FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

August 13, 2015

Mr. Matt Fineour, P.E.
Village Engineer
Village of Pleasant Prairie
9915 S 39th Avenue
Pleasant Prairie, WI 53158-6504

**Subject: Monthly Summary Report (July 2015) - Former BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI**
**BRRTS #: 02-30-557069, WDNR Facility ID #: 230103830, WPDES Permit #WI-0046566-06**

Mr. Fineour,

This monthly report covers the activities required to be reported in the June 15, 2015 Amendment #3 to the Settlement Agreement between the Village of Pleasant Prairie, Wisconsin (referred to as the "Village") and VIDHYA Corp VIII, Inc. (referred to as "Vidhya"). Quarterly reports will be more comprehensive, and will be initiated in late August-September 2015.

## System Flow Rates

Total flow for the groundwater treatment system is 891,300 gallons since initiation in April 2013. Included in that total is 186,000 gallons from dewatering operations from the tank installation that were not generated by the existing pumping system (Table 1). Operations in July 2015 indicate the total system flow averaged 589 gallons per day (gal/day) from the three sumps. A chart of the daily flow rate over time is attached (through July 29, 2015), and indicates the low flow rates and stable performance of the system (Figure 1).

## Remediation System (Zeolite & Carbon Chambers)

The groundwater treatment system has been pumping an average of 1,300 gal/day since system startup in April 2013 and 922 gal/day over the past year (Table 1). The life expectancy is based on the influent chemistry, flow rate, and calculation provided by the carbon manufacturer. Current life expectancy data is based on the worst case influent chemistry and an average daily flow rate of 1,300 gallons a day, both of which are conservative assumptions:

- Zeolite life = 2,850,000 gallons. Volume treated since media change-out on 10/1/2013 = 534,950 gallons. There is approximately 4.9-years (2,315,050 gallons) remaining of zeolite life before theoretical breakthrough may occur from the zeolite vessel.

- Carbon Vessel-1 life = 720,000 gallons. Volume treated since media change-out on 5/29/2013 = 593,750 gallons. There are approximately 3-months (126,250 gallons) remaining of Carbon Vessel-1 life before theoretical breakthrough may occur from Carbon Vessel-1.
- Carbon Vessel-2 (effluent) life = 2,160,000 gallons. Volume treated since media change-out on 5/29/2013 = 593,750 gallons. There are approximately 3.3-years (1,566,250 gallons) remaining of Carbon Vessel-2 (effluent) life before theoretical breakthrough may occur from the Carbon Vessel-2 (effluent) vessel.

To verify when breakthrough may occur for Carbon Vessel-1, a water sample was obtained in June 2015, approximately three months prior to the calculated breakthrough point based on total system flow. The sample was obtained from the water exiting Carbon Vessel-1 by North Shore Environmental Construction (NSEC) staff, and was analyzed for Petroleum Volatile Organic Compounds+Naphthalene (PVOCs+N) by Pace Laboratory. Results indicate no analytes were above laboratory method detection limits, so breakthrough had not occurred at that time (Table 1). Fehr Graham re-sampled Carbon Vessel-1 on July 29, 2015 for continued evaluation of potential breakthrough, and the results are pending. Continued monitoring of the discharge from Carbon Vessel -1 will continue on a quarterly basis until breakthrough is observed, at which time arrangements will be made to change out the carbon.

Due to the calculated extended remaining life for the Zeolite, no testing is anticipated in the near future, but the actual influent chemistry for the historic groundwater flow through the system will be provided to the chemical supplier to recalculate remaining Zeolite life.

## NSEC Monthly Inspections

Historically, Fehr Graham and NSEC have coordinated the chemical sampling schedule with system checks so that someone is visiting the site approximately every two weeks. These site inspections include recording the system flow, water levels from the site monitoring sumps, examination of the four baffles inside the storm drain, observation of the ditch line and inspection of the treatment system equipment for cracks, leaks, corrosion and other signs of wear. NSEC's assessment results and inspection sheets for June-July 2015 can be found in Attachment A. All observations indicate normal conditions.

## Storm Water Collection and Disposal from Gasoline Tank Manway

After a storm event, NSEC was contacted by BP-Pleasant Prairie on July 3, 2015 to remove water from inside the top of one of the fuel tanks. NSEC pumped 700-gallons of water out of the manway of gasoline tanks #1 and #2 (Figure 2). NSEC stated the water appeared to have a slight petroleum sheen that likely resulted from storm water runoff from a rain event. The water was transported to Port Washington waste water treatment plant and repairs were made to the manway edge to try and remedy the situation. NSEC's water removal information for July 2015 can be found in Attachment B.

## Ditch Inspections and Oily Sheen Observation

NSEC inspected the ditch line on July 3 and July 20, 2015, and Fehr Graham conducted a more comprehensive ditch inspection on July 29, 2015. Overall, the ditch was well maintained: the vegetation was cut, there was standing but not flowing water, no sheen coming out of the storm water or groundwater treatment system effluent pipes (Photo 1) and the ditch line was free of debris (Photo 2 and Photo 3). Additionally, the oil absorbent boom was oil-free and in good condition at Culvers property line (Photo 4). Upstream of the effluent culvert pipes west of the BP building the ditch also looked good. The ditch was dry with recently mowed grass and no petroleum sheen observations.

However, intermittent sporadic sheens of oil were observed in occasional ponded water from the approximate Culvers property line / absorbent boom to approximately 18-feet west (Photo 5). Photo 6 is a representative photo of what the oil sheens looked like on the south side of the ditch line on the BP property. Fehr Graham notified NSEC of the presence of the oily sheen pockets, and two additional absorbent booms have been placed perpendicular and parallel to these areas to help address potential future impacts related to this situation (Photo 7). A photolog of the ditchline is included in Attachment C along with the ditch inspection sheet for July 2015. NSEC ditch inspection information is included on their inspection sheets in Attachment A. Future review for oil sheens and the need for additional oil boom change-outs will be performed by NSEC on a biweekly basis, with occasional inspection by Fehr Graham staff.

Fehr Graham trained Vidhya staff to assist them with the completion of future ditch inspection efforts. Fehr Graham has also coordinated with Vidhya staff regarding the need to perform ditch inspections after significant rain events of 0.5-inches or more in a 24-hour period.

## Water Level and Free Product Measurements

Fehr Graham and NSEC have been monitoring the level of water in the recovery sumps to verify the system is able to maintain water levels below the target depth of 8-feet below grade. Fehr Graham's water level measurements are shown on the Table 2, and indicate the water levels in the sumps are being maintained below the targeted depth.

## System Alarm and Notification

NSEC has proposed to install a new system emergency detection alarm that will detect power failure, in addition to the existing alarm that can detect high water levels. This system will be setup to notify three parties (BP-Pleasant Prairie, NSEC and Fehr Graham) if the water treatment system high alarm trips as a result of power failure. This alarm system will also include its own backup battery system which will provide eight hours of service in the event of a power failure.

Grunau Company (1100 W Anderson Court, Oak Creek, WI 53154) will be doing the alarm installation work. NSEC showed them the system and what had to be done on July 20, 2015. Grunau Company will be assigning an electrician to start working on the system after a building permit to do the electrical work at the site has been obtained. The

installation date has yet to be determined.

Information regarding the chemistry results from the groundwater pumping and treatment system influent and effluent, plus results from the third quarterly round of groundwater monitoring from the site monitoring wells will be provided shortly in the quarterly monitoring report.

I trust this information meets your needs. Please feel free to contact me with any comments or questions.

I look forward to your feedback.

Sincerely,

Matt Dahlem, P.G.
Senior Project Hydrogeologist

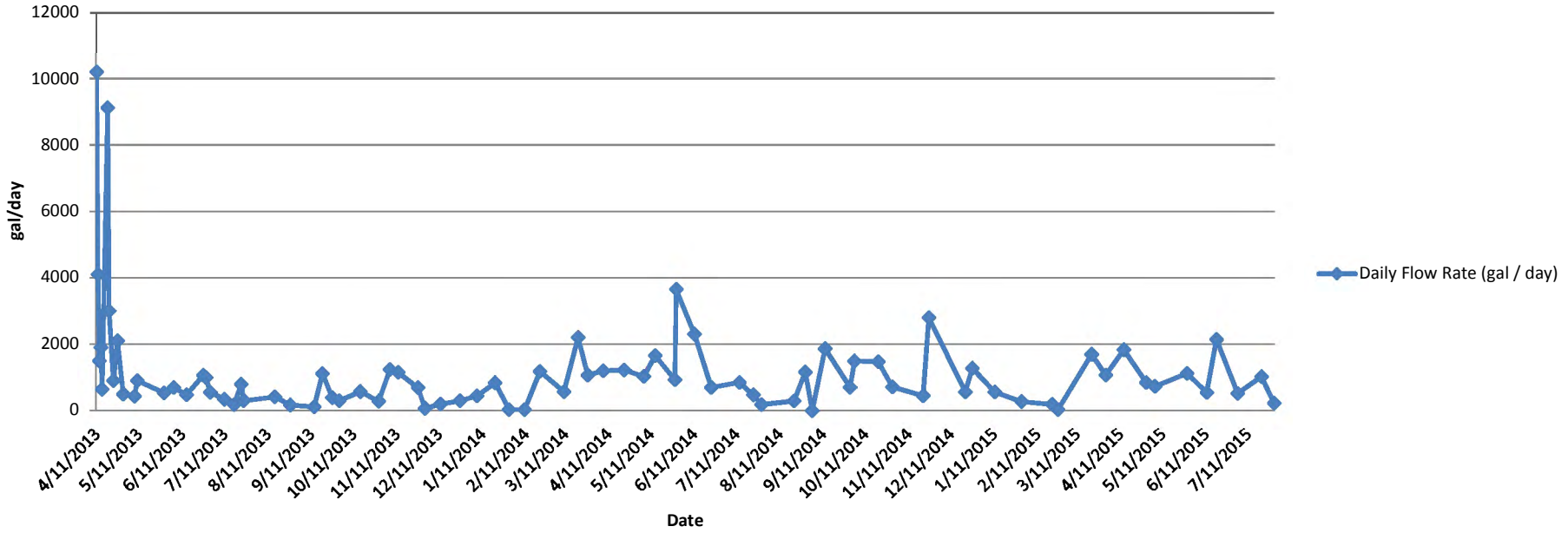
Attachments:
Figure 1: Average Daily Flow Rate Graph
Figure 2: Monitoring Well - Sump - UST Locations
Table 1: Groundwater Treatment System Monitoring Results
Table 2: Water Level Measurements
Attachment A: Inspection Sheets – June-July 2015
Attachment B: NSEC Inspection and Water Removal Summary Report
Attachment C: Photolog

Cc: Don Gallo, Whyte Hirschboeck Dudek S.C., via email
Priti Patel, VIDHYA Corp VIII, Inc., via email
D.J. Burns, Drake Consulting Group, LLC, via email
J. Michael McTernan, Alia, DuMez, Dunn & McTernan, S.C., via email
Richard Wehrle, NSEC, via email
Nicholas Bertolas, WDNR, via email
Shanna Laube-Anderson, WDNR, via email

# Figures

Figure 1: Average Daily Flow Rate Graph
Figure 2: Monitoring Well - Sump - UST Locations

## Figure 1: Site Groundwater Pump and Treatment Stystem
## Average Daily Flow Rate - April 2013 - July 2015



State Highway 165 (104th St.)

120th Ave.

Corporate Dr.

approximate property line

approximate property line

San Sewer (appro

Fiber Optic (appro

Electric (approx

Culvert Under Road

Grass

Storm Outlet

MH

MES MW-6

MES MW-3

MW-103

North Sump

Gas Lateral

Culvers Sign

Asphalt / Concrete

Storm CB

UG Elect

LP

Meter

E BOX

E Post

MW-102

Storm Sewer

Concrete

Asphalt

BP Station

CULVERS

Dispensers and Canopy

Landscaping

MES MW-2

Treatment System

Sprinkler

MES MW-5

Diesel UST

Diesel Sump

MW-101

Dumpsters

San Sewer (approx)

MES MW-4

Gasoline USTs

1

2

3

MES MW-1

Gas Sump

## LEGEND

MES MW-1
Midwest (MES) Monitoring Well (EXISTING)

MW-103
Fehr-Graham Monitoring Well - installed 5/19/14

Groundwater Recovery Sump (EXISTING)

20 10 0 20 40

Scale: 1"=40'

TITLE:
Monitoring Well - Sump - UST Locations

BP Gas Station Release, 10477 120th Ave, Pleasant Prairie, WI

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| SCALE: | ATS/FG PROJECT NUMBER: | DATE: | DWG #: |
|---|---|---|---|
| 1" = 40' | VID-2013-02 / 14-1147 | 4/10/14 | Base Map-Vidhya and Culvers.skf |

| REV | DATE | DESCRIPTION: | APPVD | DRAWN BY: | FIGURE |
|---|---|---|---|---|---|
| | | | | MKH | 2 |

# Tables

Table 1: Groundwater Treatment System Monitoring Results
Table 2: Water Level Measurements

