

From: Wentland, Thomas A - DNR
Sent: Monday, July 13, 2020 4:34 PM
To: Van Donsel, Terese
Subject: Comments on Sheboygan Falls Dewatering Site
Attachments: Approved Work Plans (Dewatering Pads).pdf; 4400-316.pdf; 716.pdf

Hello Terese,

My comments on the Site Investigation for the Sheboygan Falls De-Watering Site are the same as they have been for many years. Please take a look at the attached email I sent Pablo back in 2015. It has copies of a few pages from the approved 2006 Remedial Action Work Plan. In that plan PRS says "The end use of the property will be determined based on the clean-up criteria established by the State." The second attachment is a copy of our clean-up criteria, Form 4400-316, Site Investigation Work Plan Preparation Checklist. It is my position that if PRS wants to ultimately receive State of Wisconsin site closure the site investigation should follow the checklist. I am also attaching a copy of NR 716. Please call (920-304-0437) or email if you have questions or concerns.

Thanks Tom

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Chapter NR 716

SITE INVESTIGATIONS

NR 716.01	Purpose.
NR 716.02	Applicability.
NR 716.03	Definitions.
NR 716.05	General.
NR 716.07	Site investigation scoping.
NR 716.09	Site investigation work plan.

NR 716.11	Field investigation.
NR 716.13	Sampling and analysis requirements.
NR 716.14	Sample results notification requirements.
NR 716.15	Site investigation report.
NR 716.17	Additional requirements.

Note: Corrections made under s. 13.93 (2m) (b) 7., Stats., Register, February, 1997, No. 494.

NR 716.01 Purpose. The purpose of this chapter is to ensure that site investigations provide the information necessary to define the nature, degree and extent of contamination, define the source or sources of contamination, determine whether any interim actions, remedial actions, or both are necessary at the site or facility, and allow an interim or remedial action option to be selected that complies with applicable environmental laws. Nothing in this chapter shall be construed to require plans or reports that are more detailed or complex than is justified by the known scope of contamination or the complexity of the site or facility. This chapter is adopted pursuant to ss. 227.11 (2), 287.03 (1) (a), and 289.06, Stats., and ch. 292, Stats.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; am. Register, February, 1996, No. 482, eff. 3-1-96; CR 12-023: am. Register October No. 694, eff. 11-1-13.

NR 716.02 Applicability. (1) This chapter applies to all site investigations required under s. NR 716.05 and conducted by:

(a) The department under the authority of ch. 292, Stats. In this chapter, where the term “responsible parties” appears, it shall be read to include “the department” where department-funded response action is being taken.

(b) Responsible parties at sites, facilities or portions of a site or facility that are subject to regulation under ch. 292, Stats., regardless of whether there is direct involvement or oversight by the department.

Note: This chapter does not apply to site assessments undertaken for the sole purpose of gathering information prior to knowledge or discovery of contamination. However, upon the discovery of a discharge of a hazardous substance during a site assessment, s. 292.11, Stats., and ch. NR 706 require the responsible party to immediately notify the department of the discharge.

(c) Persons undertaking actions in order to obtain the liability exemption under s. 292.15, Stats. In this chapter, where the term “responsible parties” appears, it shall be read to include “the voluntary party” or “person under contract with the voluntary party” where an action is being taken to comply with s. 292.15, Stats.

(d) Other persons seeking closure under NR 726.

(2) The department may exercise enforcement discretion on a case-by-case basis and choose to regulate a site, facility or a portion of a site or facility under only one of a number of potentially applicable statutory authorities. However, where overlapping restrictions or requirements apply, the more restrictive provision controls. The department shall, after receipt of a request from the responsible parties, provide a letter indicating which regulatory program or programs the department considers to be applicable to a site or facility.

Note: Sites or facilities or portions of a site or facility that are subject to regulation under ch. 292, Stats., may also be subject to regulation under other statutes, including the solid waste statutes in ch. 289, Stats., or the hazardous waste management act, ch. 291, Stats., and the administrative rules adopted pursuant to those statutes. In addition, federal authorities such as CERCLA, RCRA, or TSCA may also apply to a site or facility or portions of a site or facility. One portion of a site or facility may be regulated under a different statutory authority than other portions of that site or facility.

Note: Persons who wish to conduct response actions that will be consistent with the requirements of CERCLA and the National Contingency Plan (NCP) may request that the department enter into a contract with them pursuant to s. 292.31 or a negotiated agreement under s. 292.11 (7) (d), Stats. However, a CERCLA-quality

response action will likely require compliance with additional requirements beyond those contained in chs. NR 700 to 754 in order to be consistent with CERCLA and the NCP.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; cr. (1) (c), Register, February, 1996, No. 482, eff. 3-1-96; CR 12-023: am. (1) (a) to (c), cr. (1) (d), am. (2) Register October No. 694, eff. 11-1-13.

NR 716.03 Definitions. In this chapter:

(1) “Batch of samples” means a group of samples collected during one discrete sampling event and stored and transported in a single shipping container, regardless of the number of samples in the group.

(2) “Equipment blank” means a sample of water which, prior to use, is known to be free of contaminants, and which is processed through the sampling equipment in the field in the same manner as the actual water sample to determine if field procedures introduce contaminants into the samples. This is also known as a “rinse blank” or a “field equipment blank.”

(3) “Immunoassay” means a test for the presence or concentration of a substance that relies on the reaction of one or more antibodies with the substance.

(4) “Investigative waste” means all solid and liquid wastes and contaminated environmental media resulting from activities conducted during a site investigation, immediate action, interim action, remedial action, or a monitoring or sampling event at a site or facility. Investigative wastes include soil from drill cuttings; drilling fluids; contaminated water from construction, purging, development and sampling of monitoring wells; and wash waters used during sampling or decontamination activities.

(6) “Piezometer” has the meaning specified in s. NR 141.05 (30).

Note: Section NR 141.05 (30) defines “piezometer” as “a groundwater monitoring well, sealed below the water table, installed for the specific purpose of determining either the elevation of the potentiometric surface or the physical, chemical, biological or radiological properties of groundwater at some point within the saturated zone or both.”

(7) “Potentiometric surface” has the meaning specified in s. NR 141.05 (31).

Note: Section NR 141.05 (31) defines “potentiometric surface” to mean “an imaginary surface representing the total head of groundwater and is the level to which water will rise in a well.”

(8) “Replicate sample” has the meaning specified in s. NR 149.03 (70).

Note: Section NR 149.03 (70) defines “replicate sample” to mean “2 or more substantially equal aliquots analyzed independently for the same parameter.” This is also known as a “duplicate.”

(8m) “Responsible parties” means, in this chapter, those parties defined under s. NR 700.03 (51) as well as those parties identified under s. NR 716.02 (1).

