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Subject: Tower Avenue Slip Historical Data Review Technical Memorandum
Superior Slips, St. Louis River Area of Concern
Superior, Wisconsin

1. Introduction

AECOM Technical Services, Inc. (AECOM) has prepared this technical memorandum in accordance with Task 3-Existing Data and Review guidelines provided in the Wisconsin Department of Natural Resources' (WDNR) request for proposal (RFP) and Scope of Work (SOW) (WDNR, 2022). This technical memorandum has been prepared for the WDNR under the United States Environmental Protection Agency (USEPA) Great Lakes Restoration Initiative (GLRI) grant (USEPA GLRI Grant No. GL-00E03068). As detailed in the WDNR RFP and SOW, AECOM is to review existing data for each project site within the St. Louis River Area of Concern (SLRAOC), compile this information, and format the available data, as necessary. The project areas under Task 3 include C Street Slip, Tower Avenue Slip, General Mills Slip, and Oil Barge Dock Slip. The selected project areas are located along the right descending bank of the St. Louis River in Superior, Wisconsin. This technical memorandum will focus on the data review for the Tower Avenue Slip. See **Figure 1** for the site location. Historical data review results for all other project areas will be summarized in subsequent memorandums as detailed in the WDNR RFP and SOW (WDNR, 2022).

2. Site Description and History

2.1 Site Description and Historical Use

The Tower Avenue Slip investigation area (TA Slip) is located on the Wisconsin side of the St. Louis River within Saint Louis Bay near the confluence with Lake Superior. Various aliases have been used for the slip in documents such as the Tower Bay Slip, CHS, and Barco Slip and currently is named the Tower Slip. WDNR has chosen to use the name "Tower Avenue Slip" to refer to the current investigation area. The TA Slip is a 13-acre area served by the federal navigation channel in Howards Bay. It is bordered by Howards Bay to the north, CHS Inc. to the east, Globe Elevator Dock Slip and Barko Hydraulics to the west, and a railroad right-of-way to the south. The TA Slip and the area surrounding the slip are within the City of Superior, Douglas County, Wisconsin.

Today, the area comprises a mix of commercial, retail, and industrial properties with docks located on the northern portion of the area. This slip is currently used for loading grain at the CHS terminal (east) and for loading tree trimming and harvesting equipment manufactured at the Barko Hydraulics facility (west). Additionally, the slip serves as an outfall for six municipal storm sewer drains. Water depths vary from 1-foot in calm areas to 40-feet where scour from ship propellers occurs. Refer to **Figure 2** for the current layout of area surrounding the TA Slip.

Historically, the area surrounding the TA Slip comprised of small to mid-sized industrial facilities, including foundries, smelters, and railcar repair operations. The area also comprised of mid-sized to large bulk storage operations along the shoreline and on the docks, including storage of coal, oil, lime, and grain (SIGMA, 2019a). The TA Slip historically contained three main docks, the Globe Elevator Dock, the Paper Calmenson Dock (currently the Barko Hydraulics Dock), and the CHS Dock. The TA Slip was bordered by the Paper Calmenson Dock to the west and the CHS Dock to the east.

Historical documents indicate that prior to the 1880s, the northern section of the TA Slip was marshland surrounding what used to be called Tower Bay Slip. The north shore was roughly in line with the present-day north side of Barko Hydraulics. In 1887-1888, the Globe Elevator Dock was filled to its current length. In the 1890s, the marshland north of present-day Barko Hydraulics was filled, the area north of the marshland was dredged, the west shoreline of Tower Bay was filled to form Tower Slip, and the CHS Dock was constructed. Since the 1930s, the Globe Elevator Dock has eroded, with up to 50 feet of recession in sections. Refer to **Figure 3** for a map which shows the historic shoreline as of 1887 and the approximate area of the filled marshland area north of Barko Hydraulics.

2.2 Historical Assessment Activities

Site assessment activities related to the Tower Avenue Slip have been conducted from 1993 through 2022 by the following companies:

- Minnesota Pollution Control Agency (MPCA) on behalf of the USEPA,
- WDNR,
- EA Engineering, Science, and Technology, Inc (EA) on behalf of the USEPA,
- EA on behalf of WDNR,
- The SIGMA Group (SIGMA) on behalf of the WDNR, and
- AECOM on behalf of the WDNR.

Generally, sediment data collected from the slip has been compared to Wisconsin's Consensus-Based Sediment Quality Guidelines (SQG) Threshold Effect Concentration (TEC), Midpoint Effect Concentration (MEC), and Probable Effect Concentration (PEC). Site assessments and investigations that have been conducted to date at the Tower Avenue Slip will be discussed further in the following sections.

2.2.1 1997 Sediment Assessment of Hotspot Areas in the Duluth/Superior Harbor

In December 1997, the MPCA submitted the Sediment Assessment of Hotspot Areas in the Duluth/Superior Harbor (MPCA, 1997) to the USEPA that detailed the 1993 general desktop assessment of the SLRAOC and the results of a more in-depth sediment investigation in 1994. The 1993 desktop review identified the hotspot areas, which included the Howard's Bay area. In 1994, an in-depth sediment investigation occurred that included an assessment of sediment contamination, toxicity, and benthic community assessment (referred to as "1994 Investigation" in this memo).

During the 1994 Investigation, sample locations were selected using a stratified sampling approach where locations were chosen at random within an established grid system. The grid size would adjust based on the size of the area that needed to be sampled. Locations were predetermined before sampling, and GPS coordinates were used to guide the vessel to a sampling position. To collect shallow samples (5 cm or less) a gravity-core

sampler (similar to a ponar) was used to sample benthos, toxicity, and surficial chemistry. To sample sediments deeper than 15 cm, a vibracore sampler was used. Benthos samples were collected first, using the gravity-core as to not disturb sediment. After benthos samples, several short gravity or vibracore samples were obtained at each site for surficial chemistry and toxicity (MPCA, 1997).

Only one sample location from this investigation was close enough in proximity to the Tower Avenue Slip to be relevant to this historic data review. The sample location in question was in the area identified as Howard's Bay. The location near the Tower Avenue Slip was identified as HOB-1 and was in the approximate center of Howard's Bay in between the Tower Avenue and Hughitt Slips. Chemical analysis for this sediment investigation included the metals arsenic, mercury and lead, Acid Volatile Sulfide (AVS), Simultaneously Extractable Metals (SEM), and total organic carbon (TOC) (**Table 1-1**). Particle size analysis was also completed on select locations. An additional toxicity study included a 10-day test on Hyalella Azteca and Chironomus tetans. Bethnic organism tests included an enumeration of organisms found in sediment samples. Sediment analytical results were screened against a No Effect Level (NEL), Lowest Effect Level (LEL), and Severe Effect Level (SEL), a set of guidelines used by the Ontario Ministry of Environmental and Energy (OMOEE) as general benchmark. At the time, no freshwater sediment criteria existed, therefore the OMOEE guidelines were utilized and had no regulatory implications. For this historical assessment, analytical results have been compared to WDNR SQGs (TEC, MEC and PEC).

Broadly, the Howard's Bay contaminants of concern included arsenic, lead, copper, nickel, zinc, and mercury. Arsenic was detected over the WDNR TEC in samples HOB-1(0-5) and HOB-1(5-20)VC. Lead was detected over the WDNR PEC in sample HOB-1(5-20)VC. While the sediment sample collected from 5-20 centimeters (cm) below the sediment surface (HOB-1(5-20)VC) was grossly contaminated with total lead, the corresponding SEM results were much lower. This indicated that much of the lead at this core location was not bioavailable.

The MPCA noted in their report that the Duluth portion of the harbor was generally more contaminated than the Superior portion of the harbor. General recommendations from the report authors were to conduct sediment remediation scoping projects at all identified hotspot sites, recommending a risk-based approach which utilizes local or regional sediment quality guidelines. (MPCA, 1997) Report writers also expressed the opinion that PAHs should be an important contaminant to include in any future surveys of the area due to historical coal pile storage areas and production of coal-powered ships in the TA Slip. Lastly, sediment transport modeling and contaminant loading studies were recommended to identify how any potential changes to the waterfront may affect circulation patterns and transport in the harbor. Contaminant loading studies were recommended by authors to calculate sediment transport from sewer overflows, stormwater runoff, and river creek discharges into the Duluth/Superior Harbors.

2.2.2 2016 Site Characterization Report Assessment of Contaminated Sediments Superior Waterfront Characterization, St. Louis River and Bay Area of Concern

On February 12, 2016, EA submitted the report titled Site Characterization Report Assessment of Contaminated Sediments Superior Waterfront Characterization, St. Louis River and Bay Area of Concern, Superior Wisconsin on behalf of the USEPA. The primary objective of this field investigation was to obtain the data necessary to assess the sediment quality in the Superior Waterfront area and to "evaluate the priority of each area for further assessment or remediation." Sampling areas were divided into the St. Louis Bay Area and Superior Bay Area (**Appendix A**). The Tower Avenue Slip, referred to in this document as "Tower Bay" is located within the St. Louis Bay Area. Sampling took place from the July 7 to July 20, 2015 (2015 Investigation).

A total of 59 surface sediment samples were collected using a Ponar grab sampler. A total of 55 sediment cores were collected using the vibracoring system onboard the R/V MudPuppy II vessel. Of locations sampled, 18 were within the St. Louis Bay Area. Of these, 9 locations were within the TA Slip. A surface sediment sample was collected at all 9 locations, while sediment cores were only advanced at 7 locations. The sample locations within the Tower Avenue Slip included SW15-SLB10 through SW15-SLB18 (**Figure 4**). Samples were submitted to TestAmerica in Burlington, Vermont and EA's Ecotoxicology Lab in Hunt Valley, Maryland. Samples were analyzed for: SEM/AVS, grain size, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs),

Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), organotins, pesticides, TOC, Target Analyte List (TAL) metals, mercury, dioxins/furans, and percent moisture (**Table 1-2**).

Analytical data were submitted to a subcontracted data validator, Meridian, for 100 percent Tier I and 20 percent Tier II data validation as specified in the Great Lakes Legacy Act Data Reporting Standard (Version 1.0, March 2010). EPA conducted a third-party manual validation on a subset of data and analyses. EA provided an updated dataset and the validation narratives to EPA's contractor CB&I. CB&I's third-party review involved 100 percent of the data undergoing a Tier 1 validation, and 5–20 percent of the data manually validated at Tier 2 (EA, 2016).

Analytical results from the 2015 Investigation were compared to the WDNR SQGs and are presented in **Table 1-2**. A general description of each core collected during the investigation is included in **Table 2.** The following observations were made based on AECOMs assessment of the analytical data and includes some observations made by EA (EA, 2016):

- The highest WDNR SQG exceedances were generally found in subsurface samples.
- PEC exceedances in surface sediments were focused closer to the shoreline.
- The greatest frequency of PEC exceedances during the 2015 Investigation occurred in the TA Slip.
- Almost all samples collected within the TA Slip exceeded one or more WDNR SQG for metals. The highest lead and mercury concentrations found in the TA Slip were detected at location SW15-SLB11.
- SW15-SLB11 and SW15-SLB13 grossly exceeded PECs for several SVOCs, at least two times the PEC.
- Several samples collected from locations SW15-SLB11 and SW15-SLB13 exceeded PECs for select PAHs by five times and two times the PEC, respectively.
- Several non-detects of VOCs, SVOCs, metals, and pesticides had elevated reporting limits above the PEC.
- The TEC for total PCBs was exceeded in 10 sediment samples collected from five locations (SW15-SLB11, SW15-SLB13, SW15-SLB14, SW15-SLB16, and SW15-SLB17).
- SW15-SLB17exceeded the MEC for tributyltin and SW15-SLB13 and SW15-SLB14 exceeded the PEC for tributyltin at concentrations two times the PEC.
- Toxicity testing of the surface sample of SW15-SLB14 found the sample to be toxic to both tested species for at least one of the parameters measures (survival, growth, or fecundity) (EA, 2016).

2.2.3 2021 Site Investigation Report Characterization of Sediments in the North End District and Clough Island St. Louis River and Bay Area of Concern, Superior, Wisconsin

In 2021, EA, on behalf of the WDNR, prepared a Site Investigation Report (SIR) to describe the 2020 Characterization of Sediments in the North End District and Clough Island. This work was funded through the GLRI via a cooperative agreement between the USEPA Great Lakes National Program Office (GLNPO) and the WDNR. The site characterization field effort involved sediment sampling in six assessment areas located within the North End District and Clough Island area, including the TA Slip. The SIR provided an overview of the sampling event, including geophysical survey activities conducted prior to sampling; the number of sample locations and samples submitted for laboratory analysis; results of physical and chemical testing; and results of toxicity and bioaccumulation testing.

Because the focus of this historical data review is the Tower Avenue Slip, only relevant information from this slip was pulled from the SIR and incorporated into this document. The geophysical surveying effort conducted in this SIR included precision multibeam bathymetric, sub-bottom profiling, and an acoustic dock wall survey. Geophysical survey activities occurred before sediment sampling, between April 27 and May 3, 2020. Sediment sampling began on June 22, 2020 and continued through July 4, 2020. Twenty-two sample locations were completed at the Tower Avenue Slip (**Figure 4**). Surface and core samples were collected at each of the 22 locations, with core samples collected up to 20 feet below the sediment surface. Samples were generally collected on 2-foot intervals. Refusal was encountered at seven locations (ND20-TB-07, TB-13 through 17, and

TB-21). Analytical samples were submitted to Eurofins Test America Laboratories in Burlington, Vermont and Pittsburgh, Pennsylvania (EA, 2021).

