	260	200	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 88	ug/l	88	280	200	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 126	ug/l	126	400	200	8260B		5/4/2016	CJR	1
Ethylbenzene	< 142	ug/l	142	460	200	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 440	ug/l	440	1420	200	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 164	ug/l	164	520	200	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965A
Sample ID MW-1
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 220	ug/l	220	700	200	8260B		5/4/2016	CJR	1
Methylene chloride	< 260	ug/l	260	840	200	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 220	ug/l	220	740	200	8260B		5/4/2016	CJR	1
Naphthalene	< 320	ug/l	320	1040	200	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 154	ug/l	154	480	200	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 104	ug/l	104	340	200	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 96	ug/l	96	300	200	8260B		5/4/2016	CJR	1
Tetrachloroethene	22100	ug/l	98	300	200	8260B		5/4/2016	CJR	1
Toluene	< 88	ug/l	88	280	200	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 340	ug/l	340	1120	200	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 540	ug/l	540	1720	200	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 168	ug/l	168	540	200	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 96	ug/l	96	304	200	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	2940	ug/l	94	300	200	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 174	ug/l	174	560	200	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 320	ug/l	320	1000	200	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 300	ug/l	300	960	200	8260B		5/4/2016	CJR	1
Vinyl Chloride	104 "J"	ug/l	34	108	200	8260B		5/4/2016	CJR	1
m&p-Xylene	< 440	ug/l	440	1380	200	8260B		5/4/2016	CJR	1
o-Xylene	< 180	ug/l	180	580	200	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	103	REC %			200	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	104	REC %			200	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			200	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	117	REC %			200	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965B
Sample ID MW-2
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965C
Sample ID MW-3
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	5.9	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	1.17 "J"	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	0.66 "J"	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	2.01	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965D
Sample ID MW-4
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		5/4/2016	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		5/4/2016	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		5/4/2016	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		5/4/2016	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		5/4/2016	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		5/4/2016	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	313	ug/l	4.5	14	10	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	15.7 "J"	ug/l	5.4	17	10	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		5/4/2016	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		5/4/2016	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		5/4/2016	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		5/4/2016	CJR	1
Tetrachloroethene	44	ug/l	4.9	15	10	8260B		5/4/2016	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	24.6	ug/l	4.7	15	10	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		5/4/2016	CJR	1
Vinyl Chloride	60	ug/l	1.7	5.4	10	8260B		5/4/2016	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		5/4/2016	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	106	REC %			10	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	99	REC %			10	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			10	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			10	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965E
Sample ID MW-5
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	109	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965F
Sample ID MW-6
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965G
Sample ID MW-7
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965H
Sample ID PZ-1
Sample Matrix Water
Sample Date 5/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/4/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/4/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/4/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/4/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/4/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/4/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/4/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/4/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/4/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/4/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/4/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/4/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/4/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/4/2016	CJR	1
cis-1,2-Dichloroethene	84	ug/l	0.45	1.4	1	8260B		5/4/2016	CJR	1
trans-1,2-Dichloroethene	0.99 "J"	ug/l	0.54	1.7	1	8260B		5/4/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/4/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/4/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/4/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/4/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/4/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/4/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/4/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/4/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/4/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/4/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/4/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/4/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/4/2016	CJR	1
Tetrachloroethene	75	ug/l	0.49	1.5	1	8260B		5/4/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/4/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/4/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/4/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/4/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/4/2016	CJR	1
Trichloroethene (TCE)	20.2	ug/l	0.47	1.5	1	8260B		5/4/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/4/2016	CJR	1
Vinyl Chloride	0.97	ug/l	0.17	0.54	1	8260B		5/4/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/4/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/4/2016	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		5/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	88	REC %			1	8260B		5/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		5/4/2016	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		5/4/2016	CJR	1