(9) “Temperature blank” has the meaning specified in s. NR 149.03 (15) (c).

Note: Section NR 149.03 (15) (c) defines “temperature blank” to mean “a sample container, of at least 40 ml. capacity, filled with water and transported with each shipment of collected samples to determine the temperature of other samples in the shipment on arrival at a laboratory.”

(10) “Trip blank” means a sample of reagent grade water which is used to determine possible contamination of samples

from volatile organic chemicals while in transit to and from the laboratory.

(11) "Water table observation well" has the meaning specified in s. NR 141.05 (46).

Note: Section NR 141.05 (46) defines "water table observation well" to mean "any groundwater monitoring well, in which the screen or open borehole intersects a water table, which is installed for the specific purpose of determining either the elevation of the water table or the physical, chemical, biological or radiological properties of groundwater at the water table or both."

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; correction in (10) made under s. 13.93 (2m) (b) 7., Stats., Register, January, 2001, No. 541; CR 12-023: am. (2), r. (5), am. (8), cr. (8m), am. (9), (10) Register October No. 694, eff. 11-1-13.

NR 716.05 General. (1) When site-specific or facility-specific information indicates that soil, sediment, groundwater, surface water, air or other environmental media at a site or facility may have become contaminated, persons identified under sub. NR 716.02 (1) shall conduct a site investigation consistent with this chapter. Unless sub. (2) is applicable, responsible parties shall use the factors in s. NR 708.09 (1) (a) to (n) and (2) (a) to (c) to determine whether or not a site investigation is necessary.

(2) A site investigation is not required of the responsible parties at a site or facility, if:

(a) After notification to the department of a hazardous substance discharge in accordance with ch. NR 706, the department determines that no further action is required of the responsible parties, based on the factors in s. NR 708.09 (1) and (2).

(b) After completion of an immediate action, the department determines that no further action is required of the responsible parties, based on the factors in s. NR 708.09 (1) and (2).

Note: The appropriate review fee specified in ch. NR 749 must accompany any request for the department to review a specific document.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; am. (2) (a), Register, February, 1997, No. 494, eff. 3-1-97; emerg. am. (1), eff. 5-18-00; am. (1), Register, January, 2001, No. 541, eff. 2-1-01; correction in (1) made under s. 13.93 (2m) (b) 7., Stats., Register, January, 2001, No. 541; CR 12-023: am. (1) Register October No. 694, eff. 11-1-13.

NR 716.07 Site investigation scoping. Prior to conducting the field component of a site investigation required under s. NR 716.05, responsible parties shall evaluate all of the following relevant items, considering the location of the site or facility, to ensure that the scope and detail of the field investigation are appropriate to the complexity of the site or facility:

(1) History of the site or facility, including industrial, commercial or other land uses that may have been associated with one or more hazardous substance discharges at the site or facility.

(2) Knowledge of the type of contamination and the amount of the contamination.

(3) History of previous hazardous substance discharges or environmental pollution.

(4) Environmental media affected or potentially affected by the contamination.

(5) Location of the site or facility, and its proximity to other sources of contamination.

(6) Need for permission from property owners to allow access to the site or facility and to adjacent or nearby properties.

(7) Potential or known impacts to receptors, including public and private water supplies; buildings and other cultural features; and utilities or other subsurface improvements. This evaluation shall include mapping the location of all water supply wells within a 1,200-foot radius of the outermost edge of contamination.

(8) Potential for impacts to any of the following:

(a) Species, habitat or ecosystems sensitive to the contamination.

(b) Wetlands, especially those in areas of special natural resource interest as designated in s. NR 103.04.

(c) Outstanding resource waters and exceptional resource waters as defined in ss. NR 102.10 and 102.11.

(d) Sites or facilities of historical or archaeological significance.

Note: Information on sites or facilities of historical or archaeological significance may be found at the following State Historical Society websites:

Wisconsin National Register of Historic Places: <http://preview.wisconsinhistory.org/Content.aspx?dsNav=Nrc:Id=4294966367.N:4294966612&dsNavOnly=N:4294966362>

Office of the State Archeologist: <http://www.wisconsinhistory.org/archaeology/osa/>.

(9) Potential interim and remedial actions applicable to the site or facility and the contamination.

(10) Immediate or interim actions already taken or in progress, including any evaluations made of whether an interim action is needed at the site or facility.

(11) Any other items, including climatological conditions and background water or soil quality information, that may affect the scope or conduct of the site investigation.

(12) The need to gather data to determine the hydraulic conductivity of materials where contaminated groundwater is found.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; emerg. cr. (12), eff. 5-18-00; cr. (12), Register, January, 2001, No. 541, eff. 2-1-01; CR 12-023: renum. (8) (b) to (e) to (8) (a) to (d), am. (12) Register October No. 694, eff. 11-1-13.

NR 716.09 Site investigation work plan. (1) GENERAL. Unless otherwise directed by the department, in cases where a site investigation is required under s. NR 716.05, responsible parties shall submit a work plan to the department within 60 days of receiving notification that a site investigation is required, describing the intended scope and conduct of a field investigation. One paper copy and one electronic copy of the plan shall be submitted to the department, unless otherwise directed by the department, in accordance with s. NR 700.11 (3g).

Note: Guidance for Electronic Submittals for the GIS Registry outlines how electronic copies should be submitted in the Adobe Portable Document Format (PDF) on optical disk media. This guidance can be accessed at <http://dnr.wi.gov/files/PDF/pubs/r/RR690.pdf>.

(2) CONTENTS. The work plan shall include all of the following information, unless otherwise directed by the department:

(a) Site name, address, and location by quarter-quarter section, township, range and county, and the location information specified in s. NR 716.15 (5) (d).

Note: Section NR 716.15 (5) (d) requires submittal of Wisconsin Transverse Mercator (WTM) coordinates.

(b) Name and address of the responsible party or parties, and name and address of all consultants or contractors involved in the response action.

(c) Site location map, consisting of the applicable portion of a 1:24,000-scale topographic quadrangle published by the United States geological survey with the name of the quadrangle indicated, and a site layout map to approximate scale depicting the layout of buildings, roads, discharge location and other relevant features of the site.

(d) Information gathered during scoping of the project, including the applicable items in s. NR 716.07.

(e) Basic information on the physiographical and geological setting of the site necessary to choose sampling methods and locations, including:

1. The existing topography, including prominent topographic features.

2. The surface water drainage patterns and significant hydrologic features, such as surface waters, springs, surface water drainage basins, divides, wetlands and whether the site lies within a floodplain or floodway.

3. Texture and classification of surficial soils.

4. General nature and distribution of geologic materials, including the thickness and type of unconsolidated materials and the type and nature of bedrock.