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | Spring 2013 | 4/10/2013 | 4/11/2013 | 4/12/2013 | 4/13/2013 | 4/14/2013 | 4/15/2013 | 4/19/2013 | 4/20/2013 | 4/21/2013 | 4/22/2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | | 1 | 1 | | 1 | | 1 | 2 | | 2 | |
| Company | Regulatory Standards | | | | NSEC | NSEC | MES | MES | MES | NSEC | NSEC | MES | MES | MES |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Water from excavation dewatering | Inspection | Inspection | Sample | Sample | Sample | Inspection | Inspection | Sample | Sample | Sample |
| **Flow Meter Reading (gal)** | | | | | 11900 | 22100 | 26,200 | 27,700 | 29,600 | 30240 | 66700 | 69,700 | | |
| **Change (gal)** | | | | 174000 | 11900 | 10200 | 4100 | 1500 | 1900 | 640 | 36460 | 3000 | | |
| **Days Operation** | | | | | | 1 | 1 | 1 | 1 | 1 | 4 | 1 | | |
| **Daily Flow Rate (gal / day)** | | | | | | 10200 | 4100 | 1500 | 1900 | 640 | 9115 | 3000 | | |
| **Total Flow (gal)** | | | | 174000 | 185900 | 196100 | 200200 | 201700 | 203600 | 204240 | 240700 | 243700 | | |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | | | | | | | | | | | |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | | | | | | | | | | | |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | | | | | | | | | | | |
| **Influent** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | <2.7 | <2.7 | <2.7 | | | **1.6 J** | **2.1 J** | **2.4 J** |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | NA | NA | NA | | | NA | NA | NA |
| GRO (ug/L) | NS | NS | | | | | 42,100 | 108,000 | 214,000 | | | NA | NA | NA |
| DRO (mg/L) | NS | NS | | | | | 3,070 | 16,400 | 14,600 | | | 4,280 | 2,320 | 212 |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | <51.2 | <41.0 | <205 | | | **27.9** | <82.0 | <205 |
| n-Butylbenzene | NS | NS | | | | | 230 | <93.0 | <465 | | | <23.2 | 1330 | <465 |
| sec-Butylbenzene | NS | NS | | | | | <111 | <89.0 | <445 | | | <22.2 | <178 | <445 |
| Ethylbenzene | 140 | 700 | | | | | **393** | **361** | **689** | | | **359** | **651** | **646** |
| Isopropylbenzene (Cumene) | NS | NS | | | | | <73.8 | <0.59 | <0.59 | | | <0.59 | <0.59 | <0.34 |
| p-Isopropyltoluene | NS | NS | | | | | <83.8 | <0.67 | <0.67 | | | <0.67 | <0.67 | <0.40 |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <76.2 | <0.61 | <0.61 | | | <0.61 | <0.61 | <0.49 |
| Naphthalene | 10 | 100 | | | | | **1,510** | **2,660** | **6,700** | | | **1,210** | **4,340** | **6,060** |
| n-Propylbenzene | NS | NS | | | | | 195 | 281 | 514 | | | 184 | 654 | 517 |
| Toluene | 160 | 800 | | | | | **2,160** | **2,490** | **4,950** | | | **2,450** | **3,060** | **3,420** |
| Trimethylbenzenes (total) | 96 | 480 | | | | | **8,630** | **16,510** | **34,490** | | | **7,880** | **28,700** | **34,660** |
| Xylenes (total) | 400 | 2000 | | | | | **9,740** | **10,790** | **21,760** | | | **10,830** | **18,980** | **22,740** |
| **PAHs** (ug/L) | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | <19.2 | <19.5 | <19.2 | | | <96.0 | <391 | <96.0 |
| Fluorene | 80 | 400 | | | | | <19.2 | <19.5 | <19.2 | | | <96.0 | <391 | <96.0 |
| 1-Methylnaphthalene | NS | NS | | | | | 1150 | 743 | 1930 | | | 3770 | 19600 | 2030 |
| 2-Methylnaphthalene | NS | NS | | | | | 2340 | 1430 | 3310 | | | 7210 | 37800 | 3950 |
| Napthalene | 10 | 100 | | | | | **1560** | **997** | **2650** | | | **6430** | **35100** | **3810** |
| Phenanthrene | NS | NS | | | | | <19.2 | <19.5 | 19.5 J | | | <96.0 | <391 | <96.0 |
| **Post Zeolite** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | NA | NA | | | NA | NA | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | NA | NA | | | NA | NA | NA |
| n-Butylbenzene | NS | NS | | | | | NA | NA | NA | | | NA | NA | NA |
| sec-Butylbenzene | NS | NS | | | | | NA | NA | NA | | | NA | NA | NA |
| Ethylbenzene | 140 | 700 | | | | | NA | NA | NA | | | NA | NA | NA |
| Isopropylbenzene (Cumene) | NS | NS | | | | | NA | NA | NA | | | NA | NA | NA |
| p-Isopropyltoluene | NS | NS | | | | | NA | NA | NA | | | NA | NA | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | NA | NA | | | NA | NA | NA |
| Naphthalene | 10 | 100 | | | | | NA | NA | NA | | | NA | NA | NA |
| n-Propylbenzene | NS | NS | | | | | NA | NA | NA | | | NA | NA | NA |
| Toluene | 160 | 800 | | | | | NA | NA | NA | | | NA | NA | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | NA | NA | | | NA | NA | NA |
| Xylenes (total) | 400 | 2000 | | | | | NA | NA | NA | | | NA | NA | NA |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | NA | NA | | | NA | NA | NA |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | NA | NA | | | NA | NA | NA |
| Ethylbenzene | 140 | 700 | | | | | NA | NA | NA | | | NA | NA | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | NA | NA | | | NA | NA | NA |
| Naphthalene | 10 | 100 | | | | | NA | NA | NA | | | NA | NA | NA |
| Toluene | 160 | 800 | | | | | NA | NA | NA | | | NA | NA | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | NA | NA | | | NA | NA | NA |
| Xylenes (total) | 400 | 2000 | | | | | NA | NA | NA | | | NA | NA | NA |
| **Effluent** | | | | | | | * | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | <2.7 | <2.7 | <2.7 | | | <1.2 | **2.4 J** | **16.7** |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | NA | NA | NA | | | NA | NA | NA |
| GRO (mg/L) | NS | NS | | | | | <32.4 | <32.4 | <32.4 | | | NA | NA | NA |
| DRO (mg/L) | NS | NS | | | | | <0.01 | <0.01 | <0.01 | | | 0.06 | 0.15 | 1.8 |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | | | <51.2 | <0.41 | <0.41 | | | <0.41 | <0.41 | <0.50 |
| n-Butylbenzene | NS | NS | | | | | 230 | <0.93 | <0.93 | | | <0.93 | <0.93 | 1.5 |
| sec-Butylbenzene | NS | NS | | | | | <111 | <0.89 | <0.89 | | | <0.89 | <0.89 | <0.60 |
| Ethylbenzene | 140 | 700 | | | | | **393** | <0.54 | <0.54 | | | <0.54 | <0.54 | <0.50 |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <76.2 | <0.61 | <0.61 | | | <0.61 | <0.61 | <0.49 |
| Naphthalene | 10 | 100 | 70 | | | | **1,510** | <0.89 | <0.89 | | | <0.89 | <0.89 | <2.5 |
| n-Propylbenzene | NS | NS | | | | | 195 | <0.81 | <0.81 | | | <0.81 | <0.81 | 0.51 J |
| Toluene | 160 | 800 | | | | | **2,160** | <0.67 | <0.67 | | | <0.67 | <0.67 | <0.44 |
| Trimethylbenzenes (total) | 96 | 480 | | | | | **8,630** | <1.8 | <1.8 | | | <1.8 | <1.8 | 18.2 |
| Xylenes (total) | 400 | 2000 | | | | | **9,740** | <2.63 | <2.63 | | | <2.63 | <2.63 | 2.17 J |
| Total BTEX | NS | NS | 750 | | | | **12,293** | 0.00 | 0.00 | | | 0.00 | 0.00 | 2.17 J |
| **PAHs** (ug/L)* | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | <0.0039 | <0.0089 | <0.0038 | | | <0.0039 | <0.0038 | <0.019 |
| Acenaphthylene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| Anthracene | 600 | 3000 | | | | | <0.0049 | <0.011 | <0.0048 | | | <0.0049 | <0.0048 | <0.024 |
| Benzo(a)anthracene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | | | ND | ND | ND | | | ND | ND | ND |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | | | ND | ND | ND | | | ND | ND | ND |
| Benzo(g,h,i)perylene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| Benzo(k)fluoranthene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| Chrysene | 0.02 | 0.2 | | | | | ND | ND | ND | | | ND | ND | ND |
| Dibenz(a,h)anthracene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| Fluoranthene | 80 | 400 | | | | | <0.0053 | <0.012 | <0.0052 | | | <0.0052 | <0.0052 | <0.026 |
| Fluorene | 80 | 400 | | | | | <0.0039 | <0.0089 | <0.0038 | | | <0.0039 | <0.0038 | <0.019 |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | | | ND | ND | ND | | | ND | ND | ND |
| 1-Methylnaphthalene | NS | NS | | | | | 0.0069 | 0.3 | 0.015 | | | 0.027 | 0.010 | 0.91 |
| 2-Methylnaphthalene | NS | NS | | | | | 0.018 J | 0.56 | 0.033 J | | | 0.067 J | 0.023 J | 1.8 |
| Naphthalene | 10 | 100 | 70 | | | | 0.011 J | 0.4 | 0.021 J | | | 0.040 J | 0.026 J | 1.3 |
| Phenanthrene | NS | NS | | | | | 0.0052 J | 0.0092 J | 0.0070 J | | | 0.0084 J | 0.0093 J | 0.026 J |
| Pyrene | 50 | 250 | | | | | <0.0054 | <0.012 | <0.0053 | | | <0.0053 | 0.0062 J | <0.026 |
| Total PAHs' | NS | NS | 0.1 | | | | 0.0411 | **1.2692** | 0.0760 | | | **0.1424** | 0.0745 | **4.036** |
| Total PAHs (not including J's) | NS | NS | 0.1 | | | | 0.0000 | **1.2600** | 0.0000 | | | 0.0000 | 0.0000 | **4.010** |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evivronmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
* : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 4/23/2013 | 4/26/2013 | 4/30/2013 | 5/1/2013 | 5/8/2013 | 5/10/2013 | 5/16/2013 | 5/23/2013 | 5/29/2013 | 5/30/2013 | 6/5/2013 | 6/14/2013 | 6/26/2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 11 |
| Company | Regulatory Standards | | | NSEC | NSEC | NSEC | MES | MES | NSEC | MES | MES | NSEC | MES | NSEC | NSEC | NSEC |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection | Inspection | Inspection | Sample | Sample | Inspection | Sample | Sample | Inspection/Carbon Change-Out | Sample | Inspection | Inspection | Inspection |
| **Flow Meter Reading (gal)** | | | | 72400 | 78700 | 80700 | | 84,200 | 86000 | | | 96,100 | | 101000 | 105300 | 118100 |
| **Change (gal)** | | | | 2700 | 6300 | 2000 | | 3500 | 1800 | | | 10100 | | 4900 | 4300 | 12800 |
| **Days Operation** | | | | 3 | 3 | 4 | | 8 | 2 | | | 19 | | 7 | 9 | 12 |
| **Daily Flow Rate (gal / day)** | | | | 900 | 2100 | 500 | | 438 | 900 | | | 532 | | 700 | 478 | 1067 |
| **Total Flow (gal)** | | | | 246400 | 252700 | 254700 | | 258200 | 260000 | | | 270100 | | 275000 | 279300 | 292100 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | | | | | | | | | | | | | |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | | | | | | | | | 0 | | 4900 | 9200 | 22000 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | | | | | | | | | 0 | | 4900 | 9200 | 22000 |
| **Influent** | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | <1.2 | <2.7 | | <1.2 | <1.2 | | **2.4 J B** | | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | NA | NA | | NA | NA | | NA | | | |
| GRO (ug/L) | NS | NS | | | | | 3,640 | 4,470 | | 10,200 | 3,890 | | 2,570 | | | |
| DRO (mg/L) | NS | NS | | | | | 13.1 | 7 | | 9.5 | 21.5 | | 8.3 | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | **158** | **37.4** | | **17.4 J** | **12.3** | | **5.5** | | | |
| n-Butylbenzene | NS | NS | | | | | <1.6 | <4.0 | | <10 | 18.3 | | 11.1 | | | |
| sec-Butylbenzene | NS | NS | | | | | <2.4 | <6.0 | | <15.1 | <6.0 | | 3.2 J | | | |
| Ethylbenzene | 140 | 700 | | | | | 26.6 | 22.6 | | 36.1 | 20.4 | | 12.9 | | | |
| Isopropylbenzene (Cumene) | NS | NS | | | | | <0.34 | <0.34 | | <0.34 | <0.34 | | <0.34 | | | |
| p-Isopropyltoluene | NS | NS | | | | | <0.40 | <0.40 | | <0.40 | <0.40 | | <0.40 | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <0.49 | <0.49 | | <0.49 | <0.49 | | <0.49 | | | |
| Naphthalene | 10 | 100 | | | | | **84.2** | **105** | | **137** | **82.3** | | **20.1 J** | | | |
| n-Propylbenzene | NS | NS | | | | | 21 | 22.6 | | 21.1 J | 21.5 | | 24.5 | | | |
| Toluene | 160 | 800 | | | | | 65.8 | 127 | | **399** | 111 | | 17.7 | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | **738** | **1,245** | | **1,603** | **1,111** | | **368** | | | |
| Xylenes (total) | 400 | 2000 | | | | | **456** | **1,071** | | **2,039** | **822** | | 139 | | | |
| **PAHs** (ug/L) | | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | <0.96 | <1.9 | | <3.8 | 0.78 J | | 0.77 J | | | |
| Fluorene | 80 | 400 | | | | | <0.96 | <1.9 | | <3.8 | <0.77 | | 0.74 J | | | |
| 1-Methylnaphthalene | NS | NS | | | | | 30.8 | 46.6 | | 55.8 | 37.4 | | 34.8 | | | |
| 2-Methylnaphthalene | NS | NS | | | | | 48.3 | 42.6 | | 61.9 | 23.4 | | 8.6 | | | |
| Napthalene | 10 | 100 | | | | | **50.3** | **65.9** | | **124** | **39** | | **20.8** | | | |
| Phenanthrene | NS | NS | | | | | <0.96 | <1.9 | | <3.8 | <0.77 | | 0.94 J | | | |
| **Post Zeolite** | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | NA | | NA | NA | | NA | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | NA | | NA | NA | | NA | | | |
| n-Butylbenzene | NS | NS | | | | | NA | NA | | NA | NA | | NA | | | |
| sec-Butylbenzene | NS | NS | | | | | NA | NA | | NA | NA | | NA | | | |
| Ethylbenzene | 140 | 700 | | | | | NA | NA | | NA | NA | | NA | | | |
| Isopropylbenzene (Cumene) | NS | NS | | | | | NA | NA | | NA | NA | | NA | | | |
| p-Isopropyltoluene | NS | NS | | | | | NA | NA | | NA | NA | | NA | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | NA | | NA | NA | | NA | | | |
| Naphthalene | 10 | 100 | | | | | NA | NA | | NA | NA | | NA | | | |
| n-Propylbenzene | NS | NS | | | | | NA | NA | | NA | NA | | NA | | | |
| Toluene | 160 | 800 | | | | | NA | NA | | NA | NA | | NA | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | NA | | NA | NA | | NA | | | |
| Xylenes (total) | 400 | 2000 | | | | | NA | NA | | NA | NA | | NA | | | |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | NA | | NA | NA | | NA | | | |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | NA | | NA | NA | | NA | | | |
| Ethylbenzene | 140 | 700 | | | | | NA | NA | | NA | NA | | NA | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | NA | | NA | NA | | NA | | | |
| Naphthalene | 10 | 100 | | | | | NA | NA | | NA | NA | | NA | | | |
| Toluene | 160 | 800 | | | | | NA | NA | | NA | NA | | NA | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | NA | | NA | NA | | NA | | | |
| Xylenes (total) | 400 | 2000 | | | | | NA | NA | | NA | NA | | NA | | | |
| **Effluent** | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | **7.7** | **3.3 J** | | **5.8 J** | **11.8 B** | | **8.4 B** | | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | NA | NA | | NA | NA | | NA | | | |
| GRO (mg/L) | NS | NS | | | | | <32.4 | <32.4 | | <34.9 | <34.9 | | 0.022 J | | | |
| DRO (mg/L) | NS | NS | | | | | 0.1 | 0.044 J | | <0.019 | 0.031 J | | 0.031 J | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | | | <0.50 | <0.50 | | <0.50 | <0.50 | | <0.50 | | | |
| n-Butylbenzene | NS | NS | | | | | <0.40 | <0.40 | | <0.40 | <0.40 | | <0.40 | | | |
| sec-Butylbenzene | NS | NS | | | | | <0.60 | <0.60 | | <0.60 | <0.60 | | <0.60 | | | |
| Ethylbenzene | 140 | 700 | | | | | <0.50 | <0.50 | | <0.50 | <0.50 | | <0.50 | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <0.49 | <0.49 | | <0.49 | <0.49 | | <0.49 | | | |
| Naphthalene | 10 | 100 | 70 | | | | <2.5 | <2.5 | | <2.5 | <2.5 | | <2.5 | | | |
| n-Propylbenzene | NS | NS | | | | | <0.50 | <0.50 | | <0.50 | <0.50 | | <0.50 | | | |
| Toluene | 160 | 800 | | | | | <0.44 | <0.44 | | <0.44 | <0.44 | | <0.44 | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | <3.08 | <3.07 | | <3.07 | <3.07 | | <3.07 | | | |
| Xylenes (total) | 400 | 2000 | | | | | <1.32 | <1.32 | | <1.32 | <1.32 | | <1.32 | | | |
| Total BTEX | NS | NS | 750 | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | | |
| **PAHs** (ug/L)* | | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | <0.0038 | <0.0038 | | <0.0038 | <0.0038 | | <0.0038 | | | |
| Acenaphthylene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| Anthracene | 600 | 3000 | | | | | <0.0048 | <0.0048 | | <0.0048 | 0.0086 | | <0.0048 | | | |
| Benzo(a)anthracene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | | | ND | ND | | ND | ND | | ND | | | |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | | | ND | ND | | ND | ND | | ND | | | |
| Benzo(g,h,i)perylene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| Benzo(k)fluoranthene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| Chrysene | 0.02 | 0.2 | | | | | ND | ND | | ND | ND | | ND | | | |
| Dibenz(a,h)anthracene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| Fluoranthene | 80 | 400 | | | | | <0.0052 | <0.0052 | | <0.0052 | <0.0052 | | <0.0052 | | | |
| Fluorene | 80 | 400 | | | | | <0.0038 | <0.0038 | | <0.0038 | <0.0038 | | <0.0038 | | | |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | | | ND | ND | | ND | ND | | ND | | | |
| 1-Methylnaphthalene | NS | NS | | | | | 0.0058 | <0.0036 | | 0.0072 | <0.0036 | | 0.0088 | | | |
| 2-Methylnaphthalene | NS | NS | | | | | 0.012 J | <0.0061 | | 0.0086 J | <0.0061 | | 0.0067 J | | | |
| Naphthalene | 10 | 100 | 70 | | | | 0.011 J | <0.0033 | | 0.017 J | <0.0033 | | 0.0082 J | | | |
| Phenanthrene | NS | NS | | | | | 0.006 J | 0.0047 J | | <0.0038 | <0.0038 | | <0.0038 | | | |
| Pyrene | 50 | 250 | | | | | <0.0053 | <0.0053 | | <0.0053 | <0.0053 | | <0.0053 | | | |
| Total PAHs' | NS | NS | 0.1 | | | | 0.0348 | 0.0047 | | 0.0328 | 0.0086 | | 0.0237 | | | |
| Total PAHs (not including J's) | NS | NS | 0.1 | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evivronmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
^ : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
* : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 6/28/2013 | 7/1/2013 | 7/2/2013 | 7/11/2013 | 7/18/2013 | 7/23/2013 | 7/25/2013 | 8/16/2013 | 8/27/2013 | 9/13/2013 | 9/19/2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 11 | 12 | 12 | 13 | 14 | 14 | 14 | 17 | 20 | 21 | 22 |
| Company | Regulatory Standards | | | NSEC / MES | NSEC | MES | ATS | ATS | NSEC | ATS | NSEC | ATS | NSEC | NSEC |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection / Sample | Inspection | Sample | Sample | Sample | Inspection | Sample | Inspection | Sample | Inspection | Inspection |
| **Flow Meter Reading (gal)** | | | | 120100 | 121750 | | 125168 | 126429 | 130400 | 131000 | 140200 | 142100 | 144000 | 150700 |
| **Change (gal)** | | | | 2000 | 1650 | | 3418 | 1261 | 3971 | 600 | 9200 | 1900 | 1900 | 6700 |
| **Days Operation** | | | | 2 | 3 | | 10 | 7 | 5 | 2 | 22 | 11 | 17 | 6 |
| **Daily Flow Rate (gal / day)** | | | | 1000 | 550 | | 342 | 180 | 794 | 300 | 418 | 173 | 112 | 1117 |