Project Name 3217 W. VILLARD AVE., **Invoice #** E30965
Project # 3023

Lab Code 5030965I
Sample ID PZ-2
Sample Matrix Water
Sample Date 5/2/2016

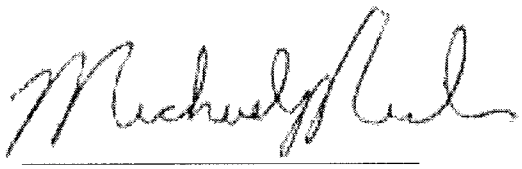
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 220	ug/l	220	700	500	8260B		5/6/2016	CJR	1
Bromobenzene	< 240	ug/l	240	750	500	8260B		5/6/2016	CJR	1
Bromodichloromethane	< 230	ug/l	230	750	500	8260B		5/6/2016	CJR	1
Bromoform	< 230	ug/l	230	750	500	8260B		5/6/2016	CJR	1
tert-Butylbenzene	< 550	ug/l	550	1700	500	8260B		5/6/2016	CJR	1
sec-Butylbenzene	< 600	ug/l	600	1900	500	8260B		5/6/2016	CJR	1
n-Butylbenzene	< 500	ug/l	500	1650	500	8260B		5/6/2016	CJR	1
Carbon Tetrachloride	< 255	ug/l	255	800	500	8260B		5/6/2016	CJR	1
Chlorobenzene	< 230	ug/l	230	700	500	8260B		5/6/2016	CJR	1
Chloroethane	< 325	ug/l	325	1050	500	8260B		5/6/2016	CJR	1
Chloroform	< 215	ug/l	215	700	500	8260B		5/6/2016	CJR	1
Chloromethane	< 950	ug/l	950	3000	500	8260B		5/6/2016	CJR	1
2-Chlorotoluene	< 200	ug/l	200	650	500	8260B		5/6/2016	CJR	1
4-Chlorotoluene	< 315	ug/l	315	1000	500	8260B		5/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 700	ug/l	700	2250	500	8260B		5/6/2016	CJR	1
Dibromochloromethane	< 225	ug/l	225	700	500	8260B		5/6/2016	CJR	1
1,4-Dichlorobenzene	< 245	ug/l	245	800	500	8260B		5/6/2016	CJR	1
1,3-Dichlorobenzene	< 260	ug/l	260	800	500	8260B		5/6/2016	CJR	1
1,2-Dichlorobenzene	< 230	ug/l	230	750	500	8260B		5/6/2016	CJR	1
Dichlorodifluoromethane	< 435	ug/l	435	1400	500	8260B		5/6/2016	CJR	1
1,2-Dichloroethane	< 240	ug/l	240	750	500	8260B		5/6/2016	CJR	1
1,1-Dichloroethane	< 550	ug/l	550	1800	500	8260B		5/6/2016	CJR	1
1,1-Dichloroethene	< 325	ug/l	325	1050	500	8260B		5/6/2016	CJR	1
cis-1,2-Dichloroethene	230 "J"	ug/l	225	700	500	8260B		5/6/2016	CJR	1
trans-1,2-Dichloroethene	< 270	ug/l	270	850	500	8260B		5/6/2016	CJR	1
1,2-Dichloropropane	< 215	ug/l	215	685	500	8260B		5/6/2016	CJR	1
2,2-Dichloropropane	< 1550	ug/l	1550	4900	500	8260B		5/6/2016	CJR	1
1,3-Dichloropropane	< 210	ug/l	210	650	500	8260B		5/6/2016	CJR	1
Di-isopropyl ether	< 220	ug/l	220	700	500	8260B		5/6/2016	CJR	1
EDB (1,2-Dibromoethane)	< 315	ug/l	315	1000	500	8260B		5/6/2016	CJR	1
Ethylbenzene	< 355	ug/l	355	1150	500	8260B		5/6/2016	CJR	1
Hexachlorobutadiene	< 1100	ug/l	1100	3550	500	8260B		5/6/2016	CJR	1
Isopropylbenzene	< 410	ug/l	410	1300	500	8260B		5/6/2016	CJR	1
p-Isopropyltoluene	< 550	ug/l	550	1750	500	8260B		5/6/2016	CJR	1
Methylene chloride	< 650	ug/l	650	2100	500	8260B		5/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 550	ug/l	550	1850	500	8260B		5/6/2016	CJR	1
Naphthalene	< 800	ug/l	800	2600	500	8260B		5/6/2016	CJR	1
n-Propylbenzene	< 385	ug/l	385	1200	500	8260B		5/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 260	ug/l	260	850	500	8260B		5/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 240	ug/l	240	750	500	8260B		5/6/2016	CJR	1
Tetrachloroethene	39000	ug/l	245	750	500	8260B		5/6/2016	CJR	1
Toluene	< 220	ug/l	220	700	500	8260B		5/6/2016	CJR	1
1,2,4-Trichlorobenzene	< 850	ug/l	850	2800	500	8260B		5/6/2016	CJR	1
1,2,3-Trichlorobenzene	< 1350	ug/l	1350	4300	500	8260B		5/6/2016	CJR	1
1,1,1-Trichloroethane	< 420	ug/l	420	1350	500	8260B		5/6/2016	CJR	1
1,1,2-Trichloroethane	< 240	ug/l	240	760	500	8260B		5/6/2016	CJR	1
Trichloroethene (TCE)	670 "J"	ug/l	235	750	500	8260B		5/6/2016	CJR	1
Trichlorofluoromethane	< 435	ug/l	435	1400	500	8260B		5/6/2016	CJR	1
1,2,4-Trimethylbenzene	< 800	ug/l	800	2500	500	8260B		5/6/2016	CJR	1
1,3,5-Trimethylbenzene	< 750	ug/l	750	2400	500	8260B		5/6/2016	CJR	1
Vinyl Chloride	< 85	ug/l	85	270	500	8260B		5/6/2016	CJR	1
m&p-Xylene	< 1100	ug/l	1100	3450	500	8260B		5/6/2016	CJR	1
o-Xylene	< 450	ug/l	450	1450	500	8260B		5/6/2016	CJR	1
SUR - Toluene-d8	101	REC %			500	8260B		5/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			500	8260B		5/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %			500	8260B		5/6/2016	CJR	1
SUR - Dibromofluoromethane	101	REC %			500	8260B		5/6/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