5. General hydrogeologic information.

6. Potential hazardous substance migration pathways.

(f) Sampling and analysis strategy to be used during the field investigation, including:

1. A description of the investigative techniques to be used to characterize the site or facility.

2. Identification on a site layout map of the locations, both planimetric and vertical, from which samples of environmental media will be obtained. Where locations cannot be specified in advance, the work plan shall include a description of the strategy to be used for determining these locations in the field.

3. A description of sampling methods to be used, including methods for collecting, preserving and delivering samples, and leak detection methods.

4. An itemization of the parameters for which samples will be analyzed, as well as the analytical methods to be used and their method detection limits.

5. A description of quality control and quality assurance procedures to be used per sampling method, including the items specified in s. NR 716.13.

6. A description of the procedures to be used to prevent cross-contamination among samples.

7. A description of the type of investigative wastes that will be generated during the site investigation and how they will be collected, stored, transported and treated or disposed of.

8. A discussion of how the sampling and analysis results will be related to results of any previous investigations at the site or facility, and how the results will be used to determine the degree and extent of the contamination and the selection of a remedial action option including, where appropriate, natural attenuation.

(g) A description of other procedures to be used for site management, including erosion control and repair of structural, soil, or ground disturbance.

(h) A schedule for conducting the field investigation and reporting the results to the department.

(3) DEPARTMENT REVIEW OF SUBMITTED WORK PLANS. (a) The department may instruct responsible parties to proceed without departmental review of work plans submitted under this section.

(b) Responsible parties that are not instructed to proceed under par. (a) shall wait before initiating the field investigation until the department has approved or conditionally approved the work plan, except that if the department has not reviewed the work plan within 30 days after its receipt by the department, the responsible parties shall proceed with the field investigation.

(c) If the department disapproves a work plan submitted under this section, the department shall provide to the responsible parties, in writing, the basis for disapproval and a deadline for providing a revised work plan.

(d) The lack of a response from the department, after the department's receipt of a work plan, may not be construed to mean that the department has approved the work plan.

Note: The department will only provide an approval if a review was requested, and the appropriate fee was submitted.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; r. and recr. (1), r. (3) (e), Register, April, 1995, No. 472, eff. 5-1-95; CR 12-023: am. (1), (2) (a), (f) 3., 5., 8., (g), (3) (b) Register October No. 694, eff. 11-1-13.

NR 716.11 Field investigation. (1) Responsible parties shall conduct a field investigation as part of each site investigation required under this chapter, unless the department directs otherwise.

(2) The field investigation shall be conducted in accordance with a work plan approved or conditionally approved by the department, unless the department has directed the responsible parties to proceed with a field investigation without department review of the investigation work plan.

(2g) The field investigation shall be initiated within 90 days of submittal of the work plan.

(2r) In cases where the responsible party pays a fee for department review of the work plan, the field investigation shall be initiated within 60 days after department approval of the work plan.

Note: The intent of this subsection is to be able to measure that progress is being made toward conducting a site investigation. Initiation may include preparatory measures to conducting the actual fieldwork.

(3) The purposes of the field investigation shall be to:

(a) Determine the nature, degree and extent, both areal and vertical, of the hazardous substances or environmental pollution in all affected media.

(b) Provide sufficient information to permit evaluation of interim options pursuant to ch. NR 708, and remedial action options pursuant to ch. NR 722, and to permit a determination to be made regarding whether any of the interim or remedial action options require a treatability study or other pilot-scale study.

(c) Provide sufficient information to determine the hydraulic conductivity of materials where contaminated groundwater is found.

(d) Provide an estimate, along with all necessary supporting information, of the mass of contamination in the source area. This includes sites involving free product or where natural attenuation is considered for part of the remedy.

Note: Methods and examples for estimating mass in the source zone, can be found in the following guidances: RR 699, Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Investigation, Assessment and Limitations of Monitored Natural Attenuation at <http://dnr.wi.gov/files/PDF/pubs/rr/RR699.pdf>; and RR 614, Guidance on Natural Attenuation for Petroleum Releases, at <http://dnr.wi.gov/files/PDF/pubs/rr/RR614.pdf>.

Note: The intent of this paragraph is to address situations where a discrete area indicates a release of a hazardous substance. It is not intended for situations where there is no discrete source area, such as when there is area-wide contamination from aerial deposition, or widespread areas of fill such as foundry ash.

(4) Responsible parties shall extend the field investigation beyond the property boundaries of the source area as necessary to fully define the extent of the contamination. If the responsible parties are unable to complete the required investigation beyond the source property because a property owner refuses access, the responsible parties shall notify the department within 30 days of the refusal, and shall document in writing the efforts undertaken to gain access when requested by the department.

(5) The field investigation shall include an evaluation of all of the following items:

(a) Potential pathways for migration of the contamination, including drainage improvements, utility corridors, bedrock and permeable material or soil along which vapors, free product or contaminated water may flow.

(b) The impacts of the contamination upon receptors.

(c) The known or potential impacts of the contamination on any of the resources listed in s. NR 716.07 (8) that were identified during the scoping process as having the potential to be affected by the contamination.

(d) Surface and subsurface rock, soil and sediment characteristics, including physical, geochemical and biological properties that are likely to influence the type and rate of contaminant movement, or that are likely to affect the choice of a remedial action.

(e) The extent of contamination in the source area, in soil and saturated materials, and in groundwater.

Note: The intent of this requirement is to collect samples in the general area where the contaminant was released, where the concentrations are generally expected to be the greatest, and to determine the presence of non-aqueous phase liquids, including samples from the smear zone. For further information on the smear zone, copies of the department's guidance "Smear Zone Contamination" may be obtained by accessing the following web site: <http://dnr.wi.gov/files/PDF/pubs/rr/RR712.pdf> or from any regional office of the department, or by writing to the Department of Natural Resources, Bureau for Remediation and Redevelopment, P. O. Box 7921, Madison, Wisconsin 53707. This requirement is not intended to address sampling of landfill waste materials. In cases where clean soils exist between shallower contaminated soil, and groundwater, groundwater still needs to be assessed.

(f) The extent, both vertically and horizontally, of groundwater contamination. Piezometers shall be used to determine the vertical extent of contamination, as appropriate to the situation.

Note: The use of piezometers may not be appropriate for all situations, including at the source area, or where a documented upward gradient exists downgradient of a source area.

(g) The presence and concentration of vapors sub-slab, when investigation of soil, soil gas or groundwater indicates that vapors may migrate to the foundation of an occupied building, taking into account the biodegradability of vapors, preferential pathways of vapor movement, or other physical or chemical factors affecting vapor movement into occupied buildings.

(h) The presence and concentration of vapors in indoor air, when it is necessary to determine the impact on an occupied structure considering applicable attenuation factors, land use, building size and other site-specific factors that affect exposure to vapor.