Each sediment sample was analyzed for the following: TAL metals including mercury, Target Compound List (TCL) SVOCs (including 18 PAHs), total organic carbon (TOC), grain size, and moisture content. Select samples were also analyzed for alkylated PAHs, TCL VOCs, dioxins/furans, organotins, PCBs, and microscopic analysis of coal particles. Select sediment samples were identified for toxicity testing based on limited historical data and consultation with the WDNR. Acute toxicity bioassays, chronic toxicity bioassays, and bioaccumulation exposures were conducted for these samples, using the 10-day *Chironomus riparius* test, the 28-day + 4-hour ultraviolet (UV) light *Hyalella azteca* test, and the 28-day *Lumbriculus variegates* test, respectively (EA, 2021).

Sediment concentrations were screened against the WDNR TEC, MEC, and PEC. See **Table 1-3** for the comparison of the analytical results against the WDNR SQGs. EA's SIR also compared sediment concentrations to default RCL non-industrial and industrial direct contact and soil to groundwater values and background threshold values per the EA 2020 Quality Assurance Project Plan (QAPP). Results within **Table 1-3** were not compared to these additional screening values, as AECOM's 2022 QAPP does not include these screening values; however, this memorandum includes EA's comparison to these screening values for historical reference.

In the TA Slip, organics (PAHs, PCBs, tributyltin) were detected in subsurface samples at the head through the middle of the slip with many of the exceeding applicable WDNR SQGs. In addition, metals including copper, iron, lead, mercury, silver, zinc exceeded the PEC in subsurface samples at these locations. Locations from approximately the midpoint of the slip to the outer extent showed generally lower concentrations of metals and organics, with the exception of samples located at the mouth of the slip and into Howards Bay. Five sample locations had one or more samples that exceeded the PEC for tributyltin, one being a surface sample and the rest ranging from 0.3 feet below the sediment surface (ftbss) to 4 ftbss (EA, 2021).

The sediment cores collected within the TA Slip had a mixture of core profiles. Most cores were characterized by a combination of silt and clay near the top with reddish brown very fine sand or fat clay at the bottom. Petroleum odors were noted in 7 of the 22 cores and a sheen was observed in one near the head of the slip. A general description of each core collected during the investigation is included in **Table 2.**

Reddish brown, high plasticity clay was observed at the bottom of six cores (ND20-TB09, ND20-TB13, ND20-TB14, ND20-TB15, ND20-TB19, and ND20-TB22). Medium brown or reddish brown, dense, very fine sand was observed at the bottom of 10 cores (ND20-TB01, ND20-TB02, ND20-TB03, ND20-TB04, ND20-TB07, ND20-TB10, ND20-TB11, ND20-TB17, ND20-TB18, and ND20-TB21) (EA, 2021).

In the Tower Avenue Slip cores, a sheen was observed in the core from ND20-TB01. A petroleum odor was noted in 7 cores (ND20-TB01, ND20-TB02, ND20-TB03, ND20-TB05, ND20-TB06, ND20-TB07, and ND20-TB11). Twelve cores contained layers that included wood pieces (ND20-TB01, ND20-TB02, ND20-TB04, ND20-TB06, ND20-TB07, ND20-TB08, ND20-TB10, ND20-TB12, ND20-TB13, ND20-TB20, ND20-TB21, and ND20-TB22) (**Table 2**).

Sediment in the Tower Avenue Slip contained organic matter, with TOC ranging from 0.2% to 12.1. TOC was not detected at one location. TOC results are included in **Table 1-3**.

Grain size data were collected from the surface interval at 22 locations in the Tower Avenue Slip. Samples were analyzed in accordance with Method ASTM D422. Of 22 submitted surface samples, 1 (5%) was primarily comprised (greater than 50%) of sand and gravel, and the remaining 21 samples (95%) were primarily comprised of silt and clay. Surface grab samples with the highest percentage of sand (65%), silt (52%), clay (61%), and gravel (6.9%) were collected at locations ND20-TB02-SURF, ND20-TB20-SURF, ND20-TB09-SURF, and ND20-TB14-SURF, respectively (EA, 2021). The surface samples within the Tower Avenue Slip generally had a higher silt/clay contents near the southern portion of the slip where the slip is lined on each side by land, than the rest of the slip.

Microscopic coal results show that the twelve surface samples at the Tower Avenue Slip ranged from 1% (ND20-TB10-SURF) to 9% (ND20-TB02-SURF) coal. Seven of the surface samples (ND20-TB01-SURF, ND20-TB03-

SURF, ND20-TB04, ND20-TB05-SURF, ND20-TB10-SURF, ND20-TB15-SURF, and ND20-TB20-SURF) had 2% coal or less. Eight microscopic coal samples were taken from a depth of 2 to 4 feet. Coal was detected in each of the eight samples and ranged from 1% (ND20-TB05 and ND20-TB10) to 7% (ND20-TB04). Two coal samples were taken at a depth of 8 to 10 feet and ranged from 5% (ND20-TB03) to 9% (ND20-TB02). For locations ND20-TB08, ND20-TB09, and ND20-TB10, percent coal was low (< 4%) from 2 to 4 feet and would be expected to be low at deeper depths based on lithology. For locations ND20-TB01, ND20-TB04, ND20-TB05, ND20-TB06, and ND20-TB07, percent coal was low (< 7%) from 2 to 4 feet but might be expected to increase with depth before decreasing again with depth based on lithology. Deeper layers at locations ND20-TB02 and ND20-TB03 would be expected to have low to not detectable levels of coal starting at a depth of 17.1 feet and 10.6 feet, respectively. The microscopic coal results are presented in **Appendix B**.

A total of 11 sediment samples were analyzed for dioxin/furans, in accordance with EPA Method 1613B. EA calculated dioxin fish toxic equivalencies (TEQs) (ND=½RL) for comparison to the SQG values (TEC, MEC, and PEC) and RCLs. The calculated dioxin fish TEQ results showed exceedances of the SQG values at each of the 7 locations sampled. Exceedances of the TEC occurred for 11 samples, exceedance of the MEC occurred for 7 samples, and the PEC guidelines were not exceeded. Additionally, EA's analysis included comparison of sample results to the RCL values; their SIR indicated that the soil to groundwater RCL was exceeded for 2,3,7,8-TCDD; the non-industrial RCL was exceeded for 1,2,3,7,8-PeCDD; and industrial RCLs were not exceeded (EA, 2021).

A total of 54 sediment samples were analyzed for organotins. Tributyltin is the only organotin with SQG values or RCLs. Organotin (tributyltin) results showed exceedances at 7 of the 13 locations sampled. The TEC was exceeded in 14 samples and the PEC was exceeded in 10 samples. PEC exceedances were observed at sample locations ND20-TB16, TB19, TB20, TB21, and TB22 within the TA Slip.

Bioaccumulation testing indicated that locations ND20-TB01, TB03, TB06, TB07, TB10, and TB15 had an adverse effect on *C. dilitus* survival in the 10-day sediment exposures. TB01 and TB06 had an adverse effect on mean ash-free dry weight growth of *C. diltus*. TB01, TB03, TB07, and TB10 had an adverse effect on *H. azteca* survival in the 280day sediment exposures. Overall, significant inhibited survival when compared to reference samples was observed at TB01, TB03, TB07, and TB10 for both *H. azteca* and *C. dilutus* (EA, 2021).

Bathymetry, sub-bottom profiling, and an acoustic wall survey was conducted on the Tower Avenue Slip to better understand the geology, lithology, and structures making up the slip. EA found that shallow water and debris prevent the complete coverage of the water body at the southwestern limits of the slip. Bathymetric analysis found that the topographic high points of 600 feet were detected at the northern end of the CHS Dock, which makes up the eastern border of the slip.

2.3 Historical Documents

Descriptions of historical activities were obtained from a review of available existing reports including the following:

December 1997:	Sediment Assessment of Hotspot Areas in the Duluth/Superior Harbor
February 12, 2016:	Site Characterization Report Assessment of Contaminated Sediments Superior Waterfront Characterization, St. Louis River and Bay Area of Concern, Superior Wisconsin
November 22, 2019:	Historic Records Screening Report: Historic Maps Supplemental Volume
November 22, 2019:	Shoreline Changes: Task Areas: Winter Street, Tower Avenue, Gas Plant
November 22, 2019:	Drainage Patterns: Task Areas: Winter Street, Tower Avenue, Gas Plant
November 22, 2019:	Historic Records Screening Report: Tower Avenue Task Area
June 17, 2021:	Site Investigation Report Characterization of Sediments in the North End District and Clough Island St. Louis River and Bay Area of Concern, Superior, Wisconsin

3. Conceptual Site Model

A Conceptual Site Model (CSM) generally includes information on known contaminant sources and impacted media, potential other sources, transport pathways, exposure pathways, and receptors. A preliminary CSM for the TA Slip was largely obtained from the 2021 EA Report (EA, 2021). The following description of the CSM will be updated, as necessary, as additional information is collected and reviewed.

3.1 Physical Site Characteristics

The following site characteristics were obtained from EA (EA, 2021) and are assumed to be reasonably representative of the area associated with the Tower Avenue Slip.

3.1.1 Bathymetry

Shallow water and debris (trees and anthropogenic) prevented complete coverage of the water body at the southwestern limits. Where the bathymetric data were presented as lakebed elevation values, the bottom topography relative to IGLD85 was derived. In general, the topographic high points of 600 feet were detected at the northern end of the CHS Dock, as well as along the banks at the headwaters of the slip. The lowest elevation within the slip (561 feet) was measured at the entrance to the slip in proximity to the northwestern corner of the CHS Dock. The topographic low was a bottom depression caused by propeller wash of larger, loaded ships entering or leaving the berth. The elevations on the western side of the slip centerline were generally higher due to considerable shoaling and the lack of a need to dredge that side of the slip.

3.1.2 Sub-bottom Profiling

Deposits of fine-grained material (silts) of varying thickness were detected at the sediment-water interface throughout the survey area. These lower density silts resided over mixed intervals of sand, silt, and clay that comprise a layer of sediment that has been periodically disturbed by dredging, vessel movements, and other industrial activities within the slip.

3.1.3 Acoustic Wall Survey

The west wall of the Tower Avenue Slip retains the fill material used to create the current Barko Hydraulics during its original construction in the late 1800s. The west wall appeared to consist of solid concrete above and below the waterline with little textural differences noted along the first 785 feet of the structure. In general, the wall surface residing under the waterline and behind the pilings appeared intact during the 2020 survey, while sections of the wall above the waterline displayed a considerable amount of deterioration and spalling over its length.

The east wall of the TA Slip retains the fill material deposited in the late 1880s and used to create the structure now known as the CHS Dock. The entire east wall is comprised of steel sheet pile, and with one exception, appeared to be intact and in good condition. The southeast wall of the Tower Avenue Slip retains the fill material used to create the base of the CHS Dock where it tied into the original Tower Bay shoreline and was comprised of concrete and timber. Similar to the west wall in the Oil Barge Dock Slip, the southeast wall in the Tower Avenue Slip appears to consist of a deteriorating concrete cap that was cast over the compacted fill material originally used to cover the freshwater marshland.

3.1.4 Drainage Patterns

The Drainage Patterns Report by Sigma (November 2019) contained drainage pattern data collected during the assessment of multiple slips, including the TA Slip. The purpose of the assessment was to identify the surface water and stormwater drainage areas and conveyances that discharge into the St. Louis Bay waterfront within the three task areas. Information from this assessment was used to inform the screening process for potential source sites in each of the Historic Records Screening Reports. The assessment was completed between April

and November 2019. SIGMA reviewed USGS maps from the years 1917 to 2018, 2008 LIDAR elevation data from Douglas County, and municipal sewer record GIS data from the City of Superior.

A review of topographical conditions reflected on USGS maps from 1917 to 2018 indicates that historical surface runoff drainage patterns at the Tower Avenue and Winter Street North task areas were generally in a south to north direction. 2008 LIDAR elevation data was presented as Figure D3 in the 2019 Drainage Patterns Report generated by SIGMA Group and is attached to this memorandum as **Appendix C**. The LIDAR elevation data is generally consistent with the USGS south to north surface drainage patterns. The figure in **Appendix C** shows arrows pointing in the down gradient direction of the land surface based on the 2008 LIDAR elevation data. Topographical break lines were also generated based on the LIDAR data and are depicted in **Appendix C**. The arrows and topographical break lines provide a general depiction of surface runoff patterns, but it is noted that the presence of unknown culverts, storm sewers, or detailed topographical conditions not captured by LIDAR, could impact actual drainage patterns which may be different from what is shown on the figure in **Appendix C** (SIGMA, 2019b).Regional Geology and Hydrogeology

In the area of the Tower Avenue Slip, the Miller Creek Formation is sometimes found at the land surface and consists primarily of glacially deposited, reddish clay till of the Superior Lowland region. This formation also contains some offshore lake sediments consisting of reddish layered silt and clay, with locally interbedded sand and gravel. In this region, the Miller Creek Formation includes the Douglas Member and the underlying Hanson Creek Member, both clay-rich glacial tills. The Miller Creek Formation is typically about 10 to 20 meters thick but is more than 90 meters thick near the cities of Superior and Ashland, Wisconsin. The Miller Creek Formation is underlain in this region by the Copper Falls Formation, which consists of fluvial sand and gravel, with interbedded glacial till containing highly variable proportions of sand, silt, and clay and a few percent pebbles, cobbles, and boulders. The Copper Falls Formation is typically reddish brown and slightly calcareous in most areas (Syverson, et al., 2011).

Orienta Sandstone bedrock of the middle Proterozoic Bayfield Group (Keweenawan Supergroup) underlies unconsolidated soils in this region of northwestern Wisconsin, north of the Douglas Fault, along the Lake Superior shoreline (USGS, 1992). Depth to bedrock is estimated to be 100 to 200 feet below ground surface (Wisconsin Geological and Natural History Survey, 1973).