| **Total Flow (gal)** | | | | 294100 | 295750 | | 299168 | 300429 | 304400 | 305000 | 314200 | 316100 | 318000 | 324700 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | | | | | | | | | | | |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 24000 | 25650 | 25650 | 29068 | 30329 | 34300 | 34900 | 44100 | 46000 | 47900 | 54600 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 24000 | 25650 | 25650 | 29068 | 30329 | 34300 | 34900 | 44100 | 46000 | 47900 | 54600 |
| **Influent** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | <1.2 | | NA | **3.4 J B** | <1.2 | | <1.2 | | **2.3J** | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | NA | | NA | NA | NA | | NA | | NA | | |
| GRO (ug/L) | NS | NS | | 2410 | | NA | 4780 | NA | | NA | | NA | | |
| DRO (mg/L) | NS | NS | | 2.8 | | NA | 1.0 | NA | | NA | | NA | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | **11.2** | | NA | **11.4** | **10.3** | | **3.4** | | **0.80J** | | |
| n-Butylbenzene | NS | NS | | <1.0 | | NA | <2.0 | <4.0 | | NA | | NA | | |
| sec-Butylbenzene | NS | NS | | <1.5 | | NA | <3.0 | <6.0 | | NA | | NA | | |
| Ethylbenzene | 140 | 700 | | 8.6 | | NA | 10.2 | 16.3 | | 4.6 | | 0.38J | | |
| Isopropylbenzene (Cumene) | NS | NS | | 1.9J | | NA | 16.1 | 4.7J | | NA | | NA | | |
| p-Isopropyltoluene | NS | NS | | 1.1J | | NA | 2.6J | 12.9 | | NA | | NA | | |
| Methyl-tert-butyl ether | 12 | 60 | | <1.2 | | NA | <2.5 | <4.9 | | 1.9 | | 0.71J | | |
| Naphthalene | 10 | 100 | | **25.1** | | NA | **54.5** | **91.2** | | **13.4** | | 6.3 | | |
| n-Propylbenzene | NS | NS | | 1.8 J | | NA | 6.5 | 9.1J | | NA | | NA | | |
| Toluene | 160 | 800 | | 150 | | NA | 112 | **164** | | 3.9 | | 0.76J | | |
| Trimethylbenzenes (total) | 96 | 480 | | **410** | | NA | **921** | **1,312** | | **149.9** | | 33.7 | | |
| Xylenes (total) | 400 | 2000 | | **706** | | NA | **884** | **1,393** | | 62.4 | | 24.9 | | |
| **PAHs** (ug/L) | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | NA | | 0.52 J | 0.47 J | NA | | NA | | NA | | |
| Fluorene | 80 | 400 | | NA | | 0.35 J | 0.46 J | NA | | NA | | NA | | |
| 1-Methylnaphthalene | NS | NS | | NA | | 13.7 | 25.8 | NA | | NA | | NA | | |
| 2-Methylnaphthalene | NS | NS | | NA | | 1.8 J | 12.6 | NA | | NA | | NA | | |
| Napthalene | 10 | 100 | | NA | | 6.5 | **24.0** | NA | | NA | | NA | | |
| Phenanthrene | NS | NS | | NA | | <0.19 | 0.65 J | NA | | NA | | NA | | |
| **Post Zeolite** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | NA | | NA | **2.8 J B** | **1.6J** | | <1.2 | | NA | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | NA | | NA | <25.0 | <50.0 | | <13.4 | | NA | | |
| n-Butylbenzene | NS | NS | | NA | | NA | 84.7 | 276 | | NA | | NA | | |
| sec-Butylbenzene | NS | NS | | NA | | NA | <30.2 | <60.5 | | NA | | NA | | |
| Ethylbenzene | 140 | 700 | | NA | | NA | **275** | **192** | | **182** | | NA | | |
| Isopropylbenzene (Cumene) | NS | NS | | NA | | NA | 178 | 62.0J | | NA | | NA | | |
| p-Isopropyltoluene | NS | NS | | NA | | NA | <19.9 | 79.1J | | NA | | NA | | |
| Methyl-tert-butyl ether | 12 | 60 | | NA | | NA | <24.7 | <49.4 | | <14.8 | | NA | | |
| Naphthalene | 10 | 100 | | NA | | NA | **858** | **1,570** | | **833** | | NA | | |
| n-Propylbenzene | NS | NS | | NA | | NA | 115 | 184 | | NA | | NA | | |
| Toluene | 160 | 800 | | NA | | NA | **537** | **236** | | **172** | | NA | | |
| Trimethylbenzenes (total) | 96 | 480 | | NA | | NA | **6550** | **9,840** | | **5,550** | | NA | | |
| Xylenes (total) | 400 | 2000 | | NA | | NA | **9690** | **7,470** | | **6,340** | | NA | | |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | NA | | NA | NA | NA | | NA | | **2.0J** | | |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | NA | | NA | NA | NA | | **3.8** | | **3.1** | | |
| Ethylbenzene | 140 | 700 | | NA | | NA | NA | NA | | 1.7 | | 1.5 | | |
| Methyl-tert-butyl ether | 12 | 60 | | NA | | NA | NA | NA | | <0.37 | | <0.37 | | |
| Naphthalene | 10 | 100 | | NA | | NA | NA | NA | | 1.0 | | 1.0 | | |
| Toluene | 160 | 800 | | NA | | NA | NA | NA | | 1.4 | | 1.2 | | |
| Trimethylbenzenes (total) | 96 | 480 | | NA | | NA | NA | NA | | 14.9 | | 5.5 | | |
| Xylenes (total) | 400 | 2000 | | NA | | NA | NA | NA | | 29.1 | | 21.1 | | |
| **Effluent** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | **2.6 J** | | NA | **4.4 J B** | <1.2 | | 1.2J | | **2.7J** | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | NA | | NA | NA | NA | | NA | | NA | | |
| GRO (mg/L) | NS | NS | | <34.9 | | NA | <34.9 | NA | | NA | | NA | | |
| DRO (mg/L) | NS | NS | | <0.020 | | NA | 0.046 J | NA | | NA | | NA | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | <0.50 | | NA | <0.50 | <0.50 | | <0.34 | | <0.34 | | |
| n-Butylbenzene | NS | NS | | <0.40 | | NA | <0.40 | <0.40 | | NA | | NA | | |
| sec-Butylbenzene | NS | NS | | <0.60 | | NA | <0.60 | <0.60 | | NA | | NA | | |
| Ethylbenzene | 140 | 700 | | <0.50 | | NA | <0.50 | <0.50 | | <0.34 | | <0.34 | | |
| Methyl-tert-butyl ether | 12 | 60 | | <0.49 | | NA | <0.49 | <0.49 | | <0.37 | | <0.37 | | |
| Naphthalene | 10 | 100 | 70 | <2.5 | | NA | <2.5 | <2.5 | | <0.37 | | <0.37 | | |
| n-Propylbenzene | NS | NS | | <0.50 | | NA | <0.50 | <0.50 | | NA | | NA | | |
| Toluene | 160 | 800 | | <0.44 | | NA | <0.44 | <0.44 | | <0.34 | | <0.34 | | |
| Trimethylbenzenes (total) | 96 | 480 | | <3.07 | | NA | <3.07 | <3.07 | | <0.69 | | <0.69 | | |
| Xylenes (total) | 400 | 2000 | | <1.32 | | NA | <1.32 | <1.32 | | <1.03 | | <1.03 | | |
| Total BTEX | NS | NS | 750 | 0.00 | | NA | 0.00 | 0.00 | | 0.00 | | 0.00 | | |
| **PAHs** (ug/L)* | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | NA | | <0.0038 | <0.0043 | NA | | NA | | NA | | |
| Acenaphthylene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| Anthracene | 600 | 3000 | | NA | | <0.0048 | <0.0054 | NA | | NA | | NA | | |
| Benzo(a)anthracene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | NA | | ND | ND | NA | | NA | | NA | | |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | NA | | ND | ND | NA | | NA | | NA | | |
| Benzo(g,h,i)perylene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| Benzo(k)fluoranthene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| Chrysene | 0.02 | 0.2 | | NA | | ND | ND | NA | | NA | | NA | | |
| Dibenz(a,h)anthracene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| Fluoranthene | 80 | 400 | | NA | | 0.0069 | <0.0058 | NA | | NA | | NA | | |
| Fluorene | 80 | 400 | | NA | | <0.0038 | 0.0063 | NA | | NA | | NA | | |
| Indeno(1,2,3-cd)pyrene | NS | NS | | NA | | ND | ND | NA | | NA | | NA | | |
| 1-Methylnaphthalene | NS | NS | | NA | | 0.016 | 0.0091 | NA | | NA | | NA | | |
| 2-Methylnaphthalene | NS | NS | | NA | | 0.024 J | 0.0087 J | NA | | NA | | NA | | |
| Naphthalene | 10 | 100 | 70 | NA | | 0.026 J | <0.0037 | NA | | NA | | NA | | |
| Phenanthrene | NS | NS | | NA | | 0.01 J B | 0.019 J | NA | | NA | | NA | | |
| Pyrene | 50 | 250 | | NA | | 0.0076 | <0.0059 | NA | | NA | | NA | | |
| Total PAHs' | NS | NS | 0.1 | NA | | 0.091 J | 0.0431 | NA | | NA | | NA | | |
| Total PAHs (not including J's) | NS | NS | 0.1 | NA | | 0.0076 | 0.0063 | NA | | NA | | NA | | |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evironmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
^: Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
* : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 9/26/2013 | 10/1/2013 | 10/16/2013 | 10/29/2013 | 11/6/2013 | 11/12/2013 | 11/26/2013 | 12/1/2013 | 12/12/2013 | 12/26/2013 | 1/7/2014 | 1/8/2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 23 | 24 | 26 | 28 | 29 | 30 | 32 | 33 | 34 | 36 | 38 | 38 |
| Company | Regulatory Standards | | | ATS | NSEC | NSEC | ATS | NSEC | NSEC | ATS | NSEC | NSEC | ATS | NSEC | FG |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Sample | Inspection/ Zeolite Vessel Change-Out | Inspection | Sample | Inspection | Inspection | Sample | Inspection | Inspection | Sample | Inspection | Sample |
| **Flow Meter Reading (gal)** | | | | 153400 | 154900 | 163500 | 167200 | 177100 | 184000 | 193667 | 194000 | 196200 | 200400 | 205700 | 205700 |
| **Change (gal)** | | | | 2700 | 1500 | 8600 | 3700 | 9900 | 6900 | 9667 | 333 | 2200 | 4200 | 5300 | 0 |
| **Days Operation** | | | | 7 | 5 | 15 | 13 | 8 | 6 | 14 | 5 | 11 | 14 | 12 | 1 |
| **Daily Flow Rate (gal / day)** | | | | 386 | 300 | 573 | 285 | 1238 | 1150 | 691 | 67 | 200 | 300 | 442 | 0 |
| **Total Flow (gal)** | | | | 327400 | 328900 | 337500 | 341200 | 351100 | 358000 | 367667 | 368000 | 370200 | 374400 | 379700 | 379700 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | | 0 | 8600 | 12300 | 22200 | 29100 | 38767 | 39100 | 41300 | 45500 | 50800 | 50800 |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 57300 | 58800 | 67400 | 71100 | 81000 | 87900 | 97567 | 97900 | 100100 | 104300 | 109600 | 109600 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 57300 | 58800 | 67400 | 71100 | 81000 | 87900 | 97567 | 97900 | 100100 | 104300 | 109600 | 109600 |
| **Influent** | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | <1.2 | | | **2.3J** | | | <1.2 | | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | NA | | | NA | | | NA | | | <2.7 | | <2.7 |
| GRO (ug/L) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| DRO (mg/L) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | **14.5** | | | **6.1** | | | **2.7** | | | 6.6 | | **2.4** |
| n-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | 2.2 | | | 5.2 | | | 1.2 | | | 1.0 | | 3.3 |
| Isopropylbenzene (Cumene) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | 0.80J | | | 0.45J | | | 0.67J | | | 0.81J | | 0.52J |
| Naphthalene | 10 | 100 | | 7.3 | | | **47.5** | | | 5.2 | | | 1.3 | | **11.1** |
| n-Propylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | 2.4 | | | 6.9 | | | 0.48J | | | <0.34 | | 8.2 |
| Trimethylbenzenes (total) | 96 | 480 | | 76 | | | **319** | | | 35.9 | | | 14.9 | | 64.8 |
| Xylenes (total) | 400 | 2000 | | 36.7 | | | 230 | | | 11 | | | 1.6J | | 65 |
| **PAHs** (ug/L) | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Fluorene | 80 | 400 | | NA | | | NA | | | NA | | | NA | | NA |
| 1-Methylnaphthalene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| 2-Methylnaphthalene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Napthalene | 10 | 100 | | NA | | | NA | | | NA | | | NA | | NA |
| Phenanthrene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| **Post Zeolite** | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | NA | | | **3.9J** | | | <1.2 | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | NA | | | **2.1J** | | | **0.58J** | | | NA | | NA |
| n-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | NA | | | 15.7 | | | 6.7 | | | NA | | NA |
| Isopropylbenzene (Cumene) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | NA | | | <1.9 | | | 0.58J | | | NA | | NA |
| Naphthalene | 10 | 100 | | NA | | | **102** | | | **25.5** | | | NA | | NA |
| n-Propylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | NA | | | 3.1J | | | 0.81J | | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | NA | | | **1065** | | | **329** | | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | NA | | | **430** | | | 145.8 | | | NA | | NA |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | <1.2 | | | <1.2 | | | <1.2 | | | NA | | NA |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | **2.3** | | | **2.1** | | | **1.8** | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | 1.4 | | | 1.2 | | | 0.95J | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | <0.37 | | | <0.37 | | | <0.37 | | | NA | | NA |
| Naphthalene | 10 | 100 | | 0.73J | | | 0.45J | | | 0.41J | | | NA | | NA |
| Toluene | 160 | 800 | | 1.3 | | | 1.0 | | | 0.71J | | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | 4.8 | | | 3.7 | | | 2.68J | | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | 17.5 | | | 13.9 | | | 7.8 | | | NA | | NA |
| **Effluent** | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | **1.9J** | | | <1.2 | | | <1.2 | | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | NA | | | NA | | | NA | | | 4.0J | | <2.7 |
| GRO (mg/L) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| DRO (mg/L) | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | <0.34 | | | <0.34 | | | 0.34J | | | <0.34 | | 0.46J |
| n-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | <0.34 | | | <0.34 | | | <0.34 | | | <0.34 | | <0.34 |
| Methyl-tert-butyl ether | 12 | 60 | | <0.37 | | | <0.37 | | | <0.37 | | | <0.37 | | <0.37 |
| Naphthalene | 10 | 100 | 70 | <0.37 | | | <0.37 | | | <0.37 | | | <0.37 | | <0.37 |
| n-Propylbenzene | NS | NS | | NA | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | <0.34 | | | <0.34 | | | <0.34 | | | <0.34 | | <0.34 |
| Trimethylbenzenes (total) | 96 | 480 | | <0.69 | | | <0.69 | | | <0.69 | | | <0.69 | | <0.69 |
| Xylenes (total) | 400 | 2000 | | <1.03 | | | <1.03 | | | <1.03 | | | <1.03 | | <1.03 |
| Total BTEX | NS | NS | 750 | 0.00 | | | 0.00 | | | 0.34J | | | 0.00 | | 0.46J |
| **PAHs** (ug/L)" | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | <0.0058 | | | <0.0058 | | | <0.0057 | | | <0.0060 | | <0.0063 |
| Acenaphthylene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| Anthracene | 600 | 3000 | | <0.0056 | | | <0.0056 | | | <0.0055 | | | <0.0058 | | <0.0061 |
| Benzo(a)anthracene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | ND | | | ND | | | ND | | | ND | | ND |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | ND | | | ND | | | ND | | | ND | | ND |
| Benzo(g,h,i)perylene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| Benzo(k)fluoranthene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| Chrysene | 0.02 | 0.2 | | ND | | | ND | | | ND | | | ND | | ND |
| Dibenz(a,h)anthracene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| Fluoranthene | 80 | 400 | | <0.0052 | | | <0.0053 | | | 0.0055 | | | 0.0068 | | <0.0057 |
| Fluorene | 80 | 400 | | <0.0065 | | | <0.0065 | | | <0.0064 | | | <0.0067 | | <0.0071 |
| Indeno(1,2,3-cd)pyrene | NS | NS | | ND | | | ND | | | ND | | | ND | | ND |
| 1-Methylnaphthalene | NS | NS | | 0.0086 | | | <0.0064 | | | <0.0062 | | | <0.0065 | | <0.0069 |
| 2-Methylnaphthalene | NS | NS | | 0.0062J | | | <0.0062 | | | <0.0061 | | | <0.0064 | | <0.0067 |
| Naphthalene | 10 | 100 | 70 | 0.0081J | | | 0.0053J | | | 0.0061J | | | <0.0048 | | <0.0050 |
| Phenanthrene | NS | NS | | 0.0089J | | | 0.0077J | | | 0.0051J | | | 0.024 J | | 0.0066J |
| Pyrene | 50 | 250 | | <0.0053 | | | <0.0054 | | | 0.0082J | | | <0.0055 | | <0.0058 |
| Total PAHs' | NS | NS | 0.1 | 0.0318 | | | 0.0130 | | | 0.0249 | | | 0.0308 | | 0.0066 |
| Total PAHs (not including J's) | NS | NS | 0.1 | 0.0000 | | | 0.0000 | | | 0.0000 | | | 0.0000 | | 0.0000 |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evivronmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
* : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 1/20/2014 | 1/30/2014 | 2/10/2014 | 2/21/2014 | 3/10/2014 | 3/20/2014 | 3/27/2014 | 4/7/2014 | 4/21/2014 | 4/22/2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 40 | 41 | 43 | 44 | 47 | 48 | 49 | 51 | 53 | 53 |
| Company | Regulatory Standards | | | NSEC | NSEC | NSEC | NSEC/FG | NSEC | NSEC | NSEC/FG | NSEC | FG | NSEC |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection | Inspection | Inspection | Inspection/ Sample | Inspection | Inspection | Inspection/ Sample | Inspection | Sample | Inspection |
| **Flow Meter Reading (gal)** | | | | 215800 | 216100 | 216400 | 229400 | 239000 | 261000 | 268441 | 281700 | NS | 300000 |
| **Change (gal)** | | | | 10100 | 300 | 300 | 13000 | 9600 | 22000 | 7441 | 13259 | NA | 18300 |
| **Days Operation** | | | | 12 | 10 | 11 | 11 | 17 | 10 | 7 | 11 | 14 | 15 |
| **Daily Flow Rate (gal / day)** | | | | 842 | 30 | 27 | 1182 | 565 | 2200 | 1063 | 1205 | NA | 1220 |
| **Total Flow (gal)** | | | | 389800 | 390100 | 390400 | 403400 | 413000 | 435000 | 442441 | 455700 | NA | 474000 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | 60900 | 61200 | 61500 | 74500 | 84100 | 106100 | 113541 | 126800 | NA | 145100 |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 119700 | 120000 | 120300 | 133300 | 142900 | 164900 | 172341 | 185600 | NA | 203900 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 119700 | 120000 | 120300 | 133300 | 142900 | 164900 | 172341 | 185600 | NA | 203900 |
| **Influent** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | | | NA | | NA | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | <2.7 | | | <2.7 | | <1.6 | |
| GRO (ug/L) | NS | NS | | | | | NA | | | NA | | NA | |
| DRO (mg/L) | NS | NS | | | | | NA | | | NA | | NA | |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | **18.3** | | | **2** | | **3.3** | |
| n-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| sec-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Ethylbenzene | 140 | 700 | | | | | 20.7 | | | 1.1 | | 1.1 | |
| Isopropylbenzene (Cumene) | NS | NS | | | | | NA | | | NA | | NA | |
| p-Isopropyltoluene | NS | NS | | | | | NA | | | NA | | NA | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <2.4 | | | 0.75J | | 0.92J | |
| Naphthalene | 10 | 100 | | | | | **69.2** | | | 3.2 | | 4.0 | |
| n-Propylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Toluene | 160 | 800 | | | | | 17.9 | | | <0.39 | | <0.39 | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | **1026** | | | 29.6 | | 40.9 | |
| Xylenes (total) | 400 | 2000 | | | | | 315.3 | | | 8.9 | | 10.9 | |
| **PAHs** (ug/L) | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | NA | | | NA | | NA | |
| Fluorene | 80 | 400 | | | | | NA | | | NA | | NA | |
| 1-Methylnaphthalene | NS | NS | | | | | NA | | | NA | | NA | |
| 2-Methylnaphthalene | NS | NS | | | | | NA | | | NA | | NA | |
| Napthalene | 10 | 100 | | | | | NA | | | NA | | NA | |
| Phenanthrene | NS | NS | | | | | NA | | | NA | | NA | |
| **Post Zeolite** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | | | NA | | NA | |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | | | NA | | NA | |