Note: Indoor air samples are expected to be collected and analyzed in most cases where vapor migration into an occupied residential setting is likely. A residential setting may include single or multiple family housing, and educational, childcare, and elder care facilities. Sampling and analysis is conducted to determine levels of the contaminants of concern. Indoor air sampling is not recommended in locations where the contaminant of concern is currently used in commercial or industrial operations.

(6) Responsible parties shall manage investigative wastes in a manner that will not pose a threat to public health, safety, or welfare or the environment, and which is consistent with state and federal regulations.

(7) Responsible parties shall label all drums containing investigative wastes, including drill cuttings and purge water, with the Bureau for Remediation and Redevelopment Tracking System activity number for the site, the site name, boring or well number, initial date of collection, and the contents.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; am. (3) (b), Register, April, 1995, No. 472, eff. 5-1-95; emerg. cr. (3) (c), am. (5) (a), eff. 5-18-00; cr. (3) (c), am. (5) (a), Register, January, 2001, No. 541, eff. 2-1-01; CR 12-023: cr. (2g), (2r), am. (3) (c), cr. (3) (d), (5) (e) to (h), (7) Register October No. 694, eff. 11-1-13.

NR 716.13 Sampling and analysis requirements.

(1) Responsible parties shall use laboratory analyses of environmental media samples which are collected, handled and analyzed in compliance with subs. (2) to (17) to confirm the nature and extent and evaluate the impacts of contamination, if a field investigation is required under s. NR 716.11 (1). Analytical methods used shall be suitable for the matrix, type of analyte, expected level of analyte, regulatory limit, and potential interferences in the samples to be tested.

(2) All chemical and physical analyses for which accreditation is available under ch. NR 149 shall be conducted by a laboratory accredited under ch. NR 149.

(3) Responsible parties may use non-laboratory methods of sample analysis, including field screening with a photoionization detector or flame ionization detector, analysis with a field gas chromatograph, geophysical or downhole probe surveying, non-certified mobile laboratory analysis, immunoassays and other appropriate methods, to supplement the information derived from laboratory analysis of samples. If non-laboratory methods are used at a location from which a laboratory sample is collected, responsible parties shall use separate samples for the non-laboratory and the laboratory analyses, unless the target compound is not subject to loss or alteration through sample handling.

(4) All soil samples obtained during the field investigation for the purpose of defining the degree and extent of the contamination shall be discrete, not composite, samples, unless the department explicitly approves in advance composite sampling for a specific site situation.

(5) Maximum holding times for soils shall be in accordance with the sampling method, sample storage container, and analytical methods used.

(6) Responsible parties shall provide for the following quality control and quality assurance procedures, at a minimum, when collecting samples for laboratory analysis for a field investigation conducted under this chapter:

(a) Chain of custody shall be documented from the time of sample collection to the receipt of the sample by the analytical laboratory. Chain of custody documentation shall be in compliance

with ch. NR 149, and shall be submitted to the department with the sample results.

(b) For soil samples, one temperature blank for every shipping container of samples that require cooling for preservation, unless samples are received by the laboratory on ice, unless another temperature is required by the analytical method used.

(c) For water samples:

1. One replicate sample for every 10 or less samples.

2. One equipment blank for every 10 or less samples, unless dedicated sampling equipment is used to prevent cross-contamination.

3. One trip blank for each shipping container that contained volatile samples.

4. One temperature blank for every shipping container of samples that require cooling for preservation, unless samples are shipped on ice.

(d) Decontamination of all sampling instruments between each sampling event, unless dedicated or disposable sampling devices are used in a manner that prevents cross contamination or other unintended contamination of samples.

(7) Responsible parties shall ensure that the following items are documented during the field investigation and are made available to the department upon request:

(a) Procedures for sampling and all other routine activities associated with the site investigation.

(b) A log of all routine and non-routine maintenance and calibrations performed on all instruments used during the field investigation.

(c) Field notes describing in detail the sequence of activities that took place during the field investigation.

(8) For soil and water samples, the reporting limit for volatile organic compound analysis and petroleum volatile organic compound analysis shall be the method detection limit for the analytical method used. If the results are less than the method detection limit, the results shall be reported as less than the method detection limit, rather than no detect. Qualifiers used for the data shall also be reported.

Note: Section NR 140.16 (2) (c) requires that the analytical method selected meet one of the following criteria: 1) has a limit of detection and limit of quantitation below the preventive action limit or 2) produces the lowest available limit of detection and limit of quantitation if the limit of detection and limit of quantitation are above the preventive action limit. In addition, s. NR 140.14 (3) specifies whether a standard has been attained or exceeded if a preventive action limit or enforcement standard is equal to or less than the limit of quantitation.

Note: Chapter NR 720 specifies whether a soil cleanup standard has been exceeded if the standard is at or below the limit of quantitation.

(9) Responsible parties shall ensure that drinking water samples are collected, handled and analyzed according to the procedures specified in ch. NR 809.

(10) Responsible parties shall ensure that groundwater samples are collected and handled according to the procedures specified in s. NR 140.16 (1), unless the department approves the use of an alternative procedure. The department may approve the use of an alternative procedure from one of the authoritative sources listed in ch. NR 149 Appendix III, or an alternate test procedure approved by the U.S. EPA, or, if the department determines that an appropriate procedure is not available, from another source. Alternative procedures may include the most recent published method, or an older published version deemed acceptable by the department on the basis of the objectives of the data collection. Responsible parties shall select an analytical method that is suitable for the matrix, type of analyte, expected level of analyte, regulatory limit, and potential interferences in the sample to be tested.

Note: Examples of suitable analytical methods for VOCs and PVOCs in groundwater include EPA methods 5030B/8260B, EPA Method 8310 or 8270C-SIM or 8270D-SIM for PAHs, EPA method 3510C/8082A or 3520C/8082A for PCBs, EPA Method 3020A/6020A or 3010A/6020A for Pb, EPA Method 3020A/6020A for Cd, and EPA Method 1664 (Revision B) for oil and grease.

(11) Soil samples collected for analysis of volatile organic compounds for compliance with chs. NR 700 to 754 shall be pre-

served immediately after collection to minimize volatilization of contaminants from the sample to the greatest extent possible. Preservation techniques used shall be according to the analytical method to be used. Sampling techniques shall be used that minimize volatilization from the sample. Extraction techniques shall be according to the analytical method selected. Analytical methods used shall be suitable for the matrix, type of analyte, expected level of analyte, regulatory limit, and potential interferences in the samples to be tested.

Note: Suitable preservation, extraction and analytical methods include those found in method SW 5035A in "Test Methods for Evaluating Solid Waste (SW-846)," and in the "Modified GRO, Method for Determining Gasoline Range Organics" (GRO for screening purposes). Other techniques may be found in the List of Authoritative Sources, ch. NR 149 Appendix III.