The aquifer system in this region of northwestern Wisconsin is developed in shallow sand and gravel deposits and the Lake Superior sandstone aquifer. The sand and gravel aquifer in Wisconsin consists primarily of sand and gravel lenses within the glacial deposits. It is not a continuous unit and includes isolated lenses of sand and gravel within less permeable materials, including valley fill and basal sand and gravel deposits overlying bedrock (Kammerer, 1995).

3.2 Potential Sources of Contamination

In 2019, on behalf of the WDNR, the SIGMA group conducted a historical records review and compiled a list of 12 potential source sites for contamination within the TA Slip area. The list of twelve sites includes the Globe Elevator Dock Site, Barko Hydraulics Site, Speakes Company Site, Harvest States Cooperative Site, Northwestern Oil Site, Streetcar Powerhouse Site, Northern Engineering Site, Evered Foundry Site, Power Plant and Waste Oil Site, Railyard Site, Northwestern Boiler Works Site, and Railcar Bar Site (see **Appendix D** for a figure with the location of each sit). Possible contaminants of concern could have originated from activities at these sites, including coal storage, heavy manufacturing, building materials, coke, lime, grain storage and processing, oil, and grease storage (SIGMA, 2019c). Contamination from these sites may have impacted sediments in the TA Slip via surface run-off, sewer conveyance, subsurface contaminant migration, wind dispersal, and/or direct placement of waste materials in the harbor (SIGMA, 2019a).

According to the WDNR 2022 RFP and SOW (WDNR, 2022), the main contaminants of concern (COCs) in the slip are PAHs, PCBs, metals, mercury, tributyltin.

- **Globe Elevator Dock Slip**: Known releases include impacts from a closed Leaking Underground Storage Tank (LUST) site (BRRTS #03-16-000561). The LUST case was opened in 1989 following the discovery of

a fuel oil release during the removal of two 1,100-gallon diesel USTs. The site was closed without continuing obligations in 2007.

- **Barko Hydraulics Dock Site (formerly Paper Calmenson Dock):** Historical operations by prior property owners at this location included coal storage, grain storage, ship outfitting, steel product storage, and steel product transfer. Barko Hydraulics historical and current operations at this location have generated tetrachloroethylene, spent halogenated and non-halogenated solvents, and ignitable hazardous wastes.
- **Speakes Company Site:** Historical records indicate this site was used by the Speakes Company, a former building materials and fuel supplier, which handled materials including coal, coke, lime, and sand in its dock and warehouse on the TA Slip.
- **CHS Dock (formerly Harvest States Cooperative Site):** Historical and current activities at the site include bulk storage of various materials such as sand, stone, and salt, smelting, casting, and general manufacturing. Historical records documented multiple fires at this property.
- **Northwestern Oil Site:** Historical documents indicate this site included a warehouse and coal shed initially and was later used to store oil and grease.
- **Streetcar Powerhouse Site:** Historical records indicate the site included equipment storage, a railway powerhouse, which was most likely fueled by coal, a small foundry, and a concrete plant.
- **Northern Engineering Site:** The Northern Engineering Company is a machine shop that specializes in marine repairs and occupies the western section of this site. Historical operations included metalizing of equipment; the site is currently a building, parking lot, and outdoor storage.
- **Evered Foundry Site:** Historical documents indicate that this site included a foundry, a brass-specific foundry, a machine shop, and associated storage. Currently the site is occupied by a tire sales and auto repair business.
- **Power Plant and Waste Oil Site:** This site is listed on the Emergency Response Notification System (ERNS) with a release of waste oil to the sewer system in 2006. Previous investigations confirmed presence of a historic outlet pipe into TA Slip and a reported release from the site. Historical activities at the site included SWL&P electric depot (Winslow Station), coal fired-power plant, and later a power plant that burned fuel oil and natural gas. Current operations at the site include TrueGreen lawncare, a towing company, a waste oil storage facility, and an equipment rental company.
- **Railyard Site:** Historical documents indicate railway car repair tracks traversed this site, with an increased potential for leaks and spills from railcars awaiting repairs. Presently, one or more sets of active railroad tracks may run through the eastern section of the site, while the rest of the site is an open field.
- **Northwestern Boiler Works Site:** Historical documents indicate this site was occupied by manufacturing operations, including the boiler construction, plate and structural steel work, and welding and later by one or more junk dealers. The site is currently occupied by an auto repair and vehicle storage facility.
- **Railcar Barn Site:** Historical documents indicate this site was used as a streetcar light repair shop and later for road building machinery repair. The site is currently occupied by the Superior Department of Motor Vehicles and the WDNR.

3.3 Current and Potential Future Receptors and Exposure Pathways

The area surrounding the Tower Avenue Slip is heavily industrial. Due to the highly industrialized nature of the surrounding area, it is unlikely that human direct contact due to recreational uses will occur. Potential human receptors include the following:

1. **Maintenance Workers:** Direct contact scenarios with shallow near-shore sediments could potentially occur during maintenance activities from bordering industrial sites , though this is assumed to be infrequent. There is potential for limited exposure to dock or ship workers from chains, ropes, anchors, or other equipment that comes into contact with sediment. Potential exposures may also occur during future dredging maintenance activities via dermal contact or incidental ingestion of sediments. Although inhalation is not

considered complete while sediments remain in situ, inhalation could potentially be complete associated with dredging activities when sediments are removed and are no longer covered by water. It is assumed that any dredging that may occur would be conducted under appropriate health and safety plans that prevent or minimize potential exposure.

2. **Anglers:** Anglers may consume fish caught in the slip that have accumulated sediment-associated contaminants.
3. **Recreational Use:** Recreational boat traffic is unrestricted in this area and access could potentially occur on an infrequent basis. There is the potential for limited exposure to anchor lines, anchors, and fishing tackle that comes into contact with the sediment.

Potential ecological receptors and exposure pathways include the following:

1. **Aquatic macroinvertebrates:** Exposures may occur via direct contact with or ingestion of sediment;
2. **Fish:** Exposures may occur via direct contact with or ingestion of sediment or ingestion of prey that contain contaminants in tissues via bioaccumulative processes;
3. **Birds and mammals:** Exposures may occur via ingestion of forage or prey that contain contaminants in tissues via bioaccumulative processes. Given the heavy industrial nature of the surrounding area, it is unlikely that aquatic-associated mammals would forage within the slip. Although dermal exposure represents a potential exposure pathway for birds (or mammals), this is minor relative to ingestion exposure pathways and is considered insignificant.

4. DATA GAPS

Existing site data was reviewed to identify data gaps to inform the supplemental investigation activities to be completed in advance of the development of remedial alternatives for the site. After review of the site data collected to date, the following analytical data gaps in sediment have been identified:

- Sediment impacts above comparison criteria have been horizontally defined within the TA Slip, but impacts have not been horizontally delineated to the northeast, west, and northwest of the slip. COC concentrations at locations SW15-SLB10, SW15-SLB12 and SW15-SLB15 located to the west of the slip area and at locations ND20-TB21 and ND20-TB22 to the east of the upper slip area, exceeded comparison criteria.
- PAHs have not been vertically delineated, to concentrations below the TEC, at the following core or surface sediment locations:

HOB-1 at 0.65’	SW15-SLB13 at 6’	SW15-SLB17 0.5’
SW15-SLB11 at 8’	SW15-SLB14 at 2’	SW15-SLB18 0.5’
SW15-SLB12 at 6’	SW15-SLB15 at 6’	

- Metals, mainly mercury, arsenic, and lead have not been vertically delineated to concentrations below the TEC at the following core locations:

HOB-1 at 0.65’	SW15-SLB18 at 0.5’	ND20-TB12 at 6’
SW15-SLB10 at 4’	ND20-TB01 at 16’	ND20-TB14 at 2’
SW15-SLB11 at 8’	ND20-TB02 at 16’	ND20-TB15 at 2.3’
SW15-SLB12 at 6’	ND20-TB03 at 10’	ND20-TB19 at 6’
SW15-SLB14 at 2’	ND20-TB05 at 10’	ND20-TB20 at 6’

SW15-SLB15 at 6’	ND20-TB06 at 10’	ND20-TB22 at 10’
SW15-SLB16 at 4’	ND20-TB08 at 10’	SW15-SLB17 at 0.5’
ND20-TB09 at 10’		

- SVOCs have been horizontally delineated throughout the slip, but additional data collection is required for vertical delineation. The highest concentrations are found at locations in the innermost portion of the slip and concentrations decrease moving out towards the mouth of the bay. Concentrations above the TEC were found as deep as 16’; deeper cores are needed to determine the vertical extent of SVOC contamination above the TEC at the following core locations:

HOB-1	ND20-TB02 at 16’	ND20-TB06 at 10’
SW15-SLB11 at 8’	ND20-TB03 at 10’	ND20-TB08 at 10’
ND20-TB01 at 16’	ND20-TB05 at 10’	ND20-TB20 at 6’

In addition to the sediment analytical data gaps, limited geotechnical data is available to support the development of remedial alternatives and design for remediation construction. Select data gaps are being addressed during the field sampling event in July 2022 at the Tower Avenue Slip and will be assessed further after the data is evaluated.

5. References

(EA, 2016). Site Characterization Report Assessment of Contaminated Sediment Superior Waterfront Characterization, St. Louis River and Bay Area of Concern, Superior, Wisconsin. Prepared for United States Environmental Protection Agency Region 5. February 2016.

(EA, 2021). Site Investigation Report Characterization of Sediments in the North End District and Clough Island. St. Louis River and Bay Area of Concern Superior, Wisconsin. Prepared for State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program. June 2021.

(MPCA, 1997). The St. Louis River System Remedial Action Plan: Stage One. Prepared for the U.S. Environmental Protection Agency. December 1997.

Kammerer Jr., P.A., 1995. Ground-Water Flow and Quality in Wisconsin's Shallow Aquifer System. U.S. Geological Survey Water-Resources Investigations Report 90-4171.

Syverson, K.; L. Clayton, J. Attig; D. Mickelson, 2011. Lexicon of Pleistocene Stratigraphic Units of Wisconsin. Wisconsin Geological and Natural History Survey, Technical Report 1/2011.

Wisconsin Geological and Natural History Survey, 1973. Depth to Bedrock in Wisconsin. Compiled by L.C. Trotta and R.D. Cotter.

(SIGMA, 2019a). Historic Records Screening Report Tower Avenue Task Area Superior, Wisconsin. Prepared for Mr. John Hunt Wisconsin Department of Natural Resources. November 2019.

(SIGMA, 2019b) Drainage Patterns Report Task Areas: Winter Street, Tower Avenue, Gas Plant Superior, Wisconsin. Prepared for Mr. John Hunt Wisconsin Department of Natural Resources. November 2019.

(SIGMA, 2019c). Shoreline Changes Report Task Areas: Winter Street, Tower Avenue, Gas Plant Superior, Wisconsin. Prepared for Mr. John Hunt Wisconsin Department of Natural Resources. November 2019.

(WDNR, 2012). Remedial Action Plan Update for the St. Louis River Area of Concern. 2012.

Tables

Table 1-1
1994 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location ID	HOB-1	HOB-1	HOB-1
					Sample ID	HOB-1(0-5)	HOB-1(0-5)VC	HOB-1(5-20)VC
					Date	09-27-1994	09-27-1994	09-27-1994
					Sample depth (cmbss)	0 - 5	0 - 5	5 - 20
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**	**N**	**N**
Metals								
Arsenic	EPA 206.5	9.8	21.4	33	mg/kg	**12**	**7.82**	**11.6**
Mercury	EPA 245.5	0.18	0.64	1.1	mg/kg	**0.088**	ND	ND
Lead	NA/HPD	36	83	130	mg/kg	**20.1**	**9.08**	**1500**
AVS/SEM								
Sulfide	SW9030	--	--	--	umol/g	**1.82**	**0.29**	ND
Cadmium	N173	0.99	3	5	mg/kg	**0.819**	**0.711**	**0.933**
Copper	N173	32	91	150	mg/kg	**14.8**	**21.2**	**3.10**
Lead	N173	36	83	130	mg/kg	**20.7**	**8.22**	ND
Nickel	N173	23	36	49	mg/kg	**7.29**	**4.51**	**2.24**
Zinc	N173	120	290	460	mg/kg	**50.8**	**20.6**	**4.65**
Total Organic Carbon								
Total Organic Carbon	SW9060	--	--	--	%	**1.3**	-	-

Notes:

"--" = No Standard/Guideline Available

"-" = Not analyzed.

ND = Not detected

Bold = analyte detected above laboratory reporting limit.

Highlighted Yellow = Exceeds one or more WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC, MEC or PEC)

WI-WDNR-SE-INT-2003-TEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC-threshold effect concentration)

WI-WDNR-SE-INT-2003-MEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. MEC-midpoint effect concentration)

WI-WDNR-SE-INT-2003-PEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003.(PEC-probable effect concentration).

AVS = Acid Volatile Sulfide

SEM = Simultaneously Extractable Metals

VC = Sample collected using a vibracore

"N" = Sample type is normal (i.e. standard sample).

NA/HPD = Nitric acid/ hydrogen peroxide digestion.