| n-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| sec-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Ethylbenzene | 140 | 700 | | | | | NA | | | NA | | NA | |
| Isopropylbenzene (Cumene) | NS | NS | | | | | NA | | | NA | | NA | |
| p-Isopropyltoluene | NS | NS | | | | | NA | | | NA | | NA | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | | | NA | | NA | |
| Naphthalene | 10 | 100 | | | | | NA | | | NA | | NA | |
| n-Propylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Toluene | 160 | 800 | | | | | NA | | | NA | | NA | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | | | NA | | NA | |
| Xylenes (total) | 400 | 2000 | | | | | NA | | | NA | | NA | |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | | | NA | | NA | |
| **PVOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | | NA | | | NA | | NA | |
| Ethylbenzene | 140 | 700 | | | | | NA | | | NA | | NA | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | NA | | | NA | | NA | |
| Naphthalene | 10 | 100 | | | | | NA | | | NA | | NA | |
| Toluene | 160 | 800 | | | | | NA | | | NA | | NA | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | NA | | | NA | | NA | |
| Xylenes (total) | 400 | 2000 | | | | | NA | | | NA | | NA | |
| **Effluent** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | | NA | | | NA | | NA | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | | <2.7 | | | <2.7 | | <1.6 | |
| GRO (mg/L) | NS | NS | | | | | NA | | | NA | | NA | |
| DRO (mg/L) | NS | NS | | | | | NA | | | NA | | NA | |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | | | <0.40 | | | 0.40J | | <0.40 | |
| n-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| sec-Butylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Ethylbenzene | 140 | 700 | | | | | <0.39 | | | <0.39 | | <0.39 | |
| Methyl-tert-butyl ether | 12 | 60 | | | | | <0.48 | | | <0.48 | | <0.48 | |
| Naphthalene | 10 | 100 | 70 | | | | <0.42 | | | <0.42 | | <0.42 | |
| n-Propylbenzene | NS | NS | | | | | NA | | | NA | | NA | |
| Toluene | 160 | 800 | | | | | <0.39 | | | <0.39 | | <0.39 | |
| Trimethylbenzenes (total) | 96 | 480 | | | | | <0.84 | | | <0.84 | | <0.84 | |
| Xylenes (total) | 400 | 2000 | | | | | <1.25 | | | <1.25 | | <1.25 | |
| Total BTEX | NS | NS | 750 | | | | 0.00 | | | 0.40J | | 0.00 | |
| **PAHs** (ug/L)' | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | | <0.0051 | | | <0.0051 | | <0.0056 | |
| Acenaphthylene | NS | NS | | | | | ND | | | ND | | ND | |
| Anthracene | 600 | 3000 | | | | | <0.0052 | | | <0.0052 | | <0.0057 | |
| Benzo(a)anthracene | NS | NS | | | | | ND | | | ND | | ND | |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | | | ND | | | ND | | ND | |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | | | ND | | | ND | | ND | |
| Benzo(g,h,i)perylene | NS | NS | | | | | ND | | | ND | | ND | |
| Benzo(k)fluoranthene | NS | NS | | | | | ND | | | ND | | ND | |
| Chrysene | 0.02 | 0.2 | | | | | ND | | | ND | | ND | |
| Dibenz(a,h)anthracene | NS | NS | | | | | ND | | | ND | | ND | |
| Fluoranthene | 80 | 400 | | | | | 0.0047J | | | <0.0034 | | 0.0057 | |
| Fluorene | 80 | 400 | | | | | <0.0052 | | | <0.0052 | | <0.0057 | |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | | | ND | | | ND | | ND | |
| 1-Methylnaphthalene | NS | NS | | | | | 0.0064J | | | <0.0048 | | <0.0053 | |
| 2-Methylnaphthalene | NS | NS | | | | | 0.0071J | | | <0.0057 | | <0.0063 | |
| Naphthalene | 10 | 100 | 70 | | | | <0.0095 | | | <0.0094 | | <0.010 | |
| Phenanthrene | NS | NS | | | | | 0.0092J | | | <0.0046 | | 0.0074J | |
| Pyrene | 50 | 250 | | | | | 0.0066J | | | <0.0038 | | 0.0046J | |
| Total PAHs' | NS | NS | 0.1 | | | | 0.034 J | | | 0.0000 | | 0.0177 J | |
| Total PAHs (not including J's) | NS | NS | 0.1 | | | | 0.0000 | | | 0.0000 | | 0.0000 | |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evironmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
* : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 5/6/2014 | 5/14/2014 | 5/28/2014 | 5/29/2014 | 6/11/2014 | 6/23/2014 | 7/13/2014 | 7/23/2014 | 7/29/2014 | 8/21/2014 | 8/29/2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 55 | 56 | 57 | 57 | 59 | 61 | 64 | 65 | 66 | 69 | 70 |
| Company | Regulatory Standards | | | NSEC | NSEC | FG | NSEC | NSEC | FG | NSEC | NSEC | FG | NSEC | FG |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection | Inspection | Sample | Inspection | Inspection | Sample | Inspection | Inspection | Sample | Inspection | Sample |
| **Flow Meter Reading (gal)** | | | | 314400 | 327700 | 340750 | 344400 | 374400 | 382800 | 399700 | 404400 | 405500 | 412200 | 421500 |
| **Change (gal)** | | | | 14400 | 13300 | 13050 | 3650 | 30000 | 8400 | 16900 | 4700 | 1100 | 6700 | 9300 |
| **Days Operation** | | | | 14 | 8 | 14 | 1 | 13 | 12 | 20 | 10 | 6 | 23 | 8 |
| **Daily Flow Rate (gal / day)** | | | | 1029 | 1663 | 932 | 3650 | 2308 | 700 | 845 | 470 | 183 | 291 | 1163 |
| **Total Flow (gal)** | | | | 488400 | 501700 | 514750 | 518400 | 548400 | 556800 | 573700 | 578400 | 579500 | 586200 | 595500 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | 159500 | 158400 | NA | 162050 | 192050 | 200450 | 217350 | 222050 | 223150 | 229850 | 239150 |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 218300 | 217200 | NA | 220850 | 250850 | 259250 | 276150 | 280850 | 281950 | 288650 | 297950 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 218300 | 217200 | NA | 220850 | 250850 | 259250 | 276150 | 280850 | 281950 | 288650 | 297950 |
| **Influent** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | <1.6 | | | <1.6 | | | 1.8J | | <1.6 |
| GRO (ug/L) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| DRO (mg/L) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | **3.4J** | | | 0.42J | | | 0.45J | | **2.1** |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | 14.5 | | | 0.83J | | | 0.70J | | 6.3 |
| Isopropylbenzene (Cumene) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | <2.4 | | | <0.48 | | | <0.48 | | <0.48 |
| Napthalene | 10 | 100 | | | | **57.0** | | | 3.4 | | | 1.0 | | 8.2 |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | | | <1.9 | | | <0.39 | | | <0.39 | | <0.39 |
| Trimethylbenzenes (total) | 96 | 480 | | | | 736 | | | 34.7 | | | 14.33J | | **164** |
| Xylenes (total) | 400 | 2000 | | | | 159.4 | | | 6.2 | | | 0.77J | | 11.5 |
| **PAHs** (ug/L) | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Fluorene | 80 | 400 | | | | NA | | | NA | | | NA | | NA |
| 1-Methylnaphthalene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| 2-Methylnaphthalene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Napthalene | 10 | 100 | | | | NA | | | NA | | | NA | | NA |
| Phenanthrene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| **Post Zeolite** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | NA | | | NA | | | NA | | NA |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | NA | | | NA | | | NA | | NA |
| Isopropylbenzene (Cumene) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | NA | | | NA | | | NA | | NA |
| Naphthalene | 10 | 100 | | | | NA | | | NA | | | NA | | NA |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | | | NA | | | NA | | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | NA | | | NA | | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | | | NA | | | NA | | | NA | | NA |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | | NA | | NA |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | NA | | | NA | | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | NA | | | NA | | | NA | | NA |
| Naphthalene | 10 | 100 | | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | | | NA | | | NA | | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | NA | | | NA | | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | | | NA | | | NA | | | NA | | NA |
| **Effluent** | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | 2.3J | | | 2.2J | | | 2.5J | | 2.0J |
| GRO (mg/L) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| DRO (mg/L) | NS | NS | | | | NA | | | NA | | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | | <0.40 | | | <0.40 | | | <0.40 | | <0.40 |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | <0.39 | | | <0.39 | | | <0.39 | | <0.39 |
| Methyl-tert-butyl ether | 12 | 60 | | | | <0.48 | | | <0.48 | | | <0.48 | | <0.48 |
| Napthalene | 10 | 100 | 70 | | | <0.42 | | | <0.42 | | | <0.42 | | <0.42 |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | | NA | | NA |
| Toluene | 160 | 800 | | | | <0.39 | | | <0.39 | | | <0.39 | | <0.39 |
| Trimethylbenzenes (total) | 96 | 480 | | | | <0.84 | | | <0.84 | | | <0.84 | | <0.84 |
| Xylenes (total) | 400 | 2000 | | | | <1.25 | | | <1.25 | | | <1.25 | | <1.25 |
| Total BTEX | NS | NS | 750 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 |
| **PAHs** (ug/L)' | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | <0.0063 | | | <0.0056 | | | <0.0055 | | 0.0051J |
| Acenaphthylene | NS | NS | | | | <0.0057 | | | <0.0050 | | | <0.0050 | | 0.0062J |
| Anthracene | 600 | 3000 | | | | <0.0064 | | | <0.0057 | | | 0.015J | | <0.0029 |
| Benzo(a)anthracene | NS | NS | | | | <0.0060 | | | <0.0053 | | | <0.0052 | | <0.0039 |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | | <0.0044 | | | <0.0039 | | | <0.0039 | | <0.0031 |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | | <0.0076 | | | <0.0067 | | | <0.0066 | | <0.0060 |
| Benzo(g,h,i)perylene | NS | NS | | | | <0.015 | | | <0.013 | | | <0.013 | | <0.0062 |
| Benzo(k)fluoranthene | NS | NS | | | | <0.0053 | | | <0.0047 | | | <0.0047 | | <0.0058 |
| Chrysene | 0.02 | 0.2 | | | | <0.0096 | | | <0.0084 | | | <0.0083 | | <0.0074 |
| Dibenz(a,h)anthracene | NS | NS | | | | <0.016 | | | <0.014 | | | <0.014 | | <0.0040 |
| Fluoranthene | 80 | 400 | | | | <0.0042 | | | 0.0047J | | | 0.0043J | | <0.0059 |
| Fluorene | 80 | 400 | | | | <0.0064 | | | <0.0057 | | | <0.0056 | | 0.0052J |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | | <0.015 | | | <0.013 | | | <0.013 | | <0.0042 |
| 1-Methylnaphthalene | NS | NS | | | | <0.0060 | | | <0.0053 | | | <0.0052 | | 0.032J |
| 2-Methylnaphthalene | NS | NS | | | | <0.0071 | | | <0.0063 | | | <0.0062 | | 0.022J |
| Naphthalene | 10 | 100 | 70 | | | <0.012 | | | <0.010 | | | 0.011J | | 0.016J |
| Phenanthrene | NS | NS | | | | <0.0058 | | | 0.0063J | | | 0.0083J | | 0.016J |
| Pyrene | 50 | 250 | | | | <0.0047 | | | 0.0045J | | | 0.0058J | | <0.0069 |
| Total PAHs' | NS | NS | 0.1 | | | 0.0000 | | | 0.0155J | | | 0.0184J | | 0.016J |
| Total PAHs (not including J's) | NS | NS | 0.1 | | | 0.0000 | | | 0.0000 | | | 0.0000 | | 0.0000 |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evironmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
^ : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 9/3/2014 | 9/12/2014 | 9/30/2014 | 10/3/2014 | 10/20/2014 | 10/30/2014 | 11/21/2014 | 11/25/2014 | 12/21/2014 | 12/26/2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 71 | 72 | 75 | 75 | 78 | 79 | 82 | 83 | 87 | 87 |
| Company | Regulatory Standards | | | NSEC | NSEC | FG | NSEC | NSEC | FG | NSEC | FG | NSEC | FG |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection | Inspection | Sample | Inspection | Inspection | Sample | Inspection | Sample | Inspection | Sample |
| **Flow Meter Reading (gal)** | | | | 421500 | 438300 | 451000 | 455500 | 480600 | 487800 | 497700 | 508900 | 523600 | 530000 |
| **Change (gal)** | | | | 0 | 16800 | 12700 | 4500 | 25100 | 7200 | 9900 | 11200 | 14700 | 6400 |
| **Days Operation** | | | | 5 | 9 | 18 | 3 | 17 | 10 | 22 | 4 | 26 | 5 |
| **Daily Flow Rate (gal / day)** | | | | 0 | 1867 | 706 | 1500 | 1476 | 720 | 450 | 2800 | 565 | 1280 |
| **Total Flow (gal)** | | | | 595500 | 612300 | 625000 | 629500 | 654600 | 661800 | 671700 | 682900 | 697600 | 704000 |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | 239150 | 255950 | 268650 | 273150 | 298250 | 305450 | 315350 | 326550 | 341250 | 347650 |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 297950 | 314750 | 327450 | 331950 | 357050 | 364250 | 374150 | 385350 | 400050 | 406450 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 297950 | 314750 | 327450 | 331950 | 357050 | 364250 | 374150 | 385350 | 400050 | 406450 |
| **Influent** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | 2.8J | | | 3.1J | | <1.6 | | 3.1J" |
| GRO (ug/L) | NS | NS | | | | NA | | | NA | | NA | | NA |
| DRO (mg/L) | NS | NS | | | | NA | | | NA | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | <0.40 | | | <0.40 | | **1.2** | | <0.40 |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | <0.39 | | | 0.88J | | 1.6 | | <0.39 |
| Isopropylbenzene (Cumene) | NS | NS | | | | NA | | | NA | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | <0.48 | | | <0.48 | | <0.48 | | <0.48 |
| Naphthalene | 10 | 100 | | | | <0.42 | | | 0.85J | | 2.3 | | <0.42 |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Toluene | 160 | 800 | | | | <0.39 | | | <0.39 | | <0.39 | | <0.39 |
| Trimethylbenzenes (total) | 96 | 480 | | | | 1.7 | | | 22.1 | | 44.3 | | 3.0 |
| Xylenes (total) | 400 | 2000 | | | | <1.25 | | | 0.85J | | 4.7 | | <1.25 |
| **PAHs** (ug/L) | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Fluorene | 80 | 400 | | | | NA | | | NA | | NA | | NA |
| 1-Methylnaphthalene | NS | NS | | | | NA | | | NA | | NA | | NA |
| 2-Methylnaphthalene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Napthalene | 10 | 100 | | | | NA | | | NA | | NA | | NA |
| Phenanthrene | NS | NS | | | | NA | | | NA | | NA | | NA |
| **Post Zeolite** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | NA | | | NA | | NA | | NA |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | NA | | | NA | | NA | | NA |
| Isopropylbenzene (Cumene) | NS | NS | | | | NA | | | NA | | NA | | NA |
| p-Isopropyltoluene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | NA | | | NA | | NA | | NA |
| Naphthalene | 10 | 100 | | | | NA | | | NA | | NA | | NA |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Toluene | 160 | 800 | | | | NA | | | NA | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | NA | | | NA | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | | | NA | | | NA | | NA | | NA |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | NA | | NA |
| **PVOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | | NA | | | NA | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | NA | | | NA | | NA | | NA |
| Methyl-tert-butyl ether | 12 | 60 | | | | NA | | | NA | | NA | | NA |
| Naphthalene | 10 | 100 | | | | NA | | | NA | | NA | | NA |
| Toluene | 160 | 800 | | | | NA | | | NA | | NA | | NA |
| Trimethylbenzenes (total) | 96 | 480 | | | | NA | | | NA | | NA | | NA |
| Xylenes (total) | 400 | 2000 | | | | NA | | | NA | | NA | | NA |
| **Effluent** | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | | NA | | | NA | | NA | | NA |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | | 2.6J | | | <1.6 | | 4.0J | | <1.6 |
| GRO (mg/L) | NS | NS | | | | NA | | | NA | | NA | | NA |
| DRO (mg/L) | NS | NS | | | | NA | | | NA | | NA | | NA |
| **VOCs** (ug/L) | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | | <0.40 | | | <0.40 | | <0.40 | | <0.40 |
| n-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| sec-Butylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Ethylbenzene | 140 | 700 | | | | <0.39 | | | <0.39 | | <0.39 | | <0.39 |
| Methyl-tert-butyl ether | 12 | 60 | | | | <0.48 | | | <0.48 | | <0.48 | | <0.48 |
| Naphthalene | 10 | 100 | 70 | | | <0.42 | | | <0.42 | | <0.42 | | <0.42 |
| n-Propylbenzene | NS | NS | | | | NA | | | NA | | NA | | NA |
| Toluene | 160 | 800 | | | | <0.39 | | | <0.39 | | <0.39 | | <0.39 |
| Trimethylbenzenes (total) | 96 | 480 | | | | <0.84 | | | <0.84 | | <0.84 | | <0.84 |
| Xylenes (total) | 400 | 2000 | | | | <1.25 | | | <1.25 | | <1.25 | | <1.25 |
| Total BTEX | NS | NS | 750 | | | 0.00 | | | 0.00 | | 0.00 | | 0.00 |
| **PAHs** (ug/L)' | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | | <0.0034 | | | <0.0037 | | <0.0037 | | <0.0034 |
| Acenaphthylene | NS | NS | | | | <0.0029 | | | <0.0032 | | <0.0032 | | <0.0029 |
| Anthracene | 600 | 3000 | | | | <0.0024 | | | <0.0026 | | <0.0026 | | <0.0023 |
| Benzo(a)anthracene | NS | NS | | | | 0.0062J | | | <0.0034 | | <0.0034 | | <0.0031 |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | | <0.0025 | | | <0.0027 | | <0.0027 | | <0.0025 |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | | <0.0049 | | | <0.0052 | | <0.0052 | | <0.0047 |
| Benzo(g,h,i)perylene | NS | NS | | | | <0.0050 | | | <0.0054 | | <0.0054 | | <0.0049 |
| Benzo(k)fluoranthene | NS | NS | | | | <0.0047 | | | <0.0050 | | <0.0050 | | <0.0046 |
| Chrysene | 0.02 | 0.2 | | | | <0.0060 | | | <0.0065 | | <0.0065 | | <0.0059 |
| Dibenz(a,h)anthracene | NS | NS | | | | <0.0033 | | | <0.0035 | | <0.0035 | | <0.0032 |
| Fluoranthene | 80 | 400 | | | | <0.0048 | | | <0.0052 | | <0.0052 | | <0.0047 |
| Fluorene | 80 | 400 | | | | 0.0031J | | | <0.0030 | | <0.0030 | | <0.0027 |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | | <0.0034 | | | <0.0037 | | <0.0037 | | <0.0034 |
| 1-Methylnaphthalene | NS | NS | | | | 0.0094J | | | 0.027 J | | <0.0064 | | 0.0085J" |
| 2-Methylnaphthalene | NS | NS | | | | 0.016 J | | | 0.012 J | | <0.0085 | | <0.0077 |
| Naphthalene | 10 | 100 | 70 | | | 0.016 J | | | 0.0072 J | | <0.0062 | | 0.012J" |
| Phenanthrene | NS | NS | | | | <0.0084 | | | <0.0090 | | <0.0090 | | 0.0099J" |
| Pyrene | 50 | 250 | | | | <0.0056 | | | <0.0060 | | <0.0060 | | <0.0055 |
| Total PAHs' | NS | NS | 0.1 | | | 0.0062 J | | | 0.0000 | | 0.0000 | | 0.0099J" |
| Total PAHs (not including J's) | NS | NS | 0.1 | | | 0.0000 | | | 0.0000 | | 0.0000 | | 0.0000 |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evironmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
' : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**Table 1: Groundwater Treatment System Monitoring Results**
BP Gas Station, 10477 120th Ave., Pleasant Prairie, WI