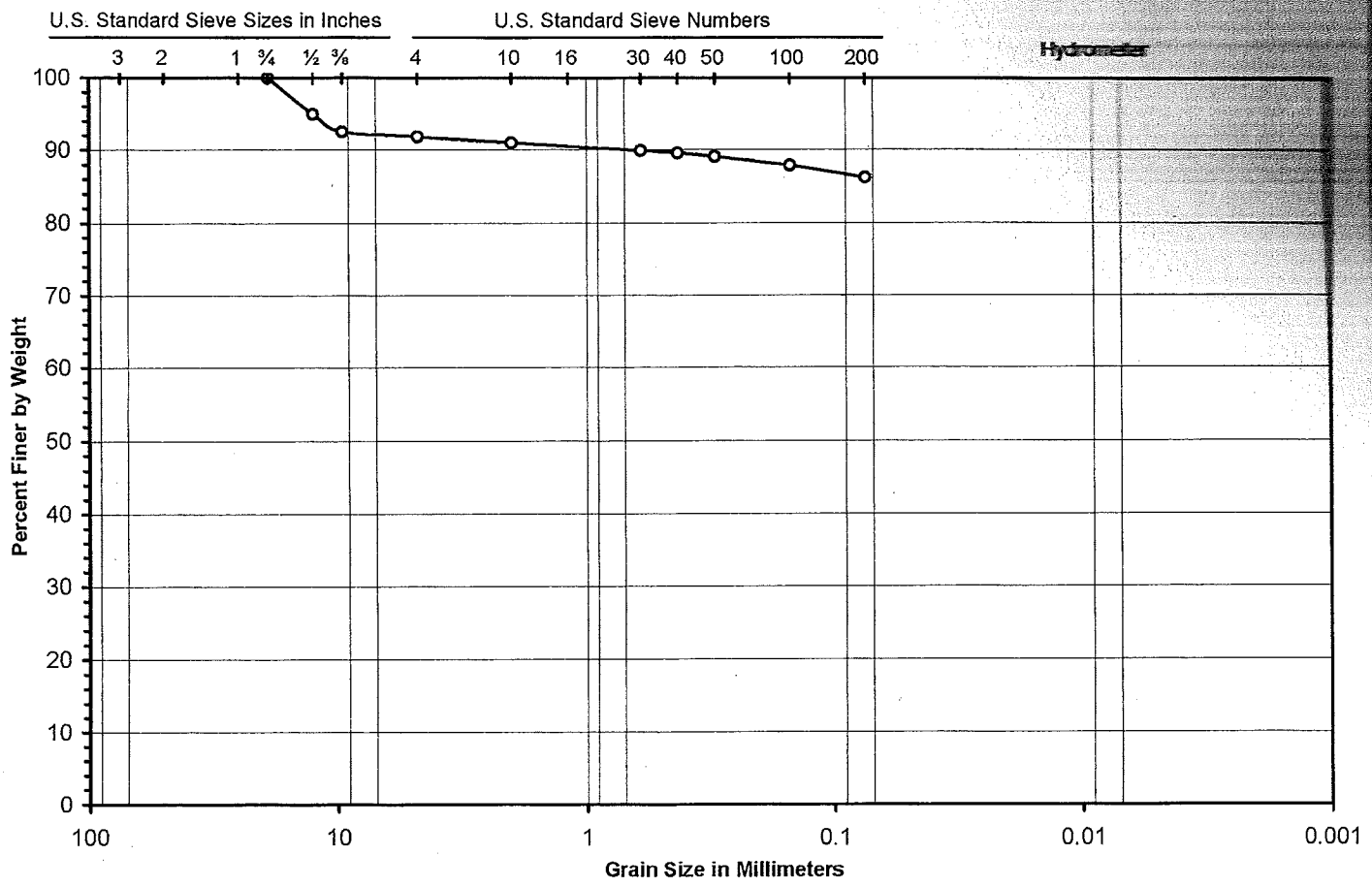
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Appendix E
Grain Size Analysis and Hydraulic Conductivity Testing

GRAIN SIZE ANALYSIS TEST RESULTS



UNIFIED	GRAVEL	SAND	SILT AND CLAY
AASHTO	GRAVEL	SAND	SILT AND CLAY

SIEVE SIZE	PERCENT FINER	SPEC
125 mm (5")	-	-
100 mm (4")	-	-
90 mm (3½")	-	-
75 mm (3")	-	-
63 mm (2½")	-	-
50 mm (2")	-	-
37.5 mm (1½")	-	-
31.5 mm (1¼")	-	-
25.0 mm (1")	-	-
19.0 mm (3/4")	100.0	-
12.5 mm (1/2")	94.9	-
9.5 mm (3/8")	92.5	-
4.75 mm (# 4)	91.8	-
2.36 mm (# 8)	-	-
2.00 mm (# 10)	91.0	-
1.18 mm (# 16)	-	-
600 µm (# 30)	89.9	-
425 µm (# 40)	89.5	-
300 µm (# 50)	89.0	-
180 µm (# 80)	-	-
150 µm (# 100)	87.8	-
75 µm (# 200)	86.2	-

SAMPLE ID: B-5, MW-5, S-6, 10'-12'

Description/Classification

Silt/Clay (ML/MH/CL/CH/CL-ML)

Coefficients

D_{60} = -- mm
D_{30} = -- mm
D_{10} = -- mm
C_u = --
C_c = --

Other Test Data

Moisture Content = percent
Dry Unit Weight = lbs./cu.ft.
Hydraulic Conductivity = cm./sec.
Liquid Limit =
Plastic Limit =