% = percent; umol/g = micromoles per gram ; mg/kg = miligrams per kilograms

cmbss = centimeters below sediment surface

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg	47	J	**99**		1.7	J	**2300**		**540**	
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg	37	J	19	J	< 9.5		170	J	76	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg	< 68		17	J	< 9.5		22	J	27	J
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg	**96**		**79**		1	J	**360**		**230**	
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg	**430**		**370**		< 9.5		**1200**		**770**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg	**390**		**370**		< 9.5		**1200**		**790**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**560**		**530**		< 9.5		**980**		**1000**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg	**290**		**270**		< 9.5		**1000**		**650**	
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	200		140		< 9.5		**710**		**340**	
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg	**430**		**400**		< 9.5		**1700**		**940**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg	**90**		**79**		< 9.5		**260**		**200**	
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg	**740**		**610**		**11**		**1700**		**1400**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg	55	J	42	J	1.5	J	**360**		**140**	
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg	**270**		**230**		< 9.5		**570**		**530**	
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg	45	J	97		< 9.5		**430**		**180**	
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg	**420**		**230**		8.7	J	**1700**		**920**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg	**820**		**670**		17		**2500**		**1500**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**4920**		**4252**		**41**		**17162**		**10233**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Hexanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SOM02.2	57	83.5	110	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		-		-		-		-	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		-		-		-		-	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		-		-		-		-	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		-		-		-		-	
Atrazine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		-		-		-	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbazole	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		-		-		-		-	
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		-		-		-		-	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		-		-		-		-	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		-		-		-		-	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		-		-		-		-	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		-		-		-		-	
Isophorone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		-		-		-		-	
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		-		-		-		-	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		-		-		-		-	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		-		-		-		-	
Metals															
Ammonia	E350.1	--	--	--	mg/kg	-		-		-		-		-	
Aluminium	ISM02	--	--	--	mg/kg	**6840**		**9440**		**59400**	D	**10900**		**14700**	
Antimony	ISM02	2	13.5	25	mg/kg	**< 8.7**	U*	0.79	J*	**< 6**	U*	0.75	J*	**2.1**	J*
Arsenic	ISM02	9.8	21.4	33	mg/kg	**3.4**		**4.3**		**5.4**		**5.2**		**7.6**	
Barium	ISM02	--	--	--	mg/kg	**53.7**		**74.8**		**311**		**112**		**143**	
Beryllium	ISM02	--	--	--	mg/kg	0.38	J	0.55	J	**2.1**		0.67	J	**0.89**	
Cadmium	ISM02	0.99	3	5	mg/kg	0.32	J	**0.62**		**0.57**		0.36	J	0.43	J
Calcium	ISM02	--	--	--	mg/kg	**11200**		**8180**		**9070**		**21000**		**25100**	
Chromium	ISM02	43	76.5	110	mg/kg	**18**		**23.7**		**98.1**		**25.8**		**34.8**	
Cobalt	ISM02	--	--	--	mg/kg	6.3	J	**8.1**		**25.4**		**11.3**		**13**	
Copper	ISM02	32	91	150	mg/kg	**15.9**	*	**27.5**	*	**64.4**	*	**46.5**	*	**58.1**	*
Iron	ISM02	20000	30000	40000	mg/kg	**16400**		**17600**		**58700**	D	**22900**		**29500**	
Lead	ISM02	36	83	130	mg/kg	**21.4**		**48.3**		**30.4**		**56.1**		**70.6**	
Magnesium	ISM02	--	--	--	mg/kg	**7740**		**6910**		**18600**		**7520**		**11200**	
Manganese	ISM02	460	780	1100	mg/kg	**333**		**252**		**981**		**542**		**594**	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	0.076	J	**0.53**		**0.15**		< 0.15		0.11	J
Nickel	ISM02	23	36	49	mg/kg	**14**		**17.9**		**53.4**		**22.1**		**27.8**	
Potassium	ISM02	--	--	--	mg/kg	**837**		**1010**		**4620**		**1400**		**1890**	
Selenium	ISM02	--	--	--	mg/kg	0.68	J	0.81	J	1.9	J	1.1	J	0.56	J

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.4		0.072	J	0.12	J	< 1.3		< 1.2	
Sodiium	ISM02	--	--	--	mg/kg	228	J	216	J	308	J	241	J	331	J
Thallium	ISM02	--	--	--	mg/kg	< 3.6		< 3		< 2.5		< 3.4		< 2.9	
Vanadium	ISM02	--	--	--	mg/kg	**28**		**32.4**		**189**		**36.1**		**47.2**	
Zinc	ISM02	120	290	460	mg/kg	**70.8**		**135**		**179**		**101**		**133**	
Cadmium	SW6010	0.99	3	5	mg/kg	**< 2.5**		-		-		**< 2**		0.42	J
Copper	SW6010	32	91	150	mg/kg	3.6	J	-		-		**28.6**		**25.3**	
Lead	SW6010	36	83	130	mg/kg	**11.9**		-		-		**49**		**50.8**	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	< 0.01		-		-		< 0.0084		< 0.0077	
Nickel	SW6010	23	36	49	mg/kg	2.9	J	-		-		7	J	7.7	J
Zinc	SW6010	120	290	460	mg/kg	**40.9**		-		-		**74.2**		**76**	
AVS/SEM															
Acid volatile sulfides	AVS	--	--	--	mg/kg	< 33		-		-		< 26.9		**129**	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	< 1		-		-		< 0.84		**4**	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	0		-		-		0		**0.482**	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	< 0.022		-		-		< 0.018		0.0038	J
Copper	SW6010_SEM	32	91	150	mg/kg	0.057	J	-		-		**0.45**		**0.4**	
Lead	SW6010_SEM	36	83	130	mg/kg	0.058		-		-		**0.24**		**0.24**	
Nickel	SW6010_SEM	23	36	49	mg/kg	0.049	J	-		-		0.12	J	0.13	J
Zinc	SW6010_SEM	120	290	460	mg/kg	0.63		-		-		**1.1**		**1.2**	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	< 0.0000510		-		-		< 0.0000420		< 0.0000380	
Polychlorinated Biphenyls															
Aroclor 1016	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		**58**	
Aroclor 1260	SOM02.2	--	--	--	µg/kg	21	J	13	J	< 96		16	J	25	J
Aroclor 1262	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	< 67		< 56		< 96		< 58		< 52	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	21		13		0		16		**83**	
Pesticides															
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-		-		1.3	J	0.69	JP
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-		-		0.63	JP	1.6	JP
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-		-		< 5.8		2.1	JP
Aldrin	SOM02.2	2	41	80	µg/kg	-		-		-		**< 3**		**< 2.7**	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-		-		< 3		< 2.7	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		< 3		< 2.7	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-		-		< 3		< 2.7	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		< 3		< 2.7	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-		-		< 3		< 2.7	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-		-		1.1	JP	1.7	JP
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-		-		< 3		< 2.7	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-		-		< 5.8		0.51	JP
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-		-		< 5.8		< 5.3	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-		-		**< 5.8**		**< 5.3**	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		< 5.8		< 5.3	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-		-		< 5.8		< 5.3	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-		-		< 3		< 2.7	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-		-		< 3		< 2.7	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-		-		**< 3**		0.31	JP
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-		-		< 30		< 27	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-		-		**1.93**		**4.39**	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-		-		**< 300**		**< 270**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	**66.3**	B	**183**	B	-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	**78.2**	B	**303**	B	-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	1.4	BJ	4.18	BJ	-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	0.869	QBJ	2.13	BJ	-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	2.63	CBJ	**7.84**	CB	-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	4.43	BJ	**12**	B	-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	4.43	QBJ	**15.2**	QB	-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	3.2	CBJ	**7**	CB	-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	< 4.89	BJ	< 4.88	QBJ	-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	< 4.89	QBJ	**2.32**	QBJ	-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	0.63	QBJ	1.06	BJ	-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	1.02	BJ	2.92	BJ	-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	1.19	BJ	2.49	BJ	-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	**0.991**		0.829	QJ	-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	**3.19**		**3.05**		-		-		-	
OCDD	E1613B	--	--	--	pg/g	**584**	B	**2220**	B	-		-		-	
OCDF	E1613B	--	--	--	pg/g	**45.8**	B	**165**	B	-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB10		SW15-SLB10		SW15-SLB10		SW15-SLB11		SW15-SLB11	
					Sample ID	SW15-SLB10-SURF_7/7/2015 4:45:00 PM		SW15-SLB10-0520_7/8/2015 10:25:00 AM		SW15-SLB10-2040_7/8/2015 10:27:00 AM		SW15-SLB11-SURF_7/7/2015 8:53:00 AM		SW15-SLB11-0520_7/7/2015 1:15:00 PM	
					Date	07-07-2015		07-08-2015		07-08-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	0 - 0.5		0.5 - 2		2 - 4		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	
Other															
Total Organic Carbon	TOC	--	--	--	%	**1.93**	B	**3.43**	B	**16.7**	B	**18.3**	B	**3.78**	B
Moisture	E160.3	--	--	--	%	**41.9**		**41.1**		-		-		-	
Solids, Total	E160.3	--	--	--	%	**47.9**		**61**		**20.7**		**57.4**		**63.5**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
						Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
						Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
						Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
							N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons																
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg		-		-		-		-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg		**480**		**2300**		**8700**		**33**	J	**220**	
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg		150	J	**1500**		**3000**		10	J	43	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg		31	J	< 1500		240	J	12	J	32	J
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg		**350**		**2800**		**4700**		**49**		**130**	
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg		**1400**		**7900**		**11000**		**190**		**540**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg		**1300**		**6700**		**9700**		**210**		**550**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg		**1300**		**6300**		**8700**		**230**		**540**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg		**910**		**3900**		**5500**		**140**		**350**	
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg		**1300**		**6000**		**8600**		**240**		**460**	
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg		**1700**		**8800**		**12000**		**220**		**650**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg		**280**		**1600**		2000	J	**47**		**120**	
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg		**3000**		**18000**		**25000**		**370**		**1000**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg		**270**		**2300**		**4600**		26	J	**110**	
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg		**810**		**3700**		**5400**		**140**		**310**	
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg		210	J	770	J	1400	J	**45**		**310**	
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg		**2000**		**15000**		**26000**		**150**		**630**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg		**2800**		**16000**		**23000**		**330**		**1100**	
Total PAH	Calculated	1610	12205	22800	µg/kg		**18291**		**103570**		**159540**		**2442**		**7095**	
Volatile Organic Compounds																
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg		-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg		-		-		-		-		-	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg		-		-		-		-		-	
2-Butanone	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
2-Hexanone	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
Acetone	SOM02.2	--	--	--	µg/kg		-		-		-		-		-	
Benzene	SOM02.2	57	83.5	110	µg/kg		-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		< 500		< 710		-		-	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		**< 1300**		**< 1800**		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		**2200**		**8600**		-		-	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		< 2400		< 3500		-		-	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		250	J	400	J	-		-	
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		**1900**		**4100**		-		-	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		**< 1300**		**< 1800**		-		-	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		**3200**		**5600**		-		-	
Atrazine	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		210	J	380	J	-		-	
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		**6800**		**10000**		-		-	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		**6200**		**9000**		-		-	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		**7400**		**11000**		-		-	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		**5000**		**6400**		-		-	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		**4000**		**5400**		-		-	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		**1500**	B	< 1800		-		-	
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Carbazole	SOM02.2	--	--	--	µg/kg	-		790	J	1500	J	-		-	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		**9100**		**13000**		-		-	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		1200	J	1700	J	-		-	
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		**< 1300**		**1900**		-		-	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		**< 1300**		**< 1800**		-		-	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		**< 1300**		**< 1800**		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		< 1300		< 1800		-		-	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		< 2400		< 3500		-		-	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		12000		17000		-		-	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		2000		4400		-		-	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		4000		5200		-		-	
Isophorone	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		870	J	1600	J	-		-	
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		< 1300		< 1800		-		-	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		< 2400		< 3500		-		-	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		14000		26000		-		-	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		< 2400		< 3500		-		-	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 2400		< 3500		-		-	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		15000		24000		-		-	
Metals															
Ammonia	E350.1	--	--	--	mg/kg	-		-		-		-		-	
Aluminium	ISM02	--	--	--	mg/kg	16800		14200		11600		8350		12500	
Antimony	ISM02	2	13.5	25	mg/kg	< 7.7	U*	1.2	J*	0.71	J*	< 12.6	U*	0.72	J*
Arsenic	ISM02	9.8	21.4	33	mg/kg	5.6		8.1		8.9		3.7		5.7	
Barium	ISM02	--	--	--	mg/kg	165		211		336		75.2		115	
Beryllium	ISM02	--	--	--	mg/kg	0.93		0.93		0.9		0.44	J	0.72	
Cadmium	ISM02	0.99	3	5	mg/kg	0.63	J	2		2.8		0.34	J	1.2	
Calcium	ISM02	--	--	--	mg/kg	23500		16700		18700		11700		11800	
Chromium	ISM02	43	76.5	110	mg/kg	38		46.3		34.2		21.5		33.6	
Cobalt	ISM02	--	--	--	mg/kg	13		10.8		9.5		7.6	J	10.3	
Copper	ISM02	32	91	150	mg/kg	60.4	*	122	*	151	*	18.7	*	38	*
Iron	ISM02	20000	30000	40000	mg/kg	24600		29600		19700		20400		31400	
Lead	ISM02	36	83	130	mg/kg	90.3		300		456		16.9		70	
Magnesium	ISM02	--	--	--	mg/kg	12700		10500		8030		8490		9800	
Manganese	ISM02	460	780	1100	mg/kg	558		502		350		600		491	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	0.16	J	1.5		5.8	D	0.087	J	0.45	
Nickel	ISM02	23	36	49	mg/kg	30.5		28.3		25.4		17		23.6	
Potassium	ISM02	--	--	--	mg/kg	2050		1580		1230		1010	J	1290	
Selenium	ISM02	--	--	--	mg/kg	0.64	J	1.4	J	1.8	J	< 7.3		0.97	J