| Date | | | | 1/11/2015 | 1/30/2015 | 2/21/2015 | 2/25/2015 | 3/21/2015 | 3/31/2015 | 4/13/2015 | 4/29/2015 | 5/5/2015 | 5/28/2015 | 6/11/2015 | 6/18/2015 | 7/3/2015 | 7/20/2015 | 7/29/2015 | System Activity | Average Daily Flow Rate | Life Remaining (gallons) | Life Remaining (years) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | | | | 90 | 92 | 95 | 96 | 99 | 101 | 103 | 105 | 106 | 109 | 111 | 112 | 114 | 117 | 118 | | | | |
| Company | Regulatory Standards | | | NSEC | FG | NSEC | FG | NSEC | FG | NSEC | FG | NSEC | FG | NSEC | NSEC | NSEC | NSEC | FG | | | | |
| **Activity** | NR 140 PAL | NR 140 ES | WPDES Permit Maximum Limit | Inspection | Sample | Inspection | Sample | Inspection | Sample | Inspection | Sample | Inspection | Sample | Inspection | Inspection / Sample | Inspection | Inspection | Sample | Past Year | Life of Treatment System | Calculation: Vessel Life - Volume Treated Since Last Media Change-Out | Calculation: Vessel Life Remaining (gallons) x Daily Flow Rate ÷ 365 |
| **Flow Meter Reading (gal)** | | | | 539000 | 544200 | 548400 | 548500 | 589200 | 599900 | 623700 | 637300 | 641700 | 667500 | 675100 | 690100 | 697900 | 715300 | 717300 | | | | |
| **Change (gal)** | | | | 9000 | 5200 | 4200 | 100 | 40700 | 10700 | 23800 | 13600 | 4400 | 25800 | 7600 | 15000 | 7800 | 17400 | 2000 | 311800 | | | |
| **Days Operation** | | | | 16 | 19 | 22 | 4 | 24 | 10 | 13 | 16 | 6 | 23 | 14 | 7 | 15 | 17 | 9 | 365 | | | |
| **Daily Flow Rate (gal / day)** | | | | 563 | 274 | 191 | 25 | 1696 | 1070 | 1831 | 850 | 733 | 1122 | 543 | 2143 | 520 | 1024 | 222 | 922 | 1300 | | |
| **Total Flow (gal)** | | | | 713000 | 718200 | 722400 | 722500 | 763200 | 773900 | 797700 | 811300 | 815700 | 841500 | 849100 | 864100 | 871900 | 889300 | 891300 | 854 | | | |
| **Volume Treated Since Media Change-Out** | | | | | | | | | | | | | | | | | | | | | | |
| **Zeolite (life = 2,850,000 gals)** | | | | 356650 | 361850 | 366050 | 366150 | 406850 | 417550 | 441350 | 454950 | 459350 | 485150 | 492750 | 507750 | 515550 | 532950 | 534950 | | | 2315050 | 4.88 |
| **Carbon Vessel-1 (life = 720,000 gal)** | | | | 415450 | 420650 | 424850 | 424950 | 465650 | 476350 | 500150 | 513750 | 518150 | 543950 | 551550 | 566550 | 574350 | 591750 | 593750 | | | 126250 | 0.27 |
| **Carbon Vessel-2 (Effluent) (life = 2,160,000 gal)** | | | | 415450 | 420650 | 424850 | 424950 | 465650 | 476350 | 500150 | 513750 | 518150 | 543950 | 551550 | 566550 | 574350 | 591750 | 593750 | | | 1566250 | 3.30 |
| **Influent** | | | | | | | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | 1.9J | | <1.6 | | <1.6 | | <1.6 | | <1.6 | | NA | | | Pending | | | | |
| GRO (ug/L) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| DRO (mg/L) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | <0.40 | | <0.40 | | 0.42J | | <0.40 | | <0.40 | | NA | | | Pending | | | | |
| n-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| sec-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Ethylbenzene | 140 | 700 | | | <0.39 | | <0.39 | | 0.61J | | 0.46J | | 0.50J | | NA | | | Pending | | | | |
| Isopropylbenzene (Cumene) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| p-Isopropyltoluene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | <0.48 | | <0.48 | | <0.48 | | <0.48 | | <0.48 | | NA | | | Pending | | | | |
| Naphthalene | 10 | 100 | | | <0.42 | | <0.42 | | <0.42 | | <0.42 | | <0.42 | | NA | | | Pending | | | | |
| n-Propylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Toluene | 160 | 800 | | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | NA | | | Pending | | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | <0.84 | | <0.84 | | 11.8 | | 6.7 | | 7.2 | | NA | | | Pending | | | | |
| Xylenes (total) | 400 | 2000 | | | <1.25 | | <1.25 | | 0.55J | | <1.25 | | <1.25 | | NA | | | Pending | | | | |
| **PAHs** (ug/L) | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Fluorene | 80 | 400 | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| 1-Methylnaphthalene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| 2-Methylnaphthalene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Napthalene | 10 | 100 | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Phenanthrene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| **Post Zeolite** | | | | | | | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| n-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| sec-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Ethylbenzene | 140 | 700 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Isopropylbenzene (Cumene) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| p-Isopropyltoluene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Naphthalene | 10 | 100 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| n-Propylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Toluene | 160 | 800 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Xylenes (total) | 400 | 2000 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| **Post Carbon Vessel-1** | | | | | | | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| **PVOCs** (ug/L) | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | | | NA | | NA | | NA | | NA | | NA | | < 0.0242 | | | Pending | | | | |
| Ethylbenzene | 140 | 700 | | | NA | | NA | | NA | | NA | | NA | | < 0.0244 | | | Pending | | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | NA | | NA | | NA | | NA | | NA | | < 0.0966 | | | Pending | | | | |
| Naphthalene | 10 | 100 | | | NA | | NA | | NA | | NA | | NA | | < 0.0761 | | | Pending | | | | |
| Toluene | 160 | 800 | | | NA | | NA | | NA | | NA | | NA | | < 0.0434 | | | Pending | | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | NA | | NA | | NA | | NA | | NA | | <0.0669 | | | Pending | | | | |
| Xylenes (total) | 400 | 2000 | | | NA | | NA | | NA | | NA | | NA | | < 0.147 | | | Pending | | | | |
| **Effluent** | | | | | | | | | | | | | | | | | | | | | | |
| Lead, dissolved (ug/L) | 1.5 | 15 | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| Total Recoverable Lead (ug/L) | NS | NS | 18.24^ | | <1.6 | | <1.6 | | <1.6 | | 2.5J | | <1.6 | | NA | | | Pending | | | | |
| GRO (mg/L) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| DRO (mg/L) | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | NA | | | | |
| **VOCs** (ug/L) | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.5 | 5 | 50 | | <0.40 | | <0.40 | | <0.40 | | <0.40 | | <0.42 | | NA | | | Pending | | | | |
| n-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| sec-Butylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Ethylbenzene | 140 | 700 | | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | NA | | | Pending | | | | |
| Methyl-tert-butyl ether | 12 | 60 | | | <0.48 | | <0.48 | | <0.48 | | <0.48 | | <0.48 | | NA | | | Pending | | | | |
| Naphthalene | 10 | 100 | 70 | | <0.42 | | <0.42 | | <0.42 | | <0.42 | | <0.42 | | NA | | | Pending | | | | |
| n-Propylbenzene | NS | NS | | | NA | | NA | | NA | | NA | | NA | | NA | | | Pending | | | | |
| Toluene | 160 | 800 | | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | <0.39 | | NA | | | Pending | | | | |
| Trimethylbenzenes (total) | 96 | 480 | | | <0.84 | | <0.84 | | <0.84 | | <0.84 | | <0.84 | | NA | | | Pending | | | | |
| Xylenes (total) | 400 | 2000 | | | <1.25 | | <1.25 | | <1.25 | | <1.25 | | <1.27 | | NA | | | Pending | | | | |
| Total BTEX | NS | NS | 750 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | NA | | | Pending | | | | |
| **PAHs** (ug/L)" | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | NS | NS | | | <0.0038 | | <0.0037 | | <0.0050 | | <0.0053 | | <0.0050 | | NA | | | Pending | | | | |
| Acenaphthylene | NS | NS | | | <0.0032 | | <0.0032 | | <0.0050 | | <0.0053 | | <0.0049 | | NA | | | Pending | | | | |
| Anthracene | 600 | 3000 | | | <0.0026 | | <0.0026 | | <0.0041 | | <0.0043 | | <0.0040 | | NA | | | Pending | | | | |
| Benzo(a)anthracene | NS | NS | | | <0.0035 | | <0.0034 | | <0.0052 | | <0.0055 | | <0.0051 | | NA | | | Pending | | | | |
| Benzo(a)pyrene | 0.02 | 0.2 | 0.1 | | <0.0028 | | <0.0027 | | <0.0045 | | <0.0048 | | <0.0044 | | NA | | | Pending | | | | |
| Benzo(b)fluoranthene | 0.02 | 0.2 | | | <0.0054 | | <0.0052 | | 0.0095J | | <0.0057 | | 0.0073J | | NA | | | Pending | | | | |
| Benzo(g,h,i)perylene | NS | NS | | | <0.0056 | | <0.0054 | | 0.0046J | | <0.0038 | | 0.0082J | | NA | | | Pending | | | | |
| Benzo(k)fluoranthene | NS | NS | | | <0.0052 | | <0.0050 | | <0.0057 | | <0.0061 | | <0.0056 | | NA | | | Pending | | | | |
| Chrysene | 0.02 | 0.2 | | | 0.0071J | | <0.0065 | | 0.0053J | | <0.0046 | | 0.0049J | | NA | | | Pending | | | | |
| Dibenz(a,h)anthracene | NS | NS | | | <0.0036 | | <0.0035 | | <0.0056 | | <0.0060 | | <0.0056 | | NA | | | Pending | | | | |
| Fluoranthene | 80 | 400 | | | 0.0086J | | <0.0052 | | <0.0095 | | <0.010 | | <0.0094 | | NA | | | Pending | | | | |
| Fluorene | 80 | 400 | | | 0.0035J | | <0.0030 | | <0.0041 | | <0.0043 | | <0.0040 | | NA | | | Pending | | | | |
| Indeno(1,2,3-cd)pyrene | NS | NS | | | <0.0038 | | <0.0037 | | 0.0038J | | <0.0038 | | 0.0091J | | NA | | | Pending | | | | |
| 1-Methylnaphthalene | NS | NS | | | 0.032J | | 0.063 | | 0.0035J | | <0.0033 | | 0.0096J | | NA | | | Pending | | | | |
| 2-Methylnaphthalene | NS | NS | | | 0.11 | | 0.12 | | 0.0068J | | 0.0034J | | 0.0080J | | NA | | | Pending | | | | |
| Naphthalene | 10 | 100 | 70 | | 0.021J | | 0.0065J | | 0.0084J | | <0.0049 | | 0.0075J | | NA | | | Pending | | | | |
| Phenanthrene | NS | NS | | | 0.039J | | 0.011J | | 0.0098J | | <0.0082 | | <0.0077 | | NA | | | Pending | | | | |
| Pyrene | 50 | 250 | | | 0.0083J | | 0.0064J | | <0.0078 | | <0.0083 | | <0.0077 | | NA | | | Pending | | | | |
| Total PAHs' | NS | NS | 0.1 | | 0.0630J | | 0.0174J | | 0.0380J | | 0.0034J | | 0.0295J | | NA | | | Pending | | | | |
| Total PAHs (not including J's) | NS | NS | 0.1 | | 0.0000 | | 0.0000 | | 0.0000 | | 0.0000 | | 0.0000 | | NA | | | Pending | | | | |