Wisconsin Testing Laboratories LLC

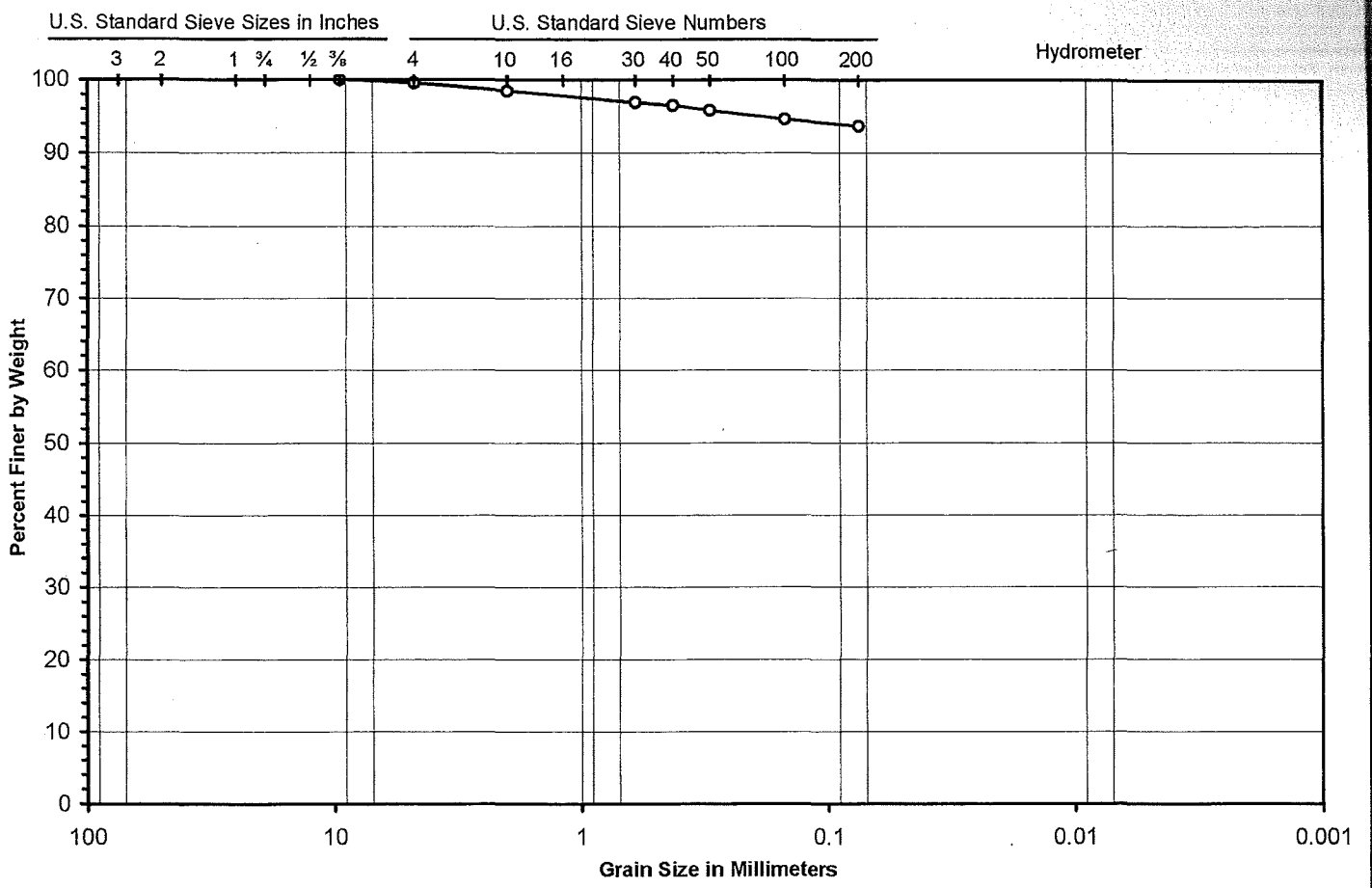
Job No. 0165-16-001

SHOP RITE GROCERY / VILLARD FOODTOWN
3217 West Villard Avenue
Milwaukee, Wisconsin 53209

For OM Enterprises, Inc.
Project No. 3023

May 4, 2016

GRAIN SIZE ANALYSIS TEST RESULTS



UNIFIED	GRAVEL		SAND	SILT AND CLAY
AASHTO	GRAVEL		SAND	SILT AND CLAY

SIEVE SIZE	PERCENT FINER	SPEC
125 mm (5")	-	-
100 mm (4")	-	-
90 mm (3½")	-	-
75 mm (3")	-	-
63 mm (2½")	-	-
50 mm (2")	-	-
37.5 mm (1½")	-	-
31.5 mm (1¼")	-	-
25.0 mm (1")	-	-
19.0 mm (3/4")	-	-
12.5 mm (1/2")	-	-
9.5 mm (3/8")	100.0	-
4.75 mm (# 4)	99.6	-
2.36 mm (# 8)	-	-
2.00 mm (# 10)	98.5	-
1.18 mm (# 16)	-	-
600 µm (# 30)	96.9	-
425 µm (# 40)	96.5	-
300 µm (# 50)	95.8	-
180 µm (# 80)	-	-
150 µm (# 100)	94.6	-
75 µm (# 200)	93.7	-

SAMPLE ID: B-6, MW-6, S-6, 10'-12'

Description/Classification

Silt/Clay (ML/MH/CL/CH/CL-ML)

Coefficients

D_{60} = -- mm
D_{30} = -- mm
D_{10} = -- mm
C_u = --
C_c = --

Other Test Data

Moisture Content = percent
Dry Unit Weight = lbs./cu.ft.
Hydraulic Conductivity = cm./sec.
Liquid Limit =
Plastic Limit =