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.3		**1.9**		**4.3**		**< 2.1**		0.62	J
Sodiium	ISM02	--	--	--	mg/kg	333	J	328	J	298	J	267	J	279	J
Thallium	ISM02	--	--	--	mg/kg	< 3.2		< 3.4		< 4.2		< 5.2		< 2.9	
Vanadium	ISM02	--	--	--	mg/kg	**43.9**		**45.7**		**34.5**		**32.3**		**38.8**	
Zinc	ISM02	120	290	460	mg/kg	**155**		**510**		**732**		**75.3**		**231**	
Cadmium	SW6010	0.99	3	5	mg/kg	-		-		-		**< 2.4**		-	
Copper	SW6010	32	91	150	mg/kg	-		-		-		7.7	J	-	
Lead	SW6010	36	83	130	mg/kg	-		-		-		**12**		-	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	-		-		-		0.0074	J	-	
Nickel	SW6010	23	36	49	mg/kg	-		-		-		3.5	J	-	
Zinc	SW6010	120	290	460	mg/kg	-		-		-		**43**		-	
AVS/SEM															
Acid volatile sulfides	AVS	--	--	--	mg/kg	-		-		-		< 32.5		-	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	-		-		-		< 1		-	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	-		-		-		0		-	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	-		-		-		< 0.022		-	
Copper	SW6010_SEM	32	91	150	mg/kg	-		-		-		0.12	J	-	
Lead	SW6010_SEM	36	83	130	mg/kg	-		-		-		0.058		-	
Nickel	SW6010_SEM	23	36	49	mg/kg	-		-		-		0.06	J	-	
Zinc	SW6010_SEM	120	290	460	mg/kg	-		-		-		0.66		-	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	-		-		-		0.000037	J	-	
Polychlorinated Biphenyls															
Aroclor 1016	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	< 54		53	J	< 71		< 71		< 56	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	**63**		**130**		< 71		< 71		< 56	
Aroclor 1260	SOM02.2	--	--	--	µg/kg	31	J	**78**	P	**71**		13	J	22	J
Aroclor 1262	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	< 54		< 60		< 71		< 71		< 56	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	**94**		**261**		**71**		13		22	
Pesticides															
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Aldrin	SOM02.2	2	41	80	µg/kg	-		-		-		-		-	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-		-		-		-	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-		-		-		-	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-		-		-		-	
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-		-		-		-	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-		-		-		-	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-		-		-		-	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 2.7		< 2.2	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 43	Ucn*	< 35	Ucn*
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 3.6		< 2.9	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB11		SW15-SLB11		SW15-SLB11		SW15-SLB12		SW15-SLB12	
					Sample ID	SW15-SLB11-2040_7/7/2015 1:05:00 PM		SW15-SLB11-4060_7/7/2015 1:26:00 PM		SW15-SLB11-6080_7/7/2015 1:48:00 PM		SW15-SLB12-SURF_7/7/2015 3:25:00 PM		SW15-SLB12-0520_7/8/2015 11:10:00 AM	
					Date	07-07-2015		07-07-2015		07-07-2015		07-07-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		6 - 8		0 - 0.5		0.5 - 2	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		< 3.1		< 2.5	
Other															
Total Organic Carbon	TOC	--	--	--	%	**3.34**	B	**5.66**	B	**8.95**	B	**1.87**	B	**3.78**	B
Moisture	E160.3	--	--	--	%	-		-		-		-		-	
Solids, Total	E160.3	--	--	--	%	**60.7**		**53.3**		**46.8**		**47.2**		**58.7**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg	**150**		32	J	**620**		**410**		1700	J
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg	30	J	12	J	130	J	180	J	1800	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg	21	J	14	J	55	J	57	J	< 2000	
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg	**100**		**62**		350	J	**420**		**2300**	
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg	**390**		**260**		**1400**		**1800**		**3700**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg	**340**		**220**		**1500**		**1800**		**2700**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**540**		**310**		**1900**		**2100**		**2400**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg	**260**		**170**		**1200**		**1200**		1900	J
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**180**		**120**		**1600**		**1600**		**2200**	
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg	**380**		**260**		**2000**		**2300**		**5300**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg	**70**		46	J	380	J	100	J	680	J
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg	**680**		**490**		**3400**		**3700**		**6100**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg	**72**		35	J	230	J	**300**		**3500**	
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg	**250**		**160**		**1100**		**1100**		1500	J
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg	**150**		39	J	360	J	250	J	660	J
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg	**370**		**230**		**1500**		**2300**		**16000**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg	**670**		**470**		**2600**		**3400**		**11000**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**4653**		**2930**		**20325**		**23017**		**63440**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg	-		-		**< 1300**		**< 860**		**< 610**	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg	-		-		**< 1300**		**< 860**		**< 610**	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg	-		-		**< 1300**		**< 860**		**< 610**	
2-Butanone	SOM02.2	--	--	--	µg/kg	-		-		< 2500		< 1700		< 1200	
2-Hexanone	SOM02.2	--	--	--	µg/kg	-		-		< 2500		< 1700		< 1200	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg	-		-		< 2500		< 1700		< 1200	
Acetone	SOM02.2	--	--	--	µg/kg	-		-		< 2500		< 1700		< 1200	
Benzene	SOM02.2	57	83.5	110	µg/kg	-		-		**< 1300**		**< 860**		**< 610**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Bromoform	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Chloroform	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		-		1600		820	J	**650**	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Styrene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		-		**< 1300**		110	J	270	J
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		-		**< 2600**		**< 1720**		**< 1220**	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		-		< 160		< 150		< 410	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		-		**< 410**		**< 370**		**< 1000**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		-		**640**		**380**		**1300**	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		-		< 800		< 720		< 2000	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		50	J	35	J	120	J
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		-		150	J	210	J	**2400**	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		-		32	J	34	J	**< 1000**	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		-		77	J	< 720		270	J
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		-		340	J	**400**		**2600**	
Atrazine	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		-		180	J	150	J	170	J
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		-		**1400**		**1600**		**3500**	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		-		**1500**		**1400**		**2200**	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		**2200**		**2200**		**2700**	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		-		**1300**		**1300**		**1600**	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		**1200**		**870**		**1200**	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		-		71	J	52	J	< 1000	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		-		**820**	B	**650**	B	< 1000	JB
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		-		< 410	JB	< 370	JB	< 1000	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Carbazole	SOM02.2	--	--	--	µg/kg	-		-		140	J	130	J	< 2000	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		-		**2200**		**2000**		**5000**	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		-		330	J	330	J	490	J
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		-		250	J	170	J	**< 1000**	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		-		< 410		< 370		**< 1000**	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		-		< 410		< 370		**< 1000**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		-		36	J	21	J	< 1000	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		-		78	J	**< 720**		**< 2000**	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		-		**2000**		**2300**		**4500**	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		-		220	J	250	J	**2500**	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		-		**1000**		**960**		**1100**	
Isophorone	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		-		**420**		250	J	500	J
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		-		< 410		< 370		< 1000	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		-		**< 800**		**< 720**		**< 2000**	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		-		**1600**		**1900**		**14000**	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		-		< 800		< 720		< 2000	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		< 800		< 720		< 2000	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		-		**3000**		**3000**		**8800**	
Metals															
Ammonia	E350.1	--	--	--	mg/kg	-		-		**152**	B	**284**	B	**169**	B
Aluminium	ISM02	--	--	--	mg/kg	**10100**		**9570**		**19400**		**17700**		**11700**	
Antimony	ISM02	2	13.5	25	mg/kg	0.29	J*	**< 9.2**	U*	1.5	J*	0.92	J*	1.5	J*
Arsenic	ISM02	9.8	21.4	33	mg/kg	**4.1**		**4.1**		**10.8**		**9.1**		**6.1**	
Barium	ISM02	--	--	--	mg/kg	**82.4**		**72.2**		**173**		**163**		**131**	
Beryllium	ISM02	--	--	--	mg/kg	0.55	J	0.51	J	**1.1**		**0.98**		**0.71**	
Cadmium	ISM02	0.99	3	5	mg/kg	**0.7**		0.47	J	**0.99**		**1**		**1.1**	
Calcium	ISM02	--	--	--	mg/kg	**10400**		**9770**		**35800**		**24200**		**18900**	
Chromium	ISM02	43	76.5	110	mg/kg	**25.3**		**23.9**		**48.6**		**46.8**		**29.9**	
Cobalt	ISM02	--	--	--	mg/kg	**8.8**		**8.3**		**14.7**		**13.2**		**8.7**	
Copper	ISM02	32	91	150	mg/kg	**41.7**	*	**25**	*	**91.2**	*	**75.1**	*	**65.6**	*
Iron	ISM02	20000	30000	40000	mg/kg	**23200**		**20500**		**42700**		**37200**		**25000**	
Lead	ISM02	36	83	130	mg/kg	**45.8**		**29.4**		**123**		**118**		**152**	
Magnesium	ISM02	--	--	--	mg/kg	**8150**		**7780**		**14300**		**13800**		**9300**	
Manganese	ISM02	460	780	1100	mg/kg	**420**		**407**		**849**		**719**		**349**	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	**0.29**		0.094	J	0.086	J	**0.23**		**1.1**	
Nickel	ISM02	23	36	49	mg/kg	**19.6**		**18.6**		**35**		**32.9**		**21.7**	
Potassium	ISM02	--	--	--	mg/kg	**1020**		**1000**		**2440**		**2070**		**1300**	
Selenium	ISM02	--	--	--	mg/kg	0.86	J	0.84	J	1.3	J	< 5.2		1.6	J