Notes:
Trimethylbenzenes reported as 1,2,4 and 1,3,5-Trimethylbenzene
Xylenes reported as total of m-, o-, p-xylenes
NA = Not analyzed / not applicable
NS = No standard established
ND = Not Detected Above Laboratory Detection Limits
**BOLD** and Boxed value indicates exceedance of NR 140.10 Enforcement Standard (ES)
**BOLD** value exceeds NR 140 Preventive Action Limit (PAL)
**BOLD** and Highlighted values indicates exceedance of WPDES Permit Limit
ug/L = micrograms per liter = parts per billion
WPDES = Wisconsin Pollutant Discharge Elimination System
NR-140 Wisconsin Administrative Code Chapter NR-140 for Groundwater
PAL : Preventive Action Limit ES : Enforcement Standard for Groundwater
MES = Midwest Engineering Services, Inc.
NSEC = North Shore Environmental Construction
FG = Fehr Graham Engineering and Evirronmental
J = Conc. above the method detection limit and below the reporting limit
B = Compound present in laboratory method blank
* : Effluent data PVOCs suspected to be in error, results identical to influent chemistry
" : Parameters of analysis reduced for 7/25/13 sample based on the historic results as presented to Village in July 10, 2013 transmittal.
^ : Proposed WDNR calculated limit for lead
' : PAHs regulated by the WPDES permit include the summation of the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
" : Analyte was detected in the associated method blank.