Wisconsin Testing Laboratories LLC

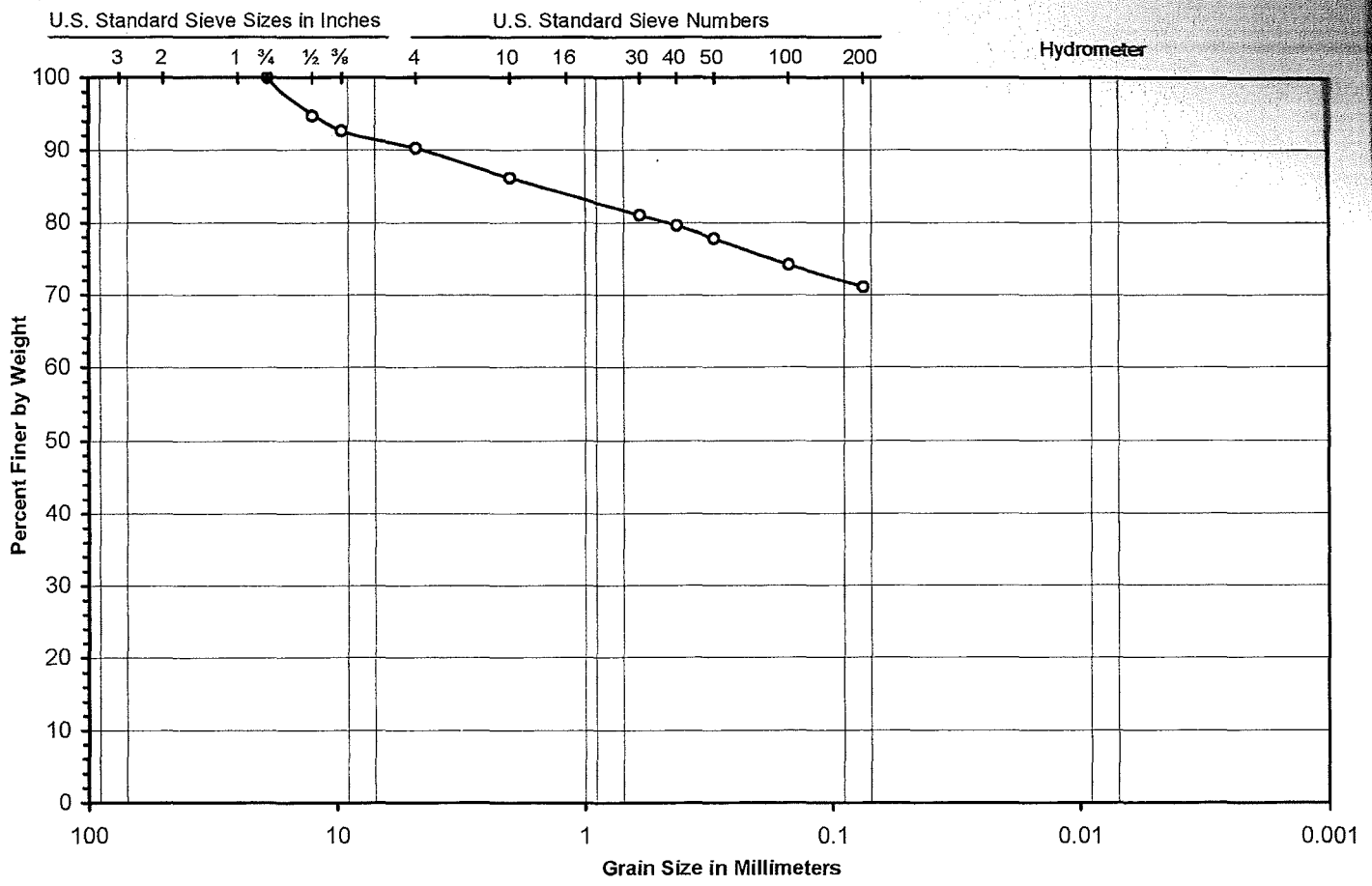
Job No. 0165-16-001

SHOP RITE GROCERY / VILLARD FOODTOWN
3217 West Villard Avenue
Milwaukee, Wisconsin 53209

For OM Enterprises, Inc.
Project No. 3023

May 4, 2016

GRAIN SIZE ANALYSIS TEST RESULTS



UNIFIED	GRAVEL		SAND	SILT AND CLAY
AASHTO	GRAVEL		SAND	SILT AND CLAY

SIEVE SIZE	PERCENT FINER	SPEC
125 mm (5")	-	-
100 mm (4")	-	-
90 mm (3½")	-	-
75 mm (3")	-	-
63 mm (2½")	-	-
50 mm (2")	-	-
37.5 mm (1½")	-	-
31.5 mm (1¼")	-	-
25.0 mm (1")	-	-
19.0 mm (3/4")	100.0	-
12.5 mm (1/2")	94.7	-
9.5 mm (3/8")	92.6	-
4.75 mm (# 4)	90.3	-
2.36 mm (# 8)	-	-
2.00 mm (# 10)	86.2	-
1.18 mm (# 16)	-	-
600 µm (# 30)	81.0	-
425 µm (# 40)	79.6	-
300 µm (# 50)	77.8	-
180 µm (# 80)	-	-
150 µm (# 100)	74.2	-
75 µm (# 200)	71.1	-