(12) Responsible parties shall ensure that other samples taken for analysis are collected, handled and analyzed according to the procedures specified in "SW-846: Test Methods for Evaluating Solid Waste", "The Third Edition of SW 846, as amended by Final Updates I, II, IIA, IIB, III, IIIA, IIIB, and IV," published by the U.S. EPA, unless the department approves the use of an alternative procedure. The department may approve the use of an alternative procedure from one of the authoritative sources listed in ch. NR 149 Appendix III, an alternate test procedure approved by the U.S. EPA, or, if the department determines that an appropriate procedure is neither available from "SW-846: Test Methods for Evaluating Solid Waste" nor from one of the authoritative sources listed in ch. NR 149 Appendix III, from another source.

Note: Copies of "SW-846: Test Methods for Evaluating Solid Waste" are available for inspection at the offices of the department of natural resources, the secretary of state, and the revisor of statutes. Copies may be obtained from the Government Printing Office, Room 190, Federal Building, 517 East Wisconsin Avenue, Milwaukee, WI 53202 and may be accessed at the following web site: <http://www.epa.gov/epaoswer/hazwaste/test/main.htm>. Other suitable procedures may include revised SW-846 methods found at the EPA Office of Solid Waste Methods Web Site.

(13) Responsible parties shall collect samples and provide an analysis for the geochemical indicators and parameters, where natural attenuation is potentially a remedy or part of a remedy. These may include dissolved oxygen, nitrate, dissolved manganese, total and ferrous iron, sulfate and methane, alkalinity, oxidation reduction potential, pH, temperature, and conductivity.

(14) (a) Responsible parties shall inspect monitoring wells installed for field investigations conducted under this chapter at least annually to verify the integrity of the well labels, lock and seal, and to determine whether the wells are providing a conduit to the subsurface, and shall take action to repair or abandon the well if necessary in accordance with ch. NR 141.

(b) Flush mounted wells shall include a magnet placed in the void between the cover and the annular space seal. In cases where flush-mounted wells are not used, wells installed in areas potentially subject to damage from vehicle traffic shall include appropriate protective traffic posts next to the well.

Note: Traffic posts can vary in design. Normally, properly anchored concrete filled metal posts should be used to protect wells. The magnet may aid in locating wells for abandonment.

(15) Responsible parties shall measure and record to the nearest 0.01 foot the static water level elevation in each groundwater monitoring well prior to obtaining a groundwater sample from the well. The measurement point shall be the top of the well casing and shall be identified on the well itself if the top of the casing is not level.

Note: Section NR 141.065 (2) requires that the top of the well casing be referenced to the nearest benchmark for the national geodetic survey datum to an accuracy of 0.01 feet.

(16) Where site investigation data or other information indicate it is appropriate, or when directed to do so by the department, responsible parties shall make a good faith effort to sample public or private water supply wells as part of a regular monitoring program or to determine the extent of groundwater contamination, or both. Private and public water supply wells to be sampled shall include:

(a) Those wells that are known or suspected to be affected by the groundwater contamination.

(b) Other wells that the department determines have the potential to be affected by the groundwater contamination.

(17) If the responsible parties are unable to sample a public or private well because the property owner refuses access, the responsible parties shall notify the department within 30 days of the refusal, and shall document in writing the efforts undertaken to gain access when requested by the department.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; CR 12-023: r. and recr. Register October No. 694, eff. 11-1-13.

NR 716.14 Sample results notification requirements. (1) **SAMPLES FROM WATER SUPPLY WELLS.** Responsible parties shall report all water supply well sampling results to the department and to the well owner, and occupant as applicable, within 10 business days after receiving the sampling results. The report to the department shall include the Wisconsin unique well number for drinking water wells, a preliminary analysis of the cause and significance of any contaminant concentrations observed in the samples and an identification of any substances that attain or exceed ch. NR 140 preventive action limits, as well as any other substances observed in the samples for which there are no ch. NR 140 groundwater quality standards. The responsible party shall notify both the remediation and redevelopment project manager and the regional drinking and groundwater specialist or water supply engineer of all water supply well sample results.

Note: The appropriate remediation and redevelopment project manager can be determined for the site in question at <http://dnr.wi.gov/topic/Brownfields/documents/rrr/county.pdf>. The appropriate regional drinking and groundwater specialist or water supply engineer can be determined by viewing the staff listing at <http://dnr.wi.gov/topic/DrinkingWater/contact.html>.

Note: The department will provide information to well owners of the results of sampling in accordance with manual code 4822.1.

(2) **SAMPLES FROM OTHER MEDIA.** Responsible parties shall report all sampling results other than those for water supply wells, to the department and to the property owner, and occupants as appropriate, of the property from which the samples were collected, including the source property owner if the person conducting the investigation is not the property owner, within 10 business days of receiving the sample results.

(a) The report to the department shall include a preliminary analysis of the cause and significance of any contaminant concentrations observed in the sample, a list of names and addresses of those receiving a sampling notification, and the date of the sampling event and mailing.

(b) The written notification to an affected property owner, and occupant as appropriate, shall include information about how additional information may be obtained, in accordance with s. NR 714.05 (5). The department may waive the notification of occupants in limited situations, upon request.

(c) In addition, the notification to the property owners, and occupants as appropriate, shall include all the following information, in a letter or using a form provided by the department:

1. Responsible party name, address, and phone number.
2. Site name and source property address.
3. Department BRRTS number.
4. Department contact person name and phone number.
5. Reason for sampling, which may include routine sampling, and sampling to determine an immediate health concern, including the ingestion, inhalation, and dermal contact pathways.
6. Contaminant type.
7. Sample type, which may include groundwater, soil, sediment, soil vapor, outdoor or ambient air, and indoor air.
8. A map showing the sampling locations, which meets the requirements of s. NR 716.15 (4).
9. Collection date, specific contaminant levels per location, and whether the sample results attain or exceed state standards. A data table shall be used when multiple sample results are included.

10. A copy of the results from the laboratory attached to the notification.

Note: Notification of sampling results is intended for those samples taken from a property including results from both routine and long-term monitoring and those of a more immediate health or welfare concern to a property owner, or occupant as appropriate. Examples of sampling to determine the presence of an immediate public health or welfare concern are from potable wells, indoor air, surface soil, and soil vapor beneath an occupied structure. "All sampling results" means the results that show detections of contaminants as well as those that do not show detections.

Note: Assistance in evaluating the impact and meaning of the sample results may be requested of the department project manager or drinking water staff, or from staff with the Division of Public Health, with the Department of Health Services.

Note: The notification to occupants is not intended for situations where there are multiple units or a frequent change in occupancy.

Note: The form on which to provide sample results, "Sample Results Notification," Form 4400-249, can be found at <http://dnr.wi.gov/topic/Brownfields/Pubs.html>.

(3) The department may approve of a different notification schedule on a case-by-case basis.