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.2		< 1.5		**< 1.9**		0.18	J	**1.8**	
Sodiium	ISM02	--	--	--	mg/kg	223	J	214	J	440	J	425	J	331	J
Thallium	ISM02	--	--	--	mg/kg	< 3.1		< 3.8		< 4.7		< 3.7		< 3.4	
Vanadium	ISM02	--	--	--	mg/kg	**34**		**32.6**		**57.5**		**52.7**		**37.7**	
Zinc	ISM02	120	290	460	mg/kg	**138**		**100**		**266**		**244**		**290**	
Cadmium	SW6010	0.99	3	5	mg/kg	-		-		0.61	J	0.9	J	-	
Copper	SW6010	32	91	150	mg/kg	-		-		**40.2**		**33.9**		-	
Lead	SW6010	36	83	130	mg/kg	-		-		**75.7**		**94.2**		-	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	-		-		< 0.012		< 0.01		-	
Nickel	SW6010	23	36	49	mg/kg	-		-		9.2	J	8	J	-	
Zinc	SW6010	120	290	460	mg/kg	-		-		**143**		**163**		-	
AVS/SEM															
Acid volatile sulfides	AVS	--	--	--	mg/kg	-		-		< 37.6		**41.4**		-	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	-		-		< 1.2		**1.3**		-	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	-		-		0		**2.81**		-	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	-		-		0.0055	J	0.008	J	-	
Copper	SW6010_SEM	32	91	150	mg/kg	-		-		**0.63**		**0.53**		-	
Lead	SW6010_SEM	36	83	130	mg/kg	-		-		**0.37**		**0.45**		-	
Nickel	SW6010_SEM	23	36	49	mg/kg	-		-		0.16	J	0.14	J	-	
Zinc	SW6010_SEM	120	290	460	mg/kg	-		-		**2.2**		**2.5**		-	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	-		-		< 0.0000590		< 0.0000520		-	
Polychlorinated Biphenyls															
Aroclor 1016	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	< 55		< 50		**140**		**140**		< 60	
Aroclor 1260	SOM02.2	--	--	--	µg/kg	< 55		< 50		57	JP	58	JP	26	J
Aroclor 1262	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	< 55		< 50		< 83		< 71		< 60	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	0		0		**197**		**198**		26	
Pesticides															
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-		1.4	JP	3.7	J	-	
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-		4.3	JP	1.2	JP	-	
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-		5.4	JP	4.3	JP	-	
Aldrin	SOM02.2	2	41	80	µg/kg	-		-		**< 4.2**		**< 3.6**		-	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-		< 4.2		< 3.6		-	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		< 4.2		< 3.6		-	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-		< 4.2		< 3.6		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		< 4.2		< 3.6		-	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-		**< 4.2**		**< 3.6**		-	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-		3.7	JP	3.8	JP	-	
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-		< 4.2		< 3.6		-	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-		1.3	JP	< 7		-	
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-		< 8.1		< 7		-	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-		**< 8.1**		**< 7**		-	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-		< 8.1		< 7		-	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-		< 8.1		< 7		-	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-		**< 4.2**		**< 3.6**		-	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-		< 4.2		< 3.6		-	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-		1.1	JP	0.88	JP	-	
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		< 1300		< 860		< 610	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-		< 42		< 36		-	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-		**11.1**		**9.2**		-	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-		**< 420**		**< 360**		-	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		< 3.1		< 2.8		< 2.3	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		< 50	Ucn*	< 45	Ucn*	< 37	Ucn*
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		< 4.1		< 3.7		< 3.1	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB12		SW15-SLB12		SW15-SLB13		SW15-SLB13		SW15-SLB13	
					Sample ID	SW15-SLB12-2040_7/8/2015 11:12:00 AM		SW15-SLB12-4060_7/8/2015 11:15:00 AM		SW15-SLB13-SURF_7/7/2015 9:50:00 AM		SW15-SLB13-0520_7/7/2015 1:00:00 PM		SW15-SLB13-2040_7/7/2015 3:05:00 PM	
					Date	07-08-2015		07-08-2015		07-07-2015		07-07-2015		07-07-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		< 3.6		**5.2**		< 2.7	
Other															
Total Organic Carbon	TOC	--	--	--	%	**3.9**	B	**3.2**	B	**4.93**	B	**3.1**	B	**6.24**	B
Moisture	E160.3	--	--	--	%	-		-		-		-		-	
Solids, Total	E160.3	--	--	--	%	**60.5**		**64.3**		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg	18	J	**79**		**94**		20	J	**100**	
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg	31	J	18	J	36	J	< 54		25	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg	8.3	J	16	J	16	J	< 54		22	J
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg	**61**		**71**		**89**		19	J	**97**	
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg	**290**		**290**		**420**		**81**		**420**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg	**270**		**320**		**440**		**79**		**390**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**250**		**340**		**530**		**130**		**610**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg	**160**		**220**		**330**		**63**		**290**	
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**250**		**350**		**390**		42	J	200	
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg	**300**		**380**		**510**		**90**		**420**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg	**54**		**71**		**94**		19	J	**84**	
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg	**630**		**640**		**850**		**140**		**760**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg	33	J	37	J	64	J	11	J	**63**	
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg	**150**		**200**		**290**		**60**		**280**	
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg	28	J	**61**		**82**		18	J	**100**	
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg	**350**		**270**		**410**		**69**		**360**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg	**560**		**520**		**790**		**170**		**760**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**3443**		**3883**		**5435**		**1011**		**4981**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg	-		**< 2000**		**< 890**		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg	-		**< 2000**		**< 890**		-		-	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg	-		**< 2000**		**< 890**		-		-	
2-Butanone	SOM02.2	--	--	--	µg/kg	-		< 4000		< 1800		-		-	
2-Hexanone	SOM02.2	--	--	--	µg/kg	-		< 4000		< 1800		-		-	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg	-		< 4000		< 1800		-		-	
Acetone	SOM02.2	--	--	--	µg/kg	-		< 4000		< 1800		-		-	
Benzene	SOM02.2	57	83.5	110	µg/kg	-		**< 2000**		**< 890**		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Bromoform	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890	JB	-		-	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Chloroform	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		**2600**		**1300**		-		-	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Styrene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		290	J	200	J	-		-	
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		**< 4000**		**< 1780**		-		-	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		< 120		< 140		-		-	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		**< 300**		**< 360**		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		82	J	97	J	-		-	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		< 570		< 700		-		-	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		27	J	44	J	-		-	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		**< 300**		**< 360**		-		-	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		52	J	33	J	-		-	
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		67	J	86	J	-		-	
Atrazine	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		62	J	130	J	-		-	
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		**< 300**	JB	350	J	-		-	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		290	J	350	J	-		-	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		**490**		**500**		-		-	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		250	J	**430**		-		-	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		250	J	320	J	-		-	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		< 300	JB	< 360	JB	-		-	
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		< 300	JB	< 360	JB	-		-	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		< 570	JB	< 700		-		-	
Carbazole	SOM02.2	--	--	--	µg/kg	-		26	J	28	J	-		-	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		**400**	B	**590**		-		-	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		75	J	110	J	-		-	
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		44	J	54	J	-		-	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		< 300		< 360		-		-	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		< 300		< 360		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		< 300		70	J	-		-	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		< 570		**< 700**		-		-	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		440	J	480	J	-		-	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		44	J	69	J	-		-	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		200	J	290	J	-		-	
Isophorone	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		68	J	87	J	-		-	
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		< 300		< 360		-		-	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		**< 570**		**< 700**		-		-	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		280	J	**400**		-		-	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		< 570		< 700		-		-	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		< 570		< 700		-		-	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		**640**	B	**960**		-		-	
Metals															
Ammonia	E350.1	--	--	--	mg/kg	-		**45.2**	B	**153**	F1B	-		-	
Aluminium	ISM02	--	--	--	mg/kg	**6060**		**16400**		**13100**		**7480**	*	**9490**	*
Antimony	ISM02	2	13.5	25	mg/kg	**< 8.4**	U*	0.8	J*	0.65	J*	**< 8.4**	U*	0.48	J*
Arsenic	ISM02	9.8	21.4	33	mg/kg	**2.6**		**6.9**		**6.4**		**3.1**		**4.5**	
Barium	ISM02	--	--	--	mg/kg	**51.2**		**144**		**111**		**73**		**165**	
Beryllium	ISM02	--	--	--	mg/kg	0.37	J	0.83	J	0.67	J	0.37	J*	0.53	J*
Cadmium	ISM02	0.99	3	5	mg/kg	0.38	J	0.61	J	0.62	J	0.25	J	0.5	J
Calcium	ISM02	--	--	--	mg/kg	**18300**		**17100**		**15800**		**11700**		**10500**	
Chromium	ISM02	43	76.5	110	mg/kg	**14.7**		**39**		**33.2**		**25.3**	*	**22.7**	*
Cobalt	ISM02	--	--	--	mg/kg	5.2	J	12.4	J	**10.1**		6	J	**7.6**	
Copper	ISM02	32	91	150	mg/kg	**14.6**	*	**50.1**	*	**43.6**	*	**15.4**		**27.7**	
Iron	ISM02	20000	30000	40000	mg/kg	**12700**		**35900**		**28900**		**16800**	*	**19000**	*
Lead	ISM02	36	83	130	mg/kg	**10.2**		**53**		**57.4**		**15.5**	*	**328**	*
Magnesium	ISM02	--	--	--	mg/kg	**8720**		**12900**		**11400**		**8130**		**7930**	
Manganese	ISM02	460	780	1100	mg/kg	**202**		**829**		**545**		**439**		**323**	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	**0.17**		0.13	J	0.15	J	< 0.14		**0.28**	
Nickel	ISM02	23	36	49	mg/kg	**12.4**		**29**		**24**		**13.7**		**17**	
Potassium	ISM02	--	--	--	mg/kg	626	J	**2140**		**1590**		**986**		**1140**	
Selenium	ISM02	--	--	--	mg/kg	< 4.9		< 10.2		1.1	J	0.79	J	0.77	J