**TABLE 2**
Water Level Elevations
Site Name BP Gas Station #3789 (Vidhya Corp.)
Site Address 10477 102nd Avenue, Pleasant Prairie, WI 53158
BRRTS# 02-30-557069

| Well Identification | MES MW-1 | MES MW-2 | MES MW-3 | MES MW-4 | MES MW-5 |
|---|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 696.86 | 694.24 | 693.62 | 693.56 | 694.25 |
| Ground (rim) Surface Elevation (ft. MSL) | 697.27 | 694.71 | 694.01 | 694.14 | 694.81 |
| Total Well Depth | 14.95 | 16.54 | 15.89 | 12.77 | 17.46 |
| Stickup | -0.41 | -0.47 | -0.39 | -0.58 | -0.56 |

| Well Identification | MES MW-6 | MW-101 | MW-102 | MW-103 | North Sump |
|---|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 693.12 | 692.30 | 692.28 | 691.07 | 693.17 |
| Ground (rim) Surface Elevation (ft. MSL) | 693.79 | 692.80 | 692.67 | 691.74 | 693.52 |
| Total Well Depth | 13.99 | 15.03 | 14.91 | 14.91 | 12.42 |
| Stickup | -0.67 | -0.50 | -0.39 | -0.67 | -0.35 |

| Well Identification | Gas Sump | Diesel Sump | North Sump Well | T-1 (1" Temp Well E) |
|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 693.91 | 693.72 | NA | 694.94 |
| Ground (rim) Surface Elevation (ft. MSL) | 694.36 | 694.17 | NA | 694.63 |
| Total Well Depth | 9.98 | 10.52 | 7.79 | 14.87 |
| Stickup | -0.45 | -0.45 | 1.96 | 0.31 |

| | MES MW-1 | | | MES MW-2 | | | MES MW-3 | | | MES MW-4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) |
| 7/18/2003* | 2.38 | -- | 694.54 | 6.82 | -- | 687.52 | 5.61 | -- | 688.06 | 5.18 | -- | 688.40 |
| 1/4/2013+ | 13.95 | -- | 682.97 | 7.55 | -- | 686.79 | 7.81 | -- | 685.86 | 4.61 | -- | 688.97 |
| 4/17/13+ | 13.56 | -- | 683.36 | 8.80 | -- | 685.54 | 8.14 | -- | 685.53 | 6.10 | -- | 687.48 |
| 5/24/13+ | 3.75 | -- | 693.17 | 11.76 | -- | 682.58 | 5.27 | -- | 688.40 | 4.31 | -- | 689.27 |
| 7/25/2013* | 1.99 | -- | 694.93 | 6.54 | -- | 687.80 | 5.11 | -- | 688.56 | 5.29 | -- | 688.29 |
| 8/27/2013* | 2.24 | -- | 694.68 | 6.60 | -- | 687.74 | 5.74 | -- | 687.93 | 6.27 | -- | 687.31 |
| 9/26/2013* | 3.91 | -- | 693.01 | 6.80 | -- | 687.54 | 5.81 | -- | 687.86 | 6.43 | -- | 687.15 |
| 10/29/2013* | 4.85 | -- | 692.07 | 7.44 | -- | 686.90 | 5.16 | -- | 688.51 | 6.53 | -- | 687.05 |
| 11/26/2013* | 5.81 | -- | 691.11 | 6.83 | -- | 687.51 | 4.12 | -- | 689.55 | 6.15 | -- | 687.43 |
| 12/26/2013* | 6.75 | -- | 690.17 | 7.28 | -- | 687.06 | 4.99 | -- | 688.68 | 6.35 | -- | 687.23 |
| 1/8/2014* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/21/2014* | 7.70 | -- | 689.22 | 6.35 | -- | 687.99 | -- | -- | -- | -- | -- | -- |
| 3/27/2014* | 7.81 | -- | 689.11 | 7.17 | -- | 687.17 | -- | -- | -- | 5.24 | -- | 688.34 |
| 4/21/2014* | 7.50 | -- | 689.42 | 6.20 | -- | 688.14 | 3.25 | -- | 690.42 | 5.35 | -- | 688.23 |
| 5/28/2014* | 4.57 | -- | 692.35 | 6.59 | -- | 687.75 | -- | -- | -- | 5.45 | -- | 688.13 |
| 6/5/2014 | 4.61 | 5.02 | 692.25 | 6.40 | 6.87 | 687.84 | 0.69 | 1.08 | 692.93 | 5.08 | 5.66 | 688.48 |
| 6/23/2014 | 9.38 | 9.79 | 687.48 | 5.95 | 6.42 | 688.29 | 1.20 | 1.59 | 692.42 | 5.62 | 6.20 | 687.94 |
| 7/29/2014 | 5.66 | 6.07 | 691.20 | 6.85 | 7.32 | 687.39 | 4.60 | 4.99 | 689.02 | 6.52 | 7.10 | 687.04 |
| 8/29/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/25/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/26/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/30/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/25/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/31/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/29/2015 | 4.33 | 4.74 | 692.53 | 6.42 | 6.89 | 687.82 | 2.54 | 2.93 | 691.08 | 6.24 | 6.82 | 687.32 |
| 5/28/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/29/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | MES MW-5 | | | MES MW-6 | | | MW-101 | | | MW-102 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) |
| 7/18/2003* | 8.35 | -- | 685.98 | 13.99 | -- | 679.23 | -- | -- | -- | -- | -- | -- |
| 1/4/13+ | 17.24 | -- | 677.09 | 4.76 | -- | 688.46 | -- | -- | -- | -- | -- | -- |
| 4/17/13+ | 15.51 | -- | 678.82 | 7.90 | -- | 685.32 | -- | -- | -- | -- | -- | -- |
| 5/24/13+ | 7.05 | -- | 687.28 | 6.30 | -- | 686.92 | -- | -- | -- | -- | -- | -- |
| 7/25/2013* | 8.23 | -- | 686.10 | 6.68 | -- | 686.54 | -- | -- | -- | -- | -- | -- |
| 8/27/2013* | 7.18 | -- | 687.15 | 6.96 | -- | 686.26 | -- | -- | -- | -- | -- | -- |
| 9/26/2013* | 7.09 | -- | 687.24 | 7.09 | -- | 686.13 | -- | -- | -- | -- | -- | -- |
| 10/29/2013* | 6.55 | -- | 687.78 | 7.16 | -- | 686.06 | -- | -- | -- | -- | -- | -- |
| 11/26/2013* | 6.55 | -- | 687.78 | 6.72 | -- | 686.50 | -- | -- | -- | -- | -- | -- |
| 12/26/2013* | 7.75 | -- | 686.58 | 6.70 | -- | 686.52 | -- | -- | -- | -- | -- | -- |
| 1/8/2014* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/21/2014* | -- | -- | -- | 6.25 | -- | 686.97 | -- | -- | -- | -- | -- | -- |
| 3/27/2014* | 7.88 | -- | 686.45 | 5.89 | -- | 687.33 | -- | -- | -- | -- | -- | -- |
| 4/21/2014* | 7.14 | -- | 687.19 | 5.81 | -- | 687.41 | -- | -- | -- | -- | -- | -- |
| 5/28/2014* | 5.50 | -- | 688.83 | 6.02 | -- | 687.20 | Installed 5/16/2014 | | | Installed 5/16/2014 | | |
| 6/5/2014 | 5.16 | 5.72 | 689.09 | 6.06 | 6.73 | 687.06 | 13.40 | 13.90 | 678.90 | 13.04 | 13.43 | 679.24 |
| 6/23/2014 | 13.61 | 14.17 | 680.64 | 5.77 | 6.44 | 687.35 | 8.58 | 9.08 | 683.72 | 3.02 | 3.41 | 689.26 |
| 7/29/2014 | 10.47 | 11.03 | 683.78 | 6.65 | 7.32 | 686.47 | 5.98 | 6.48 | 686.32 | 5.35 | 5.74 | 686.93 |
| 8/29/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/25/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/26/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/30/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/25/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/31/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/29/2015 | 8.20 | 8.76 | 686.05 | 5.76 | 6.43 | 687.36 | 4.75 | 5.25 | 687.55 | 5.15 | 5.54 | 687.13 |
| 5/28/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/29/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
Water Level Elevations
Site Name BP Gas Station #3789 (Vidhya Corp.)
Site Address 10477 102nd Avenue, Pleasant Prairie, WI 53158
BRRTS# 02-30-557069

| Well Identification | MES MW-1 | MES MW-2 | MES MW-3 | MES MW-4 | MES MW-5 |
|---|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 696.86 | 694.24 | 693.62 | 693.56 | 694.25 |
| Ground (rim) Surface Elevation (ft. MSL) | 697.27 | 694.71 | 694.01 | 694.14 | 694.81 |
| Total Well Depth | 14.95 | 16.54 | 15.89 | 12.77 | 17.46 |
| Stickup | -0.41 | -0.47 | -0.39 | -0.58 | -0.56 |

| Well Identification | MES MW-6 | MW-101 | MW-102 | MW-103 | North Sump |
|---|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 693.12 | 692.30 | 692.28 | 691.07 | 693.17 |
| Ground (rim) Surface Elevation (ft. MSL) | 693.79 | 692.80 | 692.67 | 691.74 | 693.52 |
| Total Well Depth | 13.99 | 15.03 | 14.91 | 14.91 | 12.42 |
| Stickup | -0.67 | -0.50 | -0.39 | -0.67 | -0.35 |

| Well Identification | Gas Sump | Diesel Sump | North Sump Well | T-1 (1" Temp Well E) |
|---|---|---|---|---|
| Top of Casing Elevation (ft MSL) | 693.91 | 693.72 | NA | 694.94 |
| Ground (rim) Surface Elevation (ft. MSL) | 694.36 | 694.17 | NA | 694.63 |
| Total Well Depth | 9.98 | 10.52 | 7.79 | 14.87 |
| Stickup | -0.45 | -0.45 | 1.96 | 0.31 |

| | MW-103 | | | North Sump | | | Gas Sump | | | Diesel Sump | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Water (ft below PVC Lip) | Depth to Water (below rim grade) | Groundwater Elev. (ft msl) | Depth to Water (ft below PVC Lip) | Depth to Water (below rim grade) | Groundwater Elev. (ft msl) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) |
| 7/18/2013* | -- | -- | -- | 11.33 | 11.73 | -- | 9.50 | 9.95 | -- | 10.33 | 10.18 | -- |
| 7/22/2013* | -- | -- | -- | 11.33 | 11.73 | -- | 9.50 | 9.95 | -- | 10.33 | 10.78 | -- |
| 8/16/2013* | -- | -- | -- | 11.33 | 11.73 | -- | 9.75 | 10.20 | -- | 11.33 | 11.78 | -- |
| 8/27/2013* | -- | -- | -- | 11.32 | 11.72 | -- | 9.05 | 9.50 | -- | 9.84 | 10.29 | -- |
| 9/26/2013* | -- | -- | -- | 11.60 | 12.00 | -- | 9.01 | 9.46 | -- | 9.85 | 10.30 | -- |
| 10/29/2013* | -- | -- | -- | 11.46 | 11.86 | -- | 9.04 | 9.49 | -- | 9.61 | 10.06 | -- |
| 11/26/2013* | -- | -- | -- | 11.95 | 12.35 | -- | 9.45 | 9.90 | -- | 9.90 | 10.35 | -- |
| 12/26/2013* | -- | -- | -- | 11.35 | 11.75 | -- | 9.01 | 9.46 | -- | 9.81 | 10.26 | -- |
| 1/8/2014* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/21/2014* | -- | -- | -- | 11.75 | 12.15 | -- | 9.17 | 9.62 | -- | 9.42 | 9.87 | -- |
| 3/27/2014* | -- | -- | -- | 11.61 | 12.01 | -- | 8.83 | 9.28 | -- | 9.31 | 9.76 | -- |
| 4/21/2014* | -- | -- | -- | 11.29 | 11.69 | -- | 9.10 | 9.55 | -- | 9.92 | 10.37 | -- |
| 5/28/2014* | | Installed 5/16/2014 | | 10.18 | 10.58 | -- | 8.68 | 9.13 | -- | 8.96 | 9.41 | -- |
| 6/5/2014 | 5.08 | 5.75 | 685.99 | 7.18 | 7.53 | 685.64 | 5.16 | 5.61 | 688.30 | 6.06 | 6.51 | 687.21 |
| 6/23/2014 | 3.88 | 4.55 | 687.19 | 11.35 | 11.70 | 681.47 | 8.95 | 9.40 | 684.51 | 9.80 | 10.25 | 683.47 |
| 7/29/2014 | 6.23 | 6.90 | 684.84 | 11.57 | 11.92 | 681.25 | 8.85 | 9.30 | 684.61 | 9.52 | 9.97 | 683.75 |
| 8/29/2014 | -- | -- | -- | 11.66 | 12.01 | 681.16 | 8.83 | 9.28 | 684.63 | 9.45 | 9.90 | 683.82 |
| 9/30/2014 | -- | -- | -- | 11.63 | 11.98 | 681.19 | 9.00 | 9.45 | 684.46 | 9.75 | 10.20 | 683.52 |
| 10/30/2014 | -- | -- | -- | 11.66 | 12.01 | 681.16 | 8.80 | 9.25 | 684.66 | 9.68 | 10.13 | 683.59 |
| 11/25/2014 | -- | -- | -- | 11.67 | 12.02 | 681.15 | 8.76 | 9.21 | 684.70 | 9.65 | 10.10 | 683.62 |
| 12/26/2014 | -- | -- | -- | 11.45 | 11.80 | 681.37 | 8.76 | 9.21 | 684.70 | 9.64 | 10.09 | 683.63 |
| 1/30/2015 | -- | -- | -- | 11.68 | 12.03 | 681.14 | 8.75 | 9.20 | 684.71 | 9.77 | 10.22 | 683.50 |
| 2/25/2015 | -- | -- | -- | 11.48 | 11.83 | 681.34 | 8.80 | 9.25 | 684.66 | 9.56 | 10.01 | 683.71 |
| 3/31/2015 | -- | -- | -- | 11.39 | 11.74 | 681.43 | 8.66 | 9.11 | 684.80 | 9.25 | 9.70 | 684.02 |
| 4/29/2015 | 4.00 | 4.67 | 687.07 | 11.54 | 11.89 | 681.28 | 8.69 | 9.14 | 684.77 | 9.24 | 9.69 | 684.03 |
| 5/28/2015 | -- | -- | -- | 11.41 | 11.76 | 681.41 | 8.72 | 9.17 | 684.74 | 9.30 | 9.75 | 683.97 |
| 7/29/2015 | -- | -- | -- | 11.55 | 11.90 | 681.27 | 9.77 | 10.22 | 683.69 | 9.50 | 9.95 | 683.77 |