Note: In cases where routine monitoring is conducted, and where results are not expected to be of immediate health or welfare concern, the department may consider other schedules, such as quarterly or with the semi-annual status reports to be sufficient.

(4) The responsible party shall take the actions necessary to ensure any new occupants are also informed of the pertinent information required under s. NR 716.14 (2) (c).

History: CR 12-023; cr. Register October No. 694, eff. 11-1-13.

NR 716.15 Site investigation report. (1) REPORT REQUIREMENT. (a) *Timeline.* Unless otherwise approved by the department, responsible parties shall submit a site investigation report to the department within 60 days after completion of the field investigation and receipt of laboratory data.

(b) *Number of copies.* One paper copy and one electronic copy of the report shall be submitted to the department, unless otherwise directed by the department, in accordance with s. NR 700.11 (3g).

Note: Electronic copies should be submitted in the Adobe Portable Document Format (PDF) on optical disk media. Guidance on electronic submittals can be accessed at <http://dnr.wi.gov/files/PDF/pubs/tr/RR690.pdf>.

Note: The department strongly recommends the use of 2-sided copies for the paper copy of the report, and the use of accordion folders for larger reports instead of 3-ring binders, to help address file space issues.

(2) **REPORT CONTENTS.** The site investigation report shall include all of the following information required under this subsection, and under subs. (3) to (6):

(a) *Cover letter.* A letter referencing the department's identification number for the site or facility and stating the purpose of the submittal and the desired department action or response.

(b) *Executive summary.* A brief narrative describing the site investigation results, conclusions and recommendations for future actions, and the certification required under s. NR 712.09.

(c) *General information.* 1. Project title and purpose.

2. Name, address, e-mail address, and telephone number of the present property owner, lessee, operator, and any individual or company responsible for the contamination.

3. Name, address, e-mail address, and telephone number of any consultants or contractors involved with the response action at the site or facility.

4. Site or facility name, address, and location by quarter-quarter section, township, range, and county, along with the Wisconsin Transverse Mercator coordinates for the site. The location of the property and the contamination shall be given in sufficient detail to allow department personnel to inspect the property and the contaminated area.

Note: The requirements for locating monitoring wells are contained in s. NR 141.065. Specifically regarding areal location, this section requires that the wells be shown on a plan map with a grid system that is located according to latitude and longitude, or according to a state plane coordinate system. The plan map must show the exact location of the installed well on a horizontal grid system which is accurate to within one foot.

5. Location maps which meet the requirements of sub. (4).

6. In addition to any other site layout maps, one site layout map which depicts the site's property boundaries, named and

unnamed roads or access points, surface water features, underground utilities, buildings, public and private wells, land uses on adjacent properties, and known and potential hazardous substance sources.

7. The geographic positions of all properties within and partially within the contaminated site boundaries, which have been directly located or interpolated from other features on a base map of 1:24000 scale or finer, or which were obtained using differentially corrected global positioning system data or another method of similar or superior accuracy that have been approved by the department. The geographic position data shall be obtained and submitted to the department in accordance with the requirements in sub. (5) (d).

(d) *Background information.* Descriptions of the following:

1. Activities or events at or near the site or facility which had the potential to affect public health, safety, or welfare or the environment, including time, duration, type, and amounts of hazardous substance discharges.

2. Any previous discharges or response actions and the relevant dates.

3. Response action activities to date, with references to any previous reports concerning response action activities on the site or facility.

4. Any other information relevant to the response action.

(e) *Methods of investigation.* Descriptions of investigative techniques used to characterize the site or facility, including subsurface boring and probe methods; monitoring well construction, installation, and development procedures; well and aquifer testing methods; modeling techniques; sample collection, handling, and analysis techniques; and leak detection methods. Where procedures were performed in accordance with methods described in a work plan for the same investigation that was previously submitted to the department or in exact accordance with published departmental guidance, the site investigation report may omit detailed descriptions by referring to the work plan or the departmental guidance in which the methods were described. Where procedures differed from methods described in the work plan, the site investigation report shall include a description of the procedures used.

(3) **RESULTS.** The site investigation report shall include a detailed narrative description of the results of the site investigation, references to all appropriate visual aids under sub. (4), and shall include all of the following:

(a) The information collected during the scoping stage of the investigation conducted pursuant to s. NR 716.07.

(b) A description of the sequence of activities that took place during the site investigation.

(c) All field measurements, observations, and sampling data generated during the site investigation, including data from non-laboratory sample analyses. Laboratory data shall include laboratory name, location from which each sample was obtained, date each sample was obtained, date each sample was extracted and analyzed, analytical method used by the laboratory, parameters tested for, the method detection limit, the analytical result for each sample, and whether other compounds not specifically tested for were observed in significant quantities. Relevant and significant sample results and field measurements shall be compiled in tabular form and at corresponding sampling locations noted on a site layout map.

(d) Where laboratory results are significantly inconsistent with field observations or non-laboratory method results, a clear evaluation of the reason for the inconsistency and an indication of whether resampling or additional quality control procedures are needed.

(e) For sites or facilities with 3 or more water table observation wells, a discussion of the depth to the water table, groundwater flow directions, rates, and any variations.

(f) A discussion of the stratigraphy of the site. Identify soil and rock types at the site and the contaminant source location. Include a description of moisture contents, high and low water table elevations, and the location of any smear zone.

(g) A discussion of the contaminants and impacts on each environmental medium.

(h) Interpretations of the data generated at the site or facility sufficient to characterize the geologic and hydrogeologic characteristics of the site or facility, the areal and vertical degree and extent of hazardous substances in all environmental media, and the impacts of the contamination to all potential receptors.

(i) The hydraulic conductivity of materials where contaminated groundwater is found.

(4) VISUAL AIDS. The site investigation report shall include all maps, figures, tables, graphs, photographs, and completed forms that are necessary to clarify and support results and interpretations. Visual aids shall present information in legible formats, shall be referenced in the report text, and shall meet all of the following requirements:

(a) *General Requirements.* Maps, plan sheets, drawings, cross sections and fence diagrams shall:

1. Be of appropriate scale to show all required details with sufficient clarity.

2. Have a figure number, title, north arrow, and legend of all symbols used, contain graphic horizontal and vertical scales, specify drafting or origination dates, and indicate the source if not an original design.

Note: The source means the company or name of the original preparer of the visual aid.

3. Use national geodetic survey data as the basis for all elevations.

4. Use a distinguishing symbol, such as a dashed line or question mark, to depict inferred or questionable data.

(b) *Water table and potentiometric surface maps.* For water table maps and potentiometric surface maps, depict water level elevations measured on the same day, indicate the date of measurement on the map, and indicate apparent flow direction.