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	**Analytical Method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.4		**< 2.9**		< 1.5		< 1.4		< 1.2	
Sodiium	ISM02	--	--	--	mg/kg	218	J	400	J	334	J	250	J	239	J
Thallium	ISM02	--	--	--	mg/kg	< 3.5		< 7.3		< 3.9		< 3.5		< 3	
Vanadium	ISM02	--	--	--	mg/kg	**29.5**		**49**		**41.9**		**30.4**		**33.7**	
Zinc	ISM02	120	290	460	mg/kg	**37**		**166**		**164**		**65.2**	*	**111**	*
Cadmium	SW6010	0.99	3	5	mg/kg	-		< 0.34		-		**< 1.9**		0.35	J
Copper	SW6010	32	91	150	mg/kg	-		**2.1**		-		5.1	J	6.2	J
Lead	SW6010	36	83	130	mg/kg	-		4		-		**9.3**		**34**	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	-		0.0055	J	-		< 0.008		0.0027	J
Nickel	SW6010	23	36	49	mg/kg	-		0.77	J	-		2.3	J	3.7	J
Zinc	SW6010	120	290	460	mg/kg	-		**9.4**		-		**25.8**		**66.2**	
AVS/SEM															
Acid volatile sulfides	AVS	--	--	--	mg/kg	-		< 45.2		-		< 25.6		< 26.1	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	-		< 1.4		-		< 0.8		< 0.81	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	-		0		-		0		0	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	-		< 0.003		-		< 0.017		0.0031	J
Copper	SW6010_SEM	32	91	150	mg/kg	-		**0.034**		-		0.08	J	0.098	J
Lead	SW6010_SEM	36	83	130	mg/kg	-		**0.019**		-		**0.045**		**0.16**	
Nickel	SW6010_SEM	23	36	49	mg/kg	-		0.013	J	-		0.039	J	0.063	J
Zinc	SW6010_SEM	120	290	460	mg/kg	-		**0.14**		-		**0.39**		**1**	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	-		0.000027	J	-		< 0.0000400		0.000013	J
Polychlorinated Biphenyls															
Aroclor 1016	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	-		11	JP	< 68		< 55		< 55	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	-		< 59		52	J	< 55		< 55	
Aroclor 1260	SOM02.2	--	--	--	µg/kg	-		47	J	50	J	10	J	24	J
Aroclor 1262	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	-		< 59		< 68		< 55		< 55	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	-		58		102		10		24	
Pesticides															
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Aldrin	SOM02.2	2	41	80	µg/kg	-		-		-		-		-	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-		-		-		-	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-		-		-		-	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-		-		-		-	
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-		-		-		-	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-		-		-		-	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		< 2000		< 890		-		-	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-		-		-		-	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		< 3.7		< 2.7		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		< 60	Ucn*	< 43	Ucn*	-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		< 4.9		< 3.5		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB13		SW15-SLB14		SW15-SLB14		SW15-SLB15		SW15-SLB15	
					Sample ID	SW15-SLB13-4060_7/7/2015 3:12:00 PM		SW15-SLB14-SURF_7/7/2015 3:40:00 PM		SW15-SLB14-0520_7/7/2015 2:15:00 PM		SW15-SLB15-SURF_07/08/2015 14:40		SW15-SLB15-0520_07/08/2015 08:55	
					Date	07-07-2015		07-07-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	4 - 6		0 - 0.5		0.5 - 2		0 - 0.5		0.5 - 2	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		< 4.3		**6.4**		-		-	
Other															
Total Organic Carbon	TOC	--	--	--	%	**2.04**	B	**3.57**	B	**3.76**	B	**0.987**	B	**3.42**	B
Moisture	E160.3	--	--	--	%	-		-		-		-		-	
Solids, Total	E160.3	--	--	--	%	**66.7**		-		-		**61.3**		**59.8**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg	**130**		60	J	**97**		**53**	J	2.5	J
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg	32	J	21	J	20	J	16	J	1	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg	27	J	18	J	< 70		< 57		< 5	
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg	**130**		**87**		64	J	50	J	3.4	J
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg	**530**		**380**		**270**		**200**		**11**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg	**510**		**360**		**250**		**190**		**9.4**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**770**		**500**		**420**		**300**		**14**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg	**350**		**270**		**210**		**140**		**6.1**	
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**250**		**180**		**160**		**94**		4.9	J
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg	**530**		**370**		**330**		**240**		**14**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg	98	J	**81**		61	J	41	J	1.9	J
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg	**940**		**700**		**490**		**360**		**18**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg	89	J	53	J	43	J	34	J	1.4	J
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg	**330**		**270**		**200**		**130**		**5.3**	
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg	**140**		**79**		69	J	44	J	1.7	J
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg	**500**		**340**		**220**		**180**		**14**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg	**960**		**740**		**570**		**400**		**26**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**6316**		**4509**		**3474**		**2472**		**135**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Hexanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SOM02.2	57	83.5	110	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		-		-		-		-	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		-		-		-		-	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		-		-		-		-	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		-		-		-		-	
Atrazine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-		-		-		-	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Carbazole	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		-		-		-		-	
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		-		-		-		-	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		-		-		-		-	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		-		-		-		-	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		-		-		-		-	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		-		-		-		-	
Isophorone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		-		-		-		-	
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		-		-		-		-	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		-		-		-		-	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		-		-		-		-	
Metals															
Ammonia	E350.1	--	--	--	mg/kg	-		-		-		-		-	
Aluminium	ISM02	--	--	--	mg/kg	**10900**	*	**16800**	*	**11900**	*	**13500**	*	**21600**	*
Antimony	ISM02	2	13.5	25	mg/kg	**< 9.3**	U*	**< 12**	U*	**< 9.9**	U*	0.39	J*	**< 6.4**	U*
Arsenic	ISM02	9.8	21.4	33	mg/kg	**4**		**4.6**		**4.5**		**4.5**		**4.9**	
Barium	ISM02	--	--	--	mg/kg	**87**		**125**		**105**		**109**		**156**	
Beryllium	ISM02	--	--	--	mg/kg	0.6	J*	0.79	J*	0.55	J*	0.63	J*	**1.1**	*
Cadmium	ISM02	0.99	3	5	mg/kg	0.58	J	0.49	J	0.38	J	0.48	J	0.2	J
Calcium	ISM02	--	--	--	mg/kg	**10400**		**11300**		**13500**		**14700**		**51500**	D
Chromium	ISM02	43	76.5	110	mg/kg	**25.8**	*	**39.9**	*	**27.7**	*	**32.2**	*	**43.2**	*
Cobalt	ISM02	--	--	--	mg/kg	**8.6**		**12.6**		**8.6**		**9.5**		**14.2**	
Copper	ISM02	32	91	150	mg/kg	**29**		**31.3**		**29.9**		**37**		**38.6**	
Iron	ISM02	20000	30000	40000	mg/kg	**21900**	*	**29400**	*	**24200**	*	**26900**	*	**34800**	*D
Lead	ISM02	36	83	130	mg/kg	**48.3**	*	32.2	*	**25.2**	*	**37.2**	*	**11.1**	*
Magnesium	ISM02	--	--	--	mg/kg	**8270**		**10400**		**9940**		**11000**		**19200**	
Manganese	ISM02	460	780	1100	mg/kg	**383**		**593**		**644**		**580**		**670**	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	**0.28**		**0.24**		0.063	J	0.079	J	< 0.13	
Nickel	ISM02	23	36	49	mg/kg	**19.3**		**28.8**		**20.2**		**22.6**		**32.1**	
Potassium	ISM02	--	--	--	mg/kg	**1260**		**1900**		**1660**		**1800**		**3390**	
Selenium	ISM02	--	--	--	mg/kg	< 5.4		< 7		< 5.8		0.74	J	< 3.7	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.6		< 2		< 1.7		< 1.3		< 1.1	
Sodiium	ISM02	--	--	--	mg/kg	237	J	333	J	318	J	340	J	**544**	
Thallium	ISM02	--	--	--	mg/kg	< 3.9		< 5		< 4.1		< 3.2		< 2.7	
Vanadium	ISM02	--	--	--	mg/kg	**34.8**		**51.5**		**36.6**		**40.2**		**60.1**	
Zinc	ISM02	120	290	460	mg/kg	**126**	*	**113**	*	**111**	*	**135**	*	**60.7**	*
Cadmium	SW6010	0.99	3	5	mg/kg	-		-		< 2.6		-		-	
Copper	SW6010	32	91	150	mg/kg	-		-		**8.7**	J	-		-	
Lead	SW6010	36	83	130	mg/kg	-		-		**17.6**		-		-	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	-		-		< 0.011		-		-	
Nickel	SW6010	23	36	49	mg/kg	-		-		**4.5**	J	-		-	
Zinc	SW6010	120	290	460	mg/kg	-		-		**53.9**		-		-	
AVS/SEM															
Acid volatile sulfides	AVS	--	--	--	mg/kg	-		-		< 34		-		-	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	-		-		< 1.1		-		-	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	-		-		0		-		-	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	-		-		< 0.023		-		-	
Copper	SW6010_SEM	32	91	150	mg/kg	-		-		0.14	J	-		-	
Lead	SW6010_SEM	36	83	130	mg/kg	-		-		**0.085**		-		-	
Nickel	SW6010_SEM	23	36	49	mg/kg	-		-		0.076	J	-		-	
Zinc	SW6010_SEM	120	290	460	mg/kg	-		-		**0.82**		-		-	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	-		-		< 0.0000530		-		-	
Polychlorinated Biphenyls															
Aroclor 1016	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	< 56		-		35	J	35	J	< 50	
Aroclor 1260	SOM02.2	--	--	--	µg/kg	7	JP	-		27	J	34	J	< 50	
Aroclor 1262	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	< 56		-		< 72		< 59		< 50	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	7		-		62		69		0	
Pesticides															
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Aldrin	SOM02.2	2	41	80	µg/kg	-		-		-		-		-	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-		-		-		-	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-		-		-		-	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-		-		-		-	
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-		-		-		-	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-		-		-		-	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-		-		-		-	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-		-		-		-	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB15		SW15-SLB15		SW15-SLB16		SW15-SLB16		SW15-SLB16	
					Sample ID	SW15-SLB15-2040_07/08/2015 08:53		SW15-SLB15-4060_07/08/2015 08:55		SW15-SLB16-SURF_07/07/2015 13:40		SW15-SLB16-0520_07/08/2015 09:40		SW15-SLB16-2040_07/08/2015 09:40	
					Date	07-08-2015		07-08-2015		07-07-2015		07-08-2015		07-08-2015	
					Sample Depth (ftbss)	2 - 4		4 - 6		0 - 0.5		0.5 - 2		2 - 4	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	
Other															
Total Organic Carbon	TOC	--	--	--	%	**3.85**	B	**5.03**	B	**2.5**	B	**2.36**	B	**0.183**	B
Moisture	E160.3	--	--	--	%	-		-		-		-		-	
Solids, Total	E160.3	--	--	--	%	**58**		**47.6**		**46.6**		**56**		**65.9**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
Polycyclic Aromatic Hydrocarbons									
1-Methylnaphthalene	SOM02.2/SV SIM	--	--	--	µg/kg	-		-	
2-Methylnaphthalene	SOM02.2/SV SIM	20.2	111	201	µg/kg	34	J	43	J
Acenaphthene	SOM02.2/SV SIM	6.7	48	89	µg/kg	29	J	18	J
Acenaphthylene	SOM02.2/SV SIM	5.9	67	128	µg/kg	< 62		< 70	
Anthracene	SOM02.2/SV SIM	57.2	451	845	µg/kg	**80**		61	J
Benzo (a) anthracene	SOM02.2/SV SIM	108	579	1050	µg/kg	**230**		**290**	
Benzo (a) pyrene	SOM02.2/SV SIM	150	800	1450	µg/kg	**190**		**240**	
Benzo (b) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**270**		**390**	
Benzo (ghi) perylene	SOM02.2/SV SIM	170	1685	3200	µg/kg	**130**		**180**	
Benzo (k) fluoranthene	SOM02.2/SV SIM	240	6820	13400	µg/kg	**100**		**140**	
Chrysene	SOM02.2/SV SIM	166	728	1290	µg/kg	**240**		**310**	
Dibenz (a,h) anthracene	SOM02.2/SV SIM	33	84	135	µg/kg	38	J	53	J
Fluoranthene	SOM02.2/SV SIM	423	1327	2230	µg/kg	**470**		**500**	
Fluorene	SOM02.2/SV SIM	77.4	307	536	µg/kg	51	J	41	J
Indeno (1,2,3-cd) pyrene	SOM02.2/SV SIM	200	1700	3200	µg/kg	**120**		**170**	
Naphthalene	SOM02.2/SV SIM	176	369	561	µg/kg	35	J	38	J
Phenanthrene	SOM02.2/SV SIM	204	687	1170	µg/kg	**310**		**280**	
Pyrene	SOM02.2/SV SIM	195	858	1520	µg/kg	**440**		**560**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**2767**		**3314**	
Volatile Organic Compounds									
1,1,1-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,1,2,2-Tetrachloroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,1,2-Trichloroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,1-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,1-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-	
1,2,3-Trichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-	
1,2,4-Trichlorobenzene	SOM02.2	8	13	18	µg/kg	-		-	
1,2-Dibromo3-chloropropane (DBCP)	SOM02.2	--	--	--	µg/kg	-		-	
1,2-Dibromoethane	SOM02.2	--	--	--	µg/kg	-		-	
1,2-Dichlorobenzene	SOM02.2	23	--	23	µg/kg	-		-	
1,2-Dichloroethane	SOM02.2	--	--	--	µg/kg	-		-	
1,2-Dichloropropane	SOM02.2	--	--	--	µg/kg	-		-	
1,4-Dichlorobenzene	SOM02.2	31	60.5	90	µg/kg	-		-	
2-Butanone	SOM02.2	--	--	--	µg/kg	-		-	
2-Hexanone	SOM02.2	--	--	--	µg/kg	-		-	
4-Methyl-2-pentanone	SOM02.2	--	--	--	µg/kg	-		-	
Acetone	SOM02.2	--	--	--	µg/kg	-		-	
Benzene	SOM02.2	57	83.5	110	µg/kg	-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
Bromodichloromethane	SOM02.2	--	--	--	µg/kg	-		-	
Bromoform	SOM02.2	--	--	--	µg/kg	-		-	
Bromomethane	SOM02.2	--	--	--	µg/kg	-		-	
Carbon Disulfide	SOM02.2	--	--	--	µg/kg	-		-	
Carbon Tetrachloride	SOM02.2	--	--	--	µg/kg	-		-	
Dichlorodifluoromethane (CFC-12)	SOM02.2	--	--	--	µg/kg	-		-	
Chlorobenzene	SOM02.2	--	--	--	µg/kg	-		-	
Chloroethane	SOM02.2	--	--	--	µg/kg	-		-	
Chloroform	SOM02.2	--	--	--	µg/kg	-		-	
Chloromethane	SOM02.2	--	--	--	µg/kg	-		-	
cis-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-	
cis-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-	
Cyclohexane	SOM02.2	--	--	--	µg/kg	-		-	
Dibromochloromethane	SOM02.2	--	--	--	µg/kg	-		-	
Ethylbenzene	SOM02.2	--	--	--	µg/kg	-		-	
Isopropylbenzene	SOM02.2	--	--	--	µg/kg	-		-	
m,p-Xylene	SOM02.2	--	--	--	µg/kg	-		-	
Methyl Acetate	SOM02.2	--	--	--	µg/kg	-		-	
Methyl tert-Butyl Ether	SOM02.2	--	--	--	µg/kg	-		-	
Methylcylohexane	SOM02.2	--	--	--	µg/kg	-		-	
Methylene Chloride	SOM02.2	--	--	--	µg/kg	-		-	
o-Xylene	SOM02.2	--	--	--	µg/kg	-		-	
Styrene	SOM02.2	--	--	--	µg/kg	-		-	
Tetrachloroethene	SOM02.2	--	--	--	µg/kg	-		-	
Toluene	SOM02.2	890	1345	1800	µg/kg	-		-	
trans-1,2-Dichloroethene	SOM02.2	--	--	--	µg/kg	-		-	
trans-1,3-Dichloropropene	SOM02.2	--	--	--	µg/kg	-		-	
Trichloroethene	SOM02.2	--	--	--	µg/kg	-		-	
Trichlorofluoromethane	SOM02.2	--	--	--	µg/kg	-		-	
Vinyl Chloride	SOM02.2	--	--	--	µg/kg	-		-	
Xylenes (total)	SOM02.2	25	37.5	50	µg/kg	-		-	
Semi-Volatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-	
1,4-Dioxane	SOM02.2	--	--	--	µg/kg	-		-	
2,2'-Oxybis(1-Chloropropane)	SOM02.2	--	--	--	µg/kg	-		-	
2,3,4,6-Tetrachlorophenol	SOM02.2	--	--	--	µg/kg	-		-	
2,4,5-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-	
2,4,6-Trichlorophenol	SOM02.2	--	--	--	µg/kg	-		-	
2,4-Dichlorophenol	SOM02.2	--	--	--	µg/kg	-		-	
2,4-Dimethyl Phenol	SOM02.2	290	--	290	µg/kg	-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
2,4-Dinitrophenol	SOM02.2	--	--	--	µg/kg	-		-	
2,4-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-	
2,6-Dinitrotoluene	SOM02.2	--	--	--	µg/kg	-		-	
2-Chloronaphthalene	SOM02.2	--	--	--	µg/kg	-		-	
2-Chlorophenol	SOM02.2	--	--	--	µg/kg	-		-	
2-Methylnaphthalene	SOM02.2	20.2	111	201	µg/kg	-		-	
2-Methylphenol	SOM02.2	6700	--	6700	µg/kg	-		-	
2-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-	
2-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-	
3,3'-Dichlorobenzidine	SOM02.2	--	--	--	µg/kg	-		-	
3-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-	
4,6-Dinitro-2-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-	
4-Bromodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-	
4-Chloro-3-methylphenol	SOM02.2	--	--	--	µg/kg	-		-	
4-Chlorodiphenyl ether	SOM02.2	--	--	--	µg/kg	-		-	
4-Methylphenol	SOM02.2	--	--	--	µg/kg	-		-	
4-Nitrophenol	SOM02.2	--	--	--	µg/kg	-		-	
Acenaphthene	SOM02.2	6.7	48	89	µg/kg	-		-	
Acenaphthylene	SOM02.2	5.9	67	128	µg/kg	-		-	
Acetophenone	SOM02.2	--	--	--	µg/kg	-		-	
Anthracene	SOM02.2	57.2	451	845	µg/kg	-		-	
Atrazine	SOM02.2	--	--	--	µg/kg	-		-	
Benzaldehyde	SOM02.2	--	--	--	µg/kg	-		-	
Benzo (a) anthracene	SOM02.2	108	579	1050	µg/kg	-		-	
Benzo (a) pyrene	SOM02.2	150	800	1450	µg/kg	-		-	
Benzo (b) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-	
Benzo (ghi) perylene	SOM02.2	170	1685	3200	µg/kg	-		-	
Benzo (k) fluoranthene	SOM02.2	240	6820	13400	µg/kg	-		-	
Biphenyl	SOM02.2	--	--	--	µg/kg	-		-	
bis(2-Chloroethoxy) Methane	SOM02.2	--	--	--	µg/kg	-		-	
Bis-(2-Chloroethyl) Ether	SOM02.2	--	--	--	µg/kg	-		-	
bis(2-Ethylhexyl)phthalate	SOM02.2	--	--	--	µg/kg	-		-	
Butyl Benzyl Phthalate	SOM02.2	--	--	--	µg/kg	-		-	
Caprolactam	SOM02.2	--	--	--	µg/kg	-		-	
Carbazole	SOM02.2	--	--	--	µg/kg	-		-	
Chrysene	SOM02.2	166	728	1290	µg/kg	-		-	
Dibenz (a,h) anthracene	SOM02.2	33	84	135	µg/kg	-		-	
Dibenzofuran	SOM02.2	150	365	580	µg/kg	-		-	
Diethyl Phthalate	SOM02.2	610	855	1100	µg/kg	-		-	
Dimethyl Phthalate	SOM02.2	530	--	530	µg/kg	-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
Di-n-Butylphthalate	SOM02.2	2200	9600	17000	µg/kg	-		-	
Di-n-Octyl phthalate	SOM02.2	580	22790	45000	µg/kg	-		-	
Fluoranthene	SOM02.2	423	1327	2230	µg/kg	-		-	
Fluorene	SOM02.2	77.4	307	536	µg/kg	-		-	
Hexachlorobenzene	SOM02.2	--	--	--	µg/kg	-		-	
Hexachlorobutadiene	SOM02.2	--	--	--	µg/kg	-		-	
Hexachlorocyclopentadiene	SOM02.2	--	--	--	µg/kg	-		-	
Hexachloroethane	SOM02.2	--	--	--	µg/kg	-		-	
Indeno (1,2,3-cd) pyrene	SOM02.2	200	1700	3200	µg/kg	-		-	
Isophorone	SOM02.2	--	--	--	µg/kg	-		-	
Naphthalene	SOM02.2	176	369	561	µg/kg	-		-	
Nitrobenzene	SOM02.2	--	--	--	µg/kg	-		-	
N-Nitroso-Di-N-Propylamine	SOM02.2	--	--	--	µg/kg	-		-	
N-Nitrosodiphenylamine	SOM02.2	--	--	--	µg/kg	-		-	
P-Chloroaniline	SOM02.2	--	--	--	µg/kg	-		-	
Pentachlorophenol	SOM02.2	150	175	200	µg/kg	-		-	
Phenanthrene	SOM02.2	204	687	1170	µg/kg	-		-	
Phenol	SOM02.2	4200	8100	12000	µg/kg	-		-	
P-Nitroaniline	SOM02.2	--	--	--	µg/kg	-		-	
Pyrene	SOM02.2	195	858	1520	µg/kg	-		-	
Metals									
Ammonia	E350.1	--	--	--	mg/kg	-		-	
Aluminium	ISM02	--	--	--	mg/kg	**8850**	*	**12200**	*
Antimony	ISM02	2	13.5	25	mg/kg	< 8.9	U*	< 9	U*
Arsenic	ISM02	9.8	21.4	33	mg/kg	**3.5**		**4**	
Barium	ISM02	--	--	--	mg/kg	**90.4**		**95.5**	
Beryllium	ISM02	--	--	--	mg/kg	0.42	J*	0.57	J*
Cadmium	ISM02	0.99	3	5	mg/kg	0.43	J	0.48	J
Calcium	ISM02	--	--	--	mg/kg	**14500**		**14000**	
Chromium	ISM02	43	76.5	110	mg/kg	**26.6**	*	**26.7**	*
Cobalt	ISM02	--	--	--	mg/kg	6.7	J	**9.1**	
Copper	ISM02	32	91	150	mg/kg	**22.9**		**25.8**	
Iron	ISM02	20000	30000	40000	mg/kg	**20000**	*	**24100**	*
Lead	ISM02	36	83	130	mg/kg	**52.5**	*	**18.3**	*
Magnesium	ISM02	--	--	--	mg/kg	**8160**		**10200**	
Manganese	ISM02	460	780	1100	mg/kg	**605**		**625**	
Mercury	ISM02	0.18	0.64	1.1	mg/kg	< 0.19		0.059	J
Nickel	ISM02	23	36	49	mg/kg	**15.8**		**21.8**	
Potassium	ISM02	--	--	--	mg/kg	**1190**		**1560**	
Selenium	ISM02	--	--	--	mg/kg	0.67	J	0.8	J