SAMPLE ID: B-7, MW-7, S-6, 10'-12'

Description/Classification

Silt/Clay with sand (ML/MH/CL/CH/CL-ML)

Coefficients

D_{60} = -- mm
D_{30} = -- mm
D_{10} = -- mm
C_u = --
C_c = --

Other Test Data

Moisture Content = percent
Dry Unit Weight = lbs./cu.ft.
Hydraulic Conductivity = cm./sec.
Liquid Limit =
Plastic Limit =

Wisconsin Testing Laboratories LLC

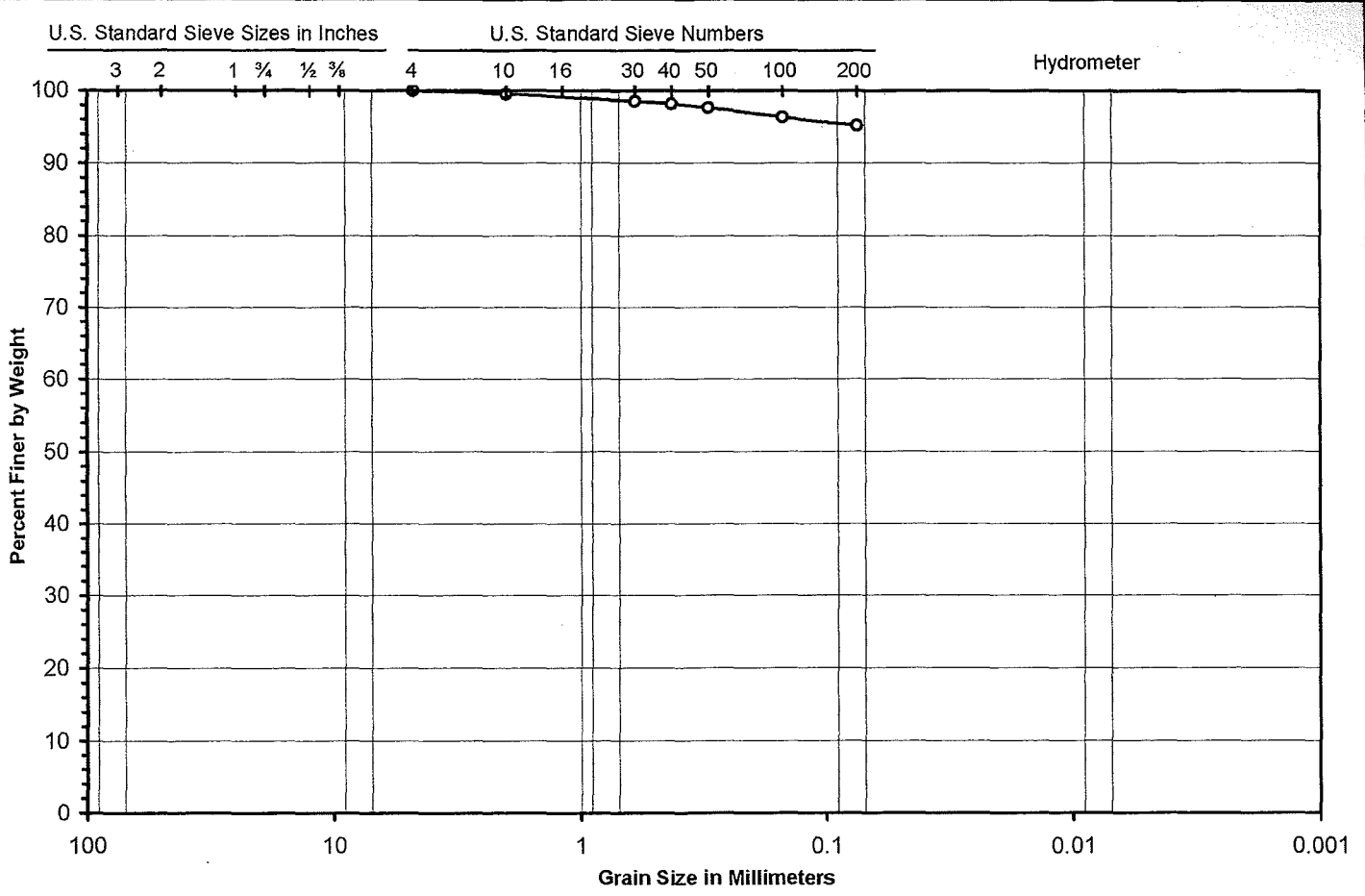
Job No. 0165-16-001

SHOP RITE GROCERY / VILLARD FOODTOWN
3217 West Villard Avenue
Milwaukee, Wisconsin 53209