1. For sites or facilities with 3 or more water table observation wells, include a map depicting the elevation of the water table and the apparent direction of groundwater flow, with additional water table maps as necessary to depict significant variations in water table elevation or groundwater flow direction.

2. For potentiometric surface maps, additionally depict measurements taken from piezometers with similar screen lengths that intersect the same geologic zone and depth, and indicate any vertical gradients as well as the location and type of any confining layers. For sites with 3 or more piezometers, include a potentiometric surface map, with the apparent direction of groundwater flow, with additional potentiometric maps as necessary to depict significant variation in levels or flow direction.

(c) *Isoconcentration maps.* For isoconcentration maps, depict the hazardous substances, concentrations, the environmental medium, the date measured and the unit of measurement. Submit isoconcentration maps of hazardous substance concentrations in each environmental medium, as appropriate to the scope and complexity of the site and where sufficient data are available to estimate meaningful isoconcentrations. For groundwater, use the appropriate groundwater elevation map as the base map.

(d) *Cross sections.* For sites or facilities with 2 or more soil borings, include one or more geologic cross sections.

1. Cross sections shall include a reduced inset diagram of the site layout map indicating the location of the cross section transect, and shall indicate the dates of measurements, stratigraphy, screened intervals of monitoring wells, and water table surface.

2. Include the locations of any confining units; the contaminant source location, vertical and horizontal extent of contamination in both soil and groundwater, and highest and lowest water table and piezometric elevations and screen lengths, as applicable.

(e) *Tables.* Tables shall meet all of the following requirements:

1. Include a table number, title and an explanation of any footnotes marked in the body of the table.

2. Include units of measurement when displaying measured data. When an environmental standard exists for the contaminant, the unit of measurement shall be the same as that used by the department to express the environmental standard.

3. Indicate measurement or sample collection date when displaying measured data or data derived from sampling.

4. Indicate which results equal or exceed environmental standards when displaying analytical results of tests on environmental media for which standards exist.

5. Indicate depth and soil type for soil sample summary tables.

6. For groundwater elevation tables, indicate each well's top and bottom screen elevation.

(f) *Photographs.* Photographs shall be in color, of sufficient size to clearly represent the purpose of the photograph, and shall be labeled by the date, orientation and topic.

(g) *Well and borehole documentation.* All forms shall be completed in accordance with the directions for the applicable form. All of the following department forms, shall be used, where applicable to the site or facility:

1. 4400-89, groundwater monitoring well information.

2. 4400-113A, monitoring well construction.

3. 4400-113B, monitoring well development.

4. 4400-122, soil boring log information.

5. 3300-5B, well/drillhole/borehole abandonment.

Note: Copies of these well and borehole documentation forms may be obtained from the following internet sites:

http://dnr.wi.gov/topic/Groundwater/documents/forms/4400_89.pdf,

http://dnr.wi.gov/topic/Groundwater/documents/forms/4400_113_1_2.pdf,

http://dnr.wi.gov/topic/Groundwater/documents/forms/4400_122.pdf,

<http://dnr.wi.gov/topic/DrinkingWater/documents/forms/3300005.pdf>

(h) *Well construction permits.* Any department of transportation well construction permit for a well, constructed in a right-of-way, shall be submitted with the well construction form.

(5) DEED AND LOCATIONAL INFORMATION. All of the following information shall be included in the site investigation report for each property within or partially within the contaminated site boundaries:

(a) A copy of the most recent deed, which includes the legal description.

(b) A copy of the certified survey map or the relevant portion of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.

(c) The parcel identification numbers for each property.

(d) Geographic position. All geographic position data shall be obtained and submitted to the department in the site investigation report in accordance with the following requirements:

1. 'Format.' For properties that are not more than 200 feet wide or long, a single point geographic position shall be obtained at least 40 feet within the boundaries of the property, or as close to the center of the property as possible if the property is less than 80 feet wide or long. For properties that are more than 200 feet wide or long, coordinates describing the approximate location of the property's boundaries, forming a polygon, shall be obtained.

2. 'Coordinate system.' Geographic position data shall be originally collected in Wisconsin Transverse Mercator '91 or projected onto Wisconsin Transverse Mercator '91.

Note: Information about the Wisconsin Transverse Mercator '91 projection is available on the internet at <http://dnr.wi.gov/maps/gis/wtm8391.html>.

3. 'Acceptable methods.' Acceptable methods for obtaining geographic position data include direct location or interpolation from other features on a base map of 1:24000 scale or finer, differentially corrected global positioning system data, or other methods capable of similar or superior accuracy that have been approved by the department.

4. 'Required information.' The following information is required for all properties: the name of the county where the property is located, the collection method used, and the scale or resolution of original source of geographic position for on-screen digitizing.

(6) CONCLUSIONS AND RECOMMENDATIONS. The site investigation report shall include a summary of the results from the site investigation, and recommendations for further response actions necessary to protect public health, safety, and welfare and the environment, and to meet the requirements of chs. NR 700 to 726.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; r. and recr. (1), r. (2), renun. (3) to be (2), Register, April, 1995, No. 472, eff. 5-1-95; emerg. am. (1), cr. (2) (g) 9., eff. 5-18-00; r. and recr. (1), cr. (2) (g) 9., Register, January, 2001, No. 541, eff. 2-1-01; CR 00-111; renun. (2) (j) to be (2) (L) and cr. (2) (d) 7., (j), and (k), Register October 2001 No. 550, eff. 11-1-01; CR 12-023; r. and recr. Register October No. 694, eff. 11-1-13.

NR 716.17 Additional requirements. (1) When warranted by the complexity of the site or facility or the severity of the actual or potential environmental or public health impacts which

may be caused by the contamination, the department may impose additional site investigation requirements upon responsible parties beyond those specifically described in this chapter. The department shall communicate any additional investigation requirements to the responsible parties in writing and shall explain why the additional requirements are needed.

(2) The department may require that treatability studies be conducted as part of the site investigation, where appropriate for the purpose of demonstrating that an interim action or remedial option will meet the remedy selection criteria in ch. NR 708 or 722.

(3) When a site investigation conducted under this chapter indicates that an immediate, interim or remedial action is necessary, the responsible parties shall identify, evaluate and select an immediate or interim action in accordance with ch. NR 708 or a remedial action in accordance with ch. NR 722.

(4) When a site investigation conducted under this chapter indicates that, based on the criteria in s. NR 726.05, no further action is necessary to protect public health, safety, or welfare or the environment, the responsible parties may request that the department close the case in accordance with ch. NR 726.

History: Cr. Register, April, 1994, No. 460, eff. 5-1-94; am. (2) and (3), Register, April, 1995, No. 472, eff. 5-1-95; CR 12-023; am. (4) Register October No. 694, eff. 11-1-13.