| | North Sump Well (4" PVC) | | | T-1 (1" Temp Well E) | | | (D)MW-4 (1" Temp Well NE) | | |
|---|---|---|---|---|---|---|---|---|---|
| Sample Date | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl) | Depth to Water (ft below PVC Lip) | Depth to Water (below grade) | Groundwater Elev. (ft msl.) |
| 7/18/2003* | 7.17 | 5.21 | -- | 7.40 | 7.12 | -- | 3.30 | 3.30 | -- |
| 7/25/2013* | 7.24 | 5.28 | -- | 7.19 | 6.91 | -- | 3.48 | 3.48 | -- |
| 8/27/2013* | 7.24 | 5.28 | -- | 7.28 | 7.00 | -- | 3.40 | 3.40 | -- |
| 9/26/2013* | 7.28 | 5.32 | -- | 7.43 | 7.15 | -- | 3.35 | 3.35 | -- |
| 10/29/2013* | 7.25 | 5.29 | -- | 7.96 | 7.68 | -- | 3.40 | 3.40 | -- |
| 11/26/2013* | 7.23 | 5.27 | -- | 7.46 | 7.18 | -- | -- | -- | -- |
| 12/26/2013* | 7.26 | 5.30 | -- | 7.88 | 7.60 | -- | -- | -- | -- |
| 1/8/2014* | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/21/2014* | -- | -- | -- | 7.22 | 6.94 | -- | -- | -- | -- |
| 3/27/2014* | 7.22 | 5.26 | -- | 6.45 | 6.17 | -- | -- | -- | -- |
| 4/21/2014* | 7.13 | 5.17 | -- | 6.88 | 6.60 | -- | -- | -- | -- |
| 5/28/2014* | 7.14 | 5.18 | -- | 7.25 | 6.97 | -- | -- | -- | -- |
| 6/5/2014* | 5.08 | 3.12 | -- | 5.16 | 4.85 | 689.78 | -- | -- | -- |
| 6/23/2014 | 7.28 | 5.32 | -- | 6.63 | 6.32 | 688.31 | -- | -- | -- |
| 7/29/2014 | 7.60 | 5.64 | -- | 6.63 | 6.32 | 688.31 | 7.50 | 7.50 | -- |
| 8/29/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/30/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/25/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/26/2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/30/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/25/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/31/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/29/2015 | 7.58 | 5.62 | -- | 7.05 | 6.74 | 687.89 | -- | -- | -- |
| 7/29/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

--: Not recorded due to well not found, buried in snow, frozen or beneath pooled water, or no elevation data.
ft msl: feet above mean sea level
7/18/2013*: Water Elevations based on data provided by Northshore Environmental.
6/5/2014: Water Elevation obtained after new survey conducted by Jacob Land Survey on 5/28/2014
NA: Water Elevation data not available
5/24/13+: Water Elevation obtained from MES Table 4 "Groundwater Elevations"

# Attachments

Attachment A: Inspection Sheets – June-July 2015

Attachment B: NSEC Inspection and Water Removal Summary Report

Attachment C: Photolog

# Attachment A

Inspection Sheets – June-July 2015

# Inspection Sheet

Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11' 1"<br>Gas well: 9' 2"<br>Diesel well: 9' 9" | 6-11-15<br>RPW |
| Inspection of 4 Baffles inside storm drain. | All Baffles OK | |
| Change out bag filters to treatment system. | Bag Filters OK | |
| Weekly total from flow meter. | 675,100 | |
| Check treatment system for leaks. | no leaks | |
| Check ditch line. | no sheen in Ditch | |
| Change out absorbent booms on site and list site location. | Absorbent OK | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Inspection Sheet

Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11'3"<br>Gas well: 9'2"<br>Diesel well: 9'10" | 6-18-15<br>RRW |
| Inspection of 4 Baffles inside storm drain. | Baffles OK | |
| Change out bag filters to treatment system. | Changed All Filters | |
| Weekly total from flow meter. | 690,100 Gallons | |
| Check treatment system for leaks. | Greased All Metal Valves | |
| Check ditch line. | Took Pictures<br>Ditch Clear and OK | |
| Change out absorbent booms on site and list site location. | Boom OK | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Inspection Sheet

Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11' 4"<br>Gas well: 9' 3"<br>Diesel well: 10' | RPW<br>7-3-15 |
| Inspection of 4 Baffles inside storm drain. | Changed All Absorbents in Storm Drains | |
| Change out bag filters to treatment system. | filters OK | |
| Weekly total from flow meter. | 697,900 | |
| Check treatment system for leaks. | No leaks | |
| Check ditch line. | Ditch line clear | |
| Change out absorbent booms on site and list site location. | Changed boom in Ditch line | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Inspection Sheet

Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11'<br>Gas well: 9'<br>Diesel well: 9' 8" | RRW<br>7-20-15 |
| Inspection of 4 Baffles inside storm drain. | All Baffles OK | |
| Change out bag filters to treatment system. | Bag Filters OK | |
| Weekly total from flow meter. | 715,300 gallons | |
| Check treatment system for leaks. | No leaks on system | |
| Check ditch line. | Ditch line clear | |
| Change out absorbent booms on site and list site location. | Booms OK | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Inspection Sheet

Bi-Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11.55'<br>Gas well: 9.77'<br>Diesel well: 9.50' | 7/29/15<br>JS |
| Inspection of 4 Baffles inside storm drain. | NA | |
| Change out bag filters to treatment system. | NA | |
| Weekly total from flow meter. | 717,300 | |
| Check treatment system for leaks. | OK | |
| Check ditch line. | See Matt O. Ditch Inspection sheet | |
| Change out absorbent booms on site and list site location. | NA | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Attachment B

NSEC Inspection and Water Removal Summary Report

**BP**

**10477 120th Street Pleasant Prairie, WI**

**RE; Monthly inspection and water removal**

July 3, 2015 North Shore Environmental was notified by BP with concerns of water in the top section of their 10,000 gallon fuel tanks.

North Shore responded at 7:00 AM with a vacuum truck to remove the water. NSEC removed 700 gallons of storm water runoff from the parking lot from 2 of the 4 fuel tanks. See site photo from where North Shore removed the 700 gallons.

NSEC transported the water to Port Washington waste water receiving station.

North Shore did the first monthly inspection on the site. See attached inspection sheet.

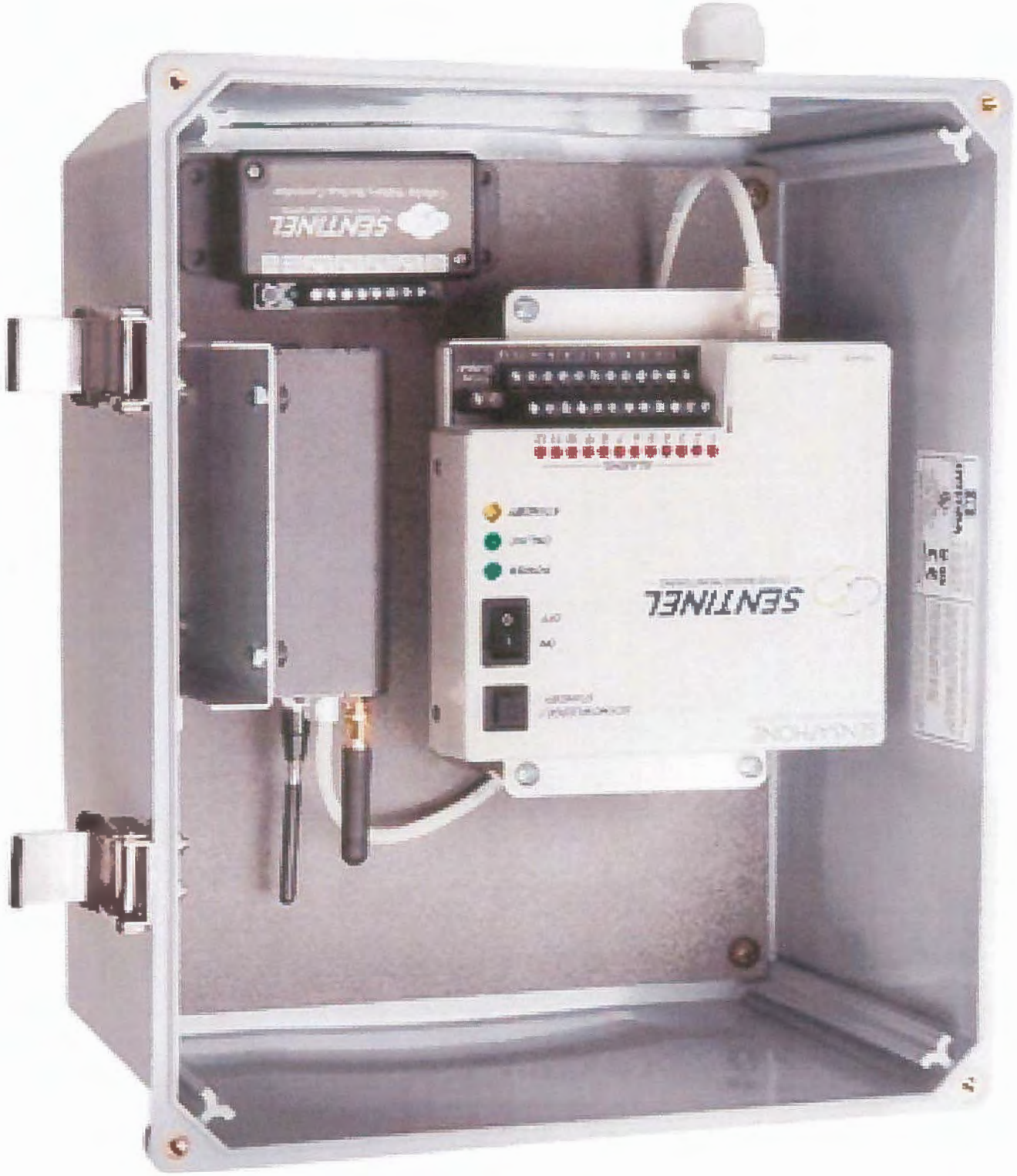
On June 25, 2015 North Shore replaced all absorbent booms and replacement absorbent pillows from 4 storm drain catch basins and the absorbent boom in the ditch line north of the property.

July 20, 2015 North Shore was on site to do the monthly inspection, see attached inspection sheet. North Shore had Grunau Electric on site to give BP a bid to install the new Sensaphone Sentinel.

North Shore is currently waiting on the go ahead from Mike McTernan attorney for BP to install the Sensaphone Sentinel.

Tank 2
Tank 1

Fuel Stop
Location of where the water was pumped out by NSEC


SENTINEL
SENTINEL

# Inspection Sheet
## Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11' 4"<br>Gas well: 9' 3"<br>Diesel well: 10' | RPW<br>7-3-15 |
| Inspection of 4 Baffles inside storm drain. | Changed All Absorbents in Storm Drains | |
| Change out bag filters to treatment system. | Filters OK | |
| Weekly total from flow meter. | 697,900 | |
| Check treatment system for leaks. | No leaks | |
| Check ditch line | Ditch line clear | |
| Change out absorbent booms on site and list site location. | Changed boom in Ditch line | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

# Inspection Sheet

Weekly Inspection

**BP Amoco**
10477 120th Avenue
Pleasant Prairie, WI 53158

| Item Location | Description of Work | Date Completed |
|---|---|---|
| Inspection of 3 recovery wells with ground water levels. | North well: 11'<br>Gas well: 9'<br>Diesel well: 9' 8" | RRW<br>7-20-15 |
| Inspection of 4 Baffles inside storm drain. | All Baffles OK | |
| Change out bag filters to treatment system. | Bag Filters OK | |
| Weekly total from flow meter. | 715,300 gallons | |
| Check treatment system for leaks. | No leaks on system | |
| Check ditch line. | Ditch line clear | |
| Change out absorbent booms on site and list site location. | Booms OK | |

North Shore Environmental Construction
N117W18493 Fulton Drive
Germantown, WI 53022
262-255-4468

City of Port Washington
Septage Receiving Station

# WASTEWATER DISPOSAL

14803

Date: 7-3-15 Time: 11:00 AM

**CONTRACTOR:**

Name: North Shore Environmental Cons.

Signature: [signature]

Profile # 14803

**HAULED FROM:**

Name: BP Gas Station

Address: 10477 120th Av. Pleasant Prairie

Name: _____

Address: _____

**NO. OF GALLONS:** 700

**TYPE OF WASTE:**

| | |
|---|---|
| ☐ Domestic | ☐ Septic Tank |
| ☒ Commercial | ☐ Holding Tank |
| ☐ Industrial | ☐ Portable Toilet |
| | ☐ Landfill Leachate |
| | ☒ Other Storm Water |

# Attachment C

Photolog

Photo 1: North ditch effluent culvert with no sheen (7/29/15)

Photo 2: North ditch line, looking East from effluent culvert (7/29/15)

Photo 3: North ditch line, looking West from Culver's property line (7/29/15)

Photo 4: North ditch line, oil absorbent boom at Culver's property line in good condition (7/29/15)

Photo 5: North ditch line, looking East from effluent culvert, black line represents area where sheens were observed on BP property (7/29/15)

Photo 6: North ditch line, representative oil sheen observed in BP ditch line (7/29/15)

Photo 7: North ditch line, looking East from effluent culvert, additional absorbant booms have been placed perpendicular and parrelleling the ditch line to address the minor oil sheens observed by Fehr Graham on July 29, 2015 (8/7/15)