For OM Enterprises, Inc.
Project No. 3023

May 4, 2016

GRAIN SIZE ANALYSIS TEST RESULTS



UNIFIED	GRAVEL		SAND	SILT AND CLAY
AASHTO	GRAVEL		SAND	SILT AND CLAY

SIEVE SIZE	PERCENT FINER	SPEC
125 mm (5")	-	-
100 mm (4")	-	-
90 mm (3½")	-	-
75 mm (3")	-	-
63 mm (2½")	-	-
50 mm (2")	-	-
37.5 mm (1½")	-	-
31.5 mm (1¼")	-	-
25.0 mm (1")	-	-
19.0 mm (3/4")	-	-
12.5 mm (1/2")	-	-
9.5 mm (3/8")	-	-
4.75 mm (# 4)	100.0	-
2.36 mm (# 8)	-	-
2.00 mm (# 10)	99.5	-
1.18 mm (# 16)	-	-
600 µm (# 30)	98.6	-
425 µm (# 40)	98.2	-
300 µm (# 50)	97.6	-
180 µm (# 80)	-	-
150 µm (# 100)	96.3	-
75 µm (# 200)	95.2	-

SAMPLE ID: B-8, PZ-1, S-11, 20'-22'

Description/Classification

Silt/Clay (ML/MH/CL/CH/CL-ML)

Coefficients

D_{60} = -- mm
D_{30} = -- mm
D_{10} = -- mm
C_u = --
C_c = --

Other Test Data

Moisture Content = percent
Dry Unit Weight = lbs./cu.ft.
Hydraulic Conductivity = cm./sec.
Liquid Limit =
Plastic Limit =

Wisconsin Testing Laboratories LLC

Job No. 0165-16-001

SHOP RITE GROCERY / VILLARD FOODTOWN
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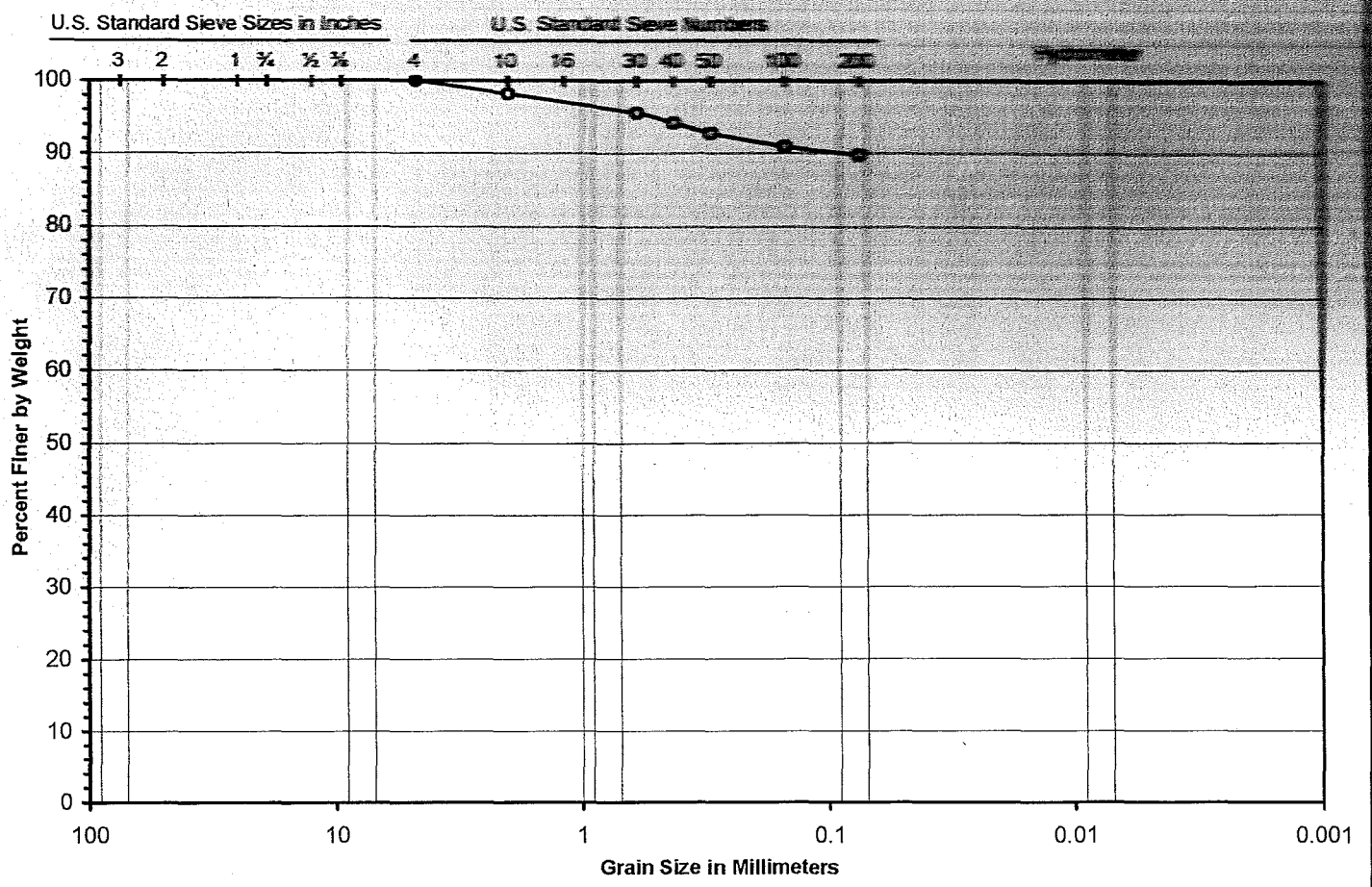
Project No. 3023