Wentland, Thomas A - DNR

From: Wentland, Thomas A - DNR
Sent: Wednesday, May 20, 2015 1:14 PM
To: Valentin.Pablo@epamail.epa.gov
Cc: Foss, Darsi J - DNR; Mylotta, Pamela A - DNR (Pamela.Mylotta@wisconsin.gov); Norman, Michele R - DNR; Pappas, Victor C - DNR (Victor.Pappas@Wisconsin.gov); Tom Short; Frey, Rebecca; Rick Nagle
Subject: Sheboygan River - Maryland Ave Sediment Pad Decommissioning Report
Attachments: 2011 Remedial Action Work Plan.pdf; 2006 Remedial Action Work Plan.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Pablo,

I have reviewed the Sediment Pad Decommissioning Report (SME Report) prepared by Keith Egan of Soils and Materials Engineers (SME) as well as the comments from CH2MHill. Hill's comments point out various items in the SME Report that need to be corrected and we agree with the comments but in general it is difficult to comment on the report since it is a after the fact summary of what happened and also somewhat confusing. I do not recall seeing an approved Work Plan for the decommissioning of the dewatering pad. Rather than go back and forth with comments and corrections to the SME Report I strongly recommend that EPA not approve the SME Report since it is not in compliance with an approved scope of work. EPA should direct Pollution Risk Services and Keith Egan to provide a report that complies with the Scope of Work that is contained in the March 2011 Sheboygan River & Harbor Superfund Site, Lower River, Remedial Action Work Plan (RAWP) that was approved by EPA. The Scope of Work can be found on Page 8, Section 5.0 of the RAWP. (copy attached). I am afraid that if EPA approves the SME Report no further investigation and, if necessary, remediation of the Maryland Site will be conducted.

I realize the SME Report addresses only the Maryland Site but the same procedure would apply to the Sheboygan Falls Site. There is an EPA approved Remedial Action Work Plan for this site dated October 2006 (copy attached) which includes a procedure for site decommissioning. That procedure can be found on Page 9, Section 3.0.

Both of these approved Remedial Action Work Plans call for an investigation and, if necessary, remediation in accordance with Wisconsin Administrative Code, Chapter NR 700 series requirements.

It has also been brought to my attention that the Maryland site has a restricted plant species present (Japanese knotweed) and transport/disposal is regulated by Wisconsin Administrative Code, Chapter NR 40. We know that some of the soil that was removed from the site had the knotweed growing in it. Since soil and other material has been removed from the site without an approved plan the material could have been disposed of improperly. To avoid this in the future the work plan for the site should include an evaluation of plant species to determine the proper means of disposal.

It may be helpful to have a meeting with Keith Egan and Pollution Risk Services to explain what is required by the approved plans for the site.

Thanks for giving me an opportunity to comment, hope to hear from you soon.

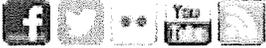
We are committed to service excellence.

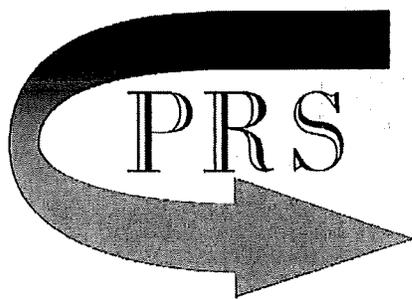
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

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Pollution
Risk
Services

**Sheboygan River & Harbor Superfund Site
Lower River**

RAWP

March 2011

Remedial Action Work Plan
Sheboygan River and Harbor Superfund Site
Sheboygan County, Wisconsin

March 2011

Prepared By

Pollution Risk Services, LLC



5.0 DE-MOBILIZATION

5.1 *Scope of Work*

The De-mobilization defined work activities are the actions/resources necessary to remove equipment from the river operation, remove the equipment from the de-watering area, and restore the respective areas to the appropriate condition.

Dredging Equipment De Mobilization

The dredge, booster pumps, and maintenance boat will be removed from the river with a crane located at the access east of the boat ramp off of 14th Street near Station 630+00. This area is property owned by the City of Sheboygan. To prepare for the river access, the City of Sheboygan Deputy Director of Public Works has granted PRS river access. Photographs from the mobilization activities will be used to establish the appropriate or needed restoration. Boats will be removed from existing boat ramps located near the 14th Street and 8th Street bridges.

The 8" HDPE Pipe will be removed from the river at the de-watering area, size reduced into manageable lengths, and removed. Again, the mobilization photographs will be used to set the appropriate restoration activity standard.

Dewatering Operation

The dredge slurry operation de-mobilization defined work activities are:

- Dewatering pad will be scraped, broom brushed to clean of PCB sediment, and visually inspected before dismantling. The Preparatory Phase Meeting for the De-mobilization definable work feature will finalize further issues, future use, or requirements.
- Removing, sampling, and disposing of the asphalt and hard fill from the de-watering pad footprint
- Dismantling and removing wastewater treatment plant (WWTP)
- Removing de-watering area fencing
- Dismantling and removing job trailer
- A site assessment in conformance with Wisconsin Administrative Code, ch. NR 700 (NR 700) will be performed on the entire dewatering area property, including paved and unpaved areas. If soil or groundwater contamination is discovered, soil and groundwater will be remediated in conformance with NR 700. Site assessment will include sampling for PCBs, PAHs, and Resource Conservation and Recovery Act (RCRA) heavy metals. If final remediation includes a protective cap, a cap maintenance plan shall be developed in accordance with NR 700.
- Post-construction site survey will be conducted to demonstrate that no changes to the floodplain have occurred and the requirements of NR 116 have been met.

5.2 *Performance Standards*

Performance standards are described below for the de-mobilization.

Remedial Action Work Plan
Sediment Removal
Sheboygan River and Harbor Superfund Site
Sheboygan County, Wisconsin
October 2006

Prepared By

Pollution Risk Services, LLC



3.0 DEMOLITION OF THE DEWATERING FACILITY

The staging/dewatering area is not a permanent structure. Once dredging and excavation operations have ceased, the Geotubes have achieved final dewatering, and the Geotubes and the material they contain have been removed for transport and disposal, demolition of the facility will commence. The Asphalt will be scraped and cleaned. When the determination is made that the dewatering pad has no further use (i.e. Sediment Removal is completed), the asphalt, concrete, and underlying soil will be removed, sampled, and disposed under the guidelines from the State. Concurrently with the dewatering pad removal, the CTF will be demolished. The end use of the property will be determined based on the clean-up criteria established by the State.

Remediation Project Team will perform final backwash and removal of media from the sand filtration units and activated carbon filtration units. The media within the units will be collected, sampled, and disposed at the appropriate landfill. The units and associated pipes, manifolds, and valves will be cleaned, dismantled and stored on-site or at an off-site facility.

The treatment system will not be demobilized until all major activities have been completed. Any water created after the treatment system is demobilized will be collected, contained, and disposed off-site.