May 4, 2016

GRAIN SIZE ANALYSIS TEST RESULTS



UNIFIED	GRAVEL		SAND	SILT AND CLAY
AASHTO	GRAVEL		SAND	SILT AND CLAY

SIEVE SIZE	PERCENT FINER	SPEC
125 mm (5")	-	-
100 mm (4")	-	-
90 mm (3½")	-	-
75 mm (3")	-	-
63 mm (2½")	-	-
50 mm (2")	-	-
37.5 mm (1½")	-	-
31.5 mm (1¼")	-	-
25.0 mm (1")	-	-
19.0 mm (3/4")	-	-
12.5 mm (1/2")	-	-
9.5 mm (3/8")	-	-
4.75 mm (# 4)	100.0	-
2.36 mm (# 8)	-	-
2.00 mm (# 10)	98.2	-
1.18 mm (# 16)	-	-
600 µm (# 30)	95.5	-
425 µm (# 40)	94.2	-
300 µm (# 50)	92.7	-
180 µm (# 80)	-	-
150 µm (# 100)	91.0	-
75 µm (# 200)	89.8	-

SAMPLE ID: B-9, PZ-2, S-11, 20'-22'

Description/Classification

Silt/Clay (ML/MH/CL/CH/CL-ML)

Coefficients

D_{60} = -- mm
D_{30} = -- mm
D_{10} = -- mm
C_u = --
C_c = --

Other Test Data

Moisture Content = percent
Dry Unit Weight = lbs./cu.ft.
Hydraulic Conductivity = cm./sec.
Liquid Limit =
Plastic Limit =

Wisconsin Testing Laboratories LLC

Job No. 0165-16-001

SHOP RITE GROCERY / VILLARD FOODTOWN
3217 West Villard Avenue
Milwaukee, Wisconsin 53209

For OM Enterprises, Inc.
Project No. 3023

May 4, 2016

Gmail Raghu Singh <raghuom@gmail.com>

FW: GeoTest Report for project: 5054 / Report: 16-2553-1 and 2 others...

1 message

Jeff Smith <jsmith@witestlab.com> Wed, Jun 22, 2016 at 9:53 AM
To: Raghu Singh <raghuom@gmail.com>

Raghu,
The results of the hydraulic conductivity tests are attached. GeoTest's Sample No. 16-2553-1 is from your Project No. 3023, MW-5, S-6. Sample No. 16-2553-2 is from your Project No. 3024, MW-2, S-6.
Thank you,

Jeffrey G. Smith, P.E.
Principal Engineer
Wisconsin Testing Laboratories, LLC
W140 N5886 Lilly Road, Menomonee Falls, WI 53051-6046
Phone 262-252-3300 Ext. 100 / Fax 262-252-5373 / Cell 262-707-1121
jsmith@witestlab.com

-----Original Message-----
From: support@elmtreesystem.com [mailto:support@elmtreesystem.com] On Behalf Of GeoTest Inc.
Sent: Wednesday, June 22, 2016 9:09 AM
To: jsmith@witestlab.com
Subject: GeoTest Report for project: 5054 / Report: 16-2553-1 and 2 others...

Dear Jeffery Smith,

Attached are your new reports from GeoTest Inc..

Thank you,
GeoTest Inc.

3 attachments

- **16-2553-1.pdf** 100K
- **16-2553-2.pdf** 100K
- **16-2553.pdf** 70K

GeoTest

2135 South 116th Street
West Allis, WI 53227
414-321-8236

REPORT: **Laboratory Test Report - Hydraulic Conductivity**

LAB NO: **16-2553-1**
Test Method: See **Below**

Project: OM Project
Location:
Client: Wisconsin Testing Labs, LLC
Acct. No: WITESTI
Client PO:

Report Date: **06/09/2016**
Date Sampled: **06/09/2016**
Sampled By: Emil Bautista
By Order Of: Client
Order Number:
Report No: 16-2553-1
Project No: 5054

Field Number: MW-5, S6

TEST RESULTS

Thank you for giving us the opportunity to be of service. Attached are your laboratory test results.

Test Methods (If Applicable):ASTM D5084, D2434

Orig: Wisconsin Testing Labs, LLC (Menomonee Falls, WI)
Attn: Jeffery Smith (1-ec copy)

Respectfully Submitted,
GeoTest, Inc.

Emil G. Bautista, Testing Services Manager

GeoTest, Inc.
2135 S. 116th Street West Allis, Wisconsin 53227
414-321-8378 fax 414-321-8359

Hydraulic Conductivity of Saturated Porous Materials
Laboratory Test Report

Project:	OM Project	Report Date:	6/21/2016
Location:		Report No.:	16-2553
Client:	Wisconsin Testing Laboratories, LLC	Project No.:	5054
Source:		Sampled By:	Client
Test	Flex -Wall Hydraulic Conductivity - ASTM D5084	Date Sampled:	6/2/2016
Material Type:	Clay		

Sampled at:

Sample	Description	Test Result	Units	
16-2553-1	Red Lean CLAY with trace of Sand	< 1.00 E-8	cm/s	MW-5 S-6
16-2553-2	Brown Lean CLAY with trace of Sand	< 1.00 E-9	cm/s	

Note: ASTM D5084 calls for outflow to inflow ratio between 0.75 and 1.25. Due to the extremely low hydraulic conductivity flow ratios were not between the recommend range. Since the ratio of outflow to inflow rate was not able to be establish for these samples, a precise number for hydraulic conductivity was not able to be calculated. Instead a range was given.