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
Silver	ISM02	1.6	1.9	2.2	mg/kg	< 1.5		< 1.5	
Sodiium	ISM02	--	--	--	mg/kg	500	J	337	J
Thallium	ISM02	--	--	--	mg/kg	< 3.7		< 3.7	
Vanadium	ISM02	--	--	--	mg/kg	**30.5**		**39.2**	
Zinc	ISM02	120	290	460	mg/kg	**80**	*	**87.2**	*
Cadmium	SW6010	0.99	3	5	mg/kg	**< 2.2**		**< 2.4**	
Copper	SW6010	32	91	150	mg/kg	9.7	J	8.2	J
Lead	SW6010	36	83	130	mg/kg	**15.1**		**14.9**	
Mercury	SW7470	0.18	0.64	1.1	mg/kg	< 0.0093		< 0.0099	
Nickel	SW6010	23	36	49	mg/kg	3.2	J	4.3	J
Zinc	SW6010	120	290	460	mg/kg	**41.9**		**57.7**	
AVS/SEM									
Acid volatile sulfides	AVS	--	--	--	mg/kg	**51.8**		< 31.8	
Acid volatile sulfides	AVS_UM/G	--	--	--	mg/kg	**1.6**		< 0.99	
Acid volatile sulfides	SW6010	--	--	--	mg/kg	**0.569**		0	
Cadmium	SW6010_SEM	0.99	3	5	mg/kg	< 0.02		< 0.021	
Copper	SW6010_SEM	32	91	150	mg/kg	0.15	J	0.13	J
Lead	SW6010_SEM	36	83	130	mg/kg	**0.073**		**0.072**	
Nickel	SW6010_SEM	23	36	49	mg/kg	0.055	J	0.073	J
Zinc	SW6010_SEM	120	290	460	mg/kg	**0.64**		**0.88**	
Mercury	SW7470_SEM	0.18	0.64	1.1	mg/kg	< 0.0000460		< 0.0000500	
Polychlorinated Biphenyls									
Aroclor 1016	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1221	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1232	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1242	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1248	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1254	SOM02.2	--	--	--	µg/kg	33	J	11	J
Aroclor 1260	SOM02.2	--	--	--	µg/kg	31	J	14	J
Aroclor 1262	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Aroclor 1268	SOM02.2	--	--	--	µg/kg	< 62		< 69	
Total PCBs (NDs=0)	Calculated	60	368	676	µg/kg	64		25	
Pesticides									
4,4'-DDD	SOM02.2	--	--	--	µg/kg	-		-	
4,4'-DDE	SOM02.2	--	--	--	µg/kg	-		-	
4,4'-DDT	SOM02.2	--	--	--	µg/kg	-		-	
Aldrin	SOM02.2	2	41	80	µg/kg	-		-	
alpha-BHC	SOM02.2	6	53	100	µg/kg	-		-	
alpha-Chlordane	SOM02.2	--	--	--	µg/kg	-		-	
beta-BHC	SOM02.2	5	108	210	µg/kg	-		-	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
beta-Chlordane	SOM02.2	--	--	--	µg/kg	-		-	
Chlorobromomethane	SOM02.2	--	--	--	µg/kg	-		-	
delta-BHC	SOM02.2	3	62	120	µg/kg	-		-	
Dieldrin	SOM02.2	1.9	32	62	µg/kg	-		-	
Endosulfan I	SOM02.2	--	--	--	µg/kg	-		-	
Endosulfan II	SOM02.2	--	--	--	µg/kg	-		-	
Endosulfan Sulfate	SOM02.2	--	--	--	µg/kg	-		-	
Endrin	SOM02.2	2.2	104.6	207	µg/kg	-		-	
Endrin Aldehyde	SOM02.2	--	--	--	µg/kg	-		-	
Endrin Ketone	SOM02.2	--	--	--	µg/kg	-		-	
gamma-BHC (Lindane)	SOM02.2	3	4	5	µg/kg	-		-	
Heptachlor	SOM02.2	--	--	--	µg/kg	-		-	
Heptachlor Epoxide	SOM02.2	2.5	9.3	16	µg/kg	-		-	
M-Dichlorobenzene	SOM02.2	--	--	--	µg/kg	-		-	
Methoxychlor	SOM02.2	--	--	--	µg/kg	-		-	
Total DDT	SOM02.2	--	--	--	µg/kg	-		-	
Toxaphene	SOM02.2	1	1.5	2	µg/kg	-		-	
Dioxins/Furans									
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-	
OCDD	E1613B	--	--	--	pg/g	-		-	
OCDF	E1613B	--	--	--	pg/g	-		-	
Organotins									
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	< 2.4		< 2.6	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 39	U*cn	< 42	U*cn
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 3.2		< 3.5	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	SW15-SLB17		SW15-SLB18	
					Sample ID	SW15-SLB17-SURF_07/08/2015 08:45		SW15-SLB18-SURF_07/08/2015 09:45	
					Date	07-08-2015		07-08-2015	
					Sample Depth (ftbss)	0 - 0.5		0 - 0.5	
Parameter	Analytical Method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**2.9**	p	< 3.1	
Other									
Total Organic Carbon	TOC	--	--	--	%	**1.56**	B	**1.72**	B
Moisture	E160.3	--	--	--	%	-		-	
Solids, Total	E160.3	--	--	--	%	**52.8**		**48.5**	

Table 1-2
2016 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

Footnotes:
< : Denotes concentration less than indicated detection limit
< Bolded with concentration underlined: Denotes concentration was less than indicated detection limit, but above one or more comparison criteria.
Bold = analyte detected above laboratory reporting limit.
Highlighted Yellow = Exceeds one or more WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC, MEC or PEC)
WI-WDNR-SE-INT-2003-TEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC-threshold effect concentration)
WI-WDNR-SE-INT-2003-MEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. MEC-midpoint effect concentration)
WI-WDNR-SE-INT-2003-PEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003.(PEC-probable effect concentration).
N = Sample type is a normal sample.
ND = Non-detects
"-" = Not analyzed
"--" = No Standard/Guideline
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
pg/g = picogram per gram.
% = percent
ft bss: feet below sediment surface
AVS = Acid Volatile Sulfide
SEM = Simultaneously Extractable Metals
* = Post-digestion spike at 2 times the parent concentration.
B =Corresponding result report in the associated method blank.
D = Surrogate value being reported is from a diluted anlaysis and the results will be consiidered diluted.
J = Analyte present. Reported value may not be accurate or precise (estimated value).
P = The RPD between the primary and the confirmation columns is greater than 40%.
U* = Not detected above the level of the associated value. The associated value is either the approximate sample quantitation or detection limit.
JB = Analyte present. Reported value may not be accurate or precise (estimated value). Corresponding result report in the associated method blank.
JP = Analyte present. Reported value may not be accurate or precise (estimated value). The RPD between the primary and the confirmation columns is greater than 40%.
BJ = Analyte present. Reported value may not be accurate or precise (estimated value). Corresponding result report in the associated method blank.
QB = No analytical result. Corresponding result report in the associated method blank.
QBJ = No analytical result. Corresponding result report in the associated method blank. Analyte present. Reported value may not be accurate or precise (estimated value).
QJ = No analytical result. Analyte present. Reported value may not be accurate or precise (estimated value).
Definitions were not found for the following flags: *, C, F1, Ucn*, U*cn, and lower case p

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	**350**	D	-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	**520**	D	-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	**100**	J D	-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	**36**	J D	-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	**260**	D	-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	**810**	D	-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	**840**	D	-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	**1100**	D	-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	**640**	D	-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	**850**	D	-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	**840**	D	-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	**630**	D	-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1600**	D	-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	**170**	D	-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**590**	D	-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**940**	D	-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	**480**	D	-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1500**	D	-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	**280**	D	-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1300**	D	-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**940**	D	-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	**300**	D	-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 160		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	**430**	D	-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1000**	D	-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**740**	D	-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 160		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**830**	D	-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**550**	D	-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	**1200**	D	-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	**220**	D	-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	**1900**	D	-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	**160**	D	-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	**600**	D	-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	**310**	D	-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	**210**	D	-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	**1400**	D	-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	**1700**	D	-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	**12000**		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	**25000**		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**19600**		**17700**		**11500**		**14000**		**9680**	
Antimony	SW6010	2	13.5	25	mg/kg	1.3	J *	1.3	J *	0.96	J *	0.79	J *	< 8.3	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**8.3**		**7.5**		**6**		**5.1**		**3.6**	
Barium	SW6010	--	--	--	mg/kg	**165**		**139**		**157**		**170**		**79.5**	
Beryllium	SW6010	--	--	--	mg/kg	**1**		**0.8**		0.63	J	0.68	J	0.48	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.76	J	0.72	J	**0.97**		0.74	J	0.49	J
Calcium	SW6010	--	--	--	mg/kg	**32600**		**25200**		**7830**		**15000**		**12400**	
Chromium	SW6010	43	76.5	110	mg/kg	**42.6**		**51.1**		**34.9**		**23.8**		**20**	
Cobalt	SW6010	--	--	--	mg/kg	**13.5**		12.6		6.9	J	**7.9**		6.2	J
Copper	SW6010	32	91	150	mg/kg	**82.7**		**62.6**		**119**		**102**		**62.5**	
Iron	SW6010	20000	30000	40000	mg/kg	**35000**		**29100**		**17900**		**20400**		**14700**	
Lead	SW6010	36	83	130	mg/kg	**87.2**		**73.8**		**280**		**210**		**111**	
Magnesium	SW6010	--	--	--	mg/kg	**12300**		**11200**		**6280**		**10100**		**7700**	
Manganese	SW6010	460	780	1100	mg/kg	**598**	*	**525**		**210**	*	**271**	*	**175**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.14	J	< 0.15	J *	**9.5**	D	**3.3**	D	**1.6**	
Nickel	SW6010	23	36	49	mg/kg	**34.9**		**38.1**		**19**		**21.9**		**16.3**	
Potassium	SW6010	--	--	--	mg/kg	**2940**		**2680**		**1490**		**1760**		**1190**	
Selenium	SW6010	--	--	--	mg/kg	1.1	J	1.3	J	0.94	J	1	J	< 4.9	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.6		< 1.6		**3.4**		1.4	J	1.2	J
Sodiium	SW6010	--	--	--	mg/kg	485	J	399	J	274	J	295	J	247	J
Thallium	SW6010	--	--	--	mg/kg	< 4.1	U *	< 3.6	U *	< 4.4	U *	< 4	U *	< 3.5	U *
Vanadium	SW6010	--	--	--	mg/kg	**54.1**		**48**		**31.5**		**40**		**33.6**	
Zinc	SW6010	120	290	460	mg/kg	**218**		**147**	*	**385**		**290**		**165**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	< 11		< 7.7		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 11		< 7.7		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 11		< 7.7		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	4.5	J	3.7	J	-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	**240**		17	J	-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	< 11		< 7.7		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 53		< 39		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	10	J	< 7.7		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	< 11		< 7.7		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 11		< 7.7		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	< 21		< 15		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 940**		**< 400**		180	J	76	J	< 240	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	1100	J	< 4000		< 9000		< 5600		< 2400	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**390**		**580**		**1200**		**670**		**56**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 940		< 400		100	J	36	J	< 240	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 940		35	J	**1600**		510	J	**260**	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	78	J	**93**		**1900**		**960**		**110**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	69	J	67	J	**420**		**310**		**55**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 1900		< 800		< 1800		< 1100		< 480	
Anthracene	SW8270D	57.2	451	845	µg/kg	190	J	**240**		**4300**		**1900**		**220**	
Atrazine	SW8270D	--	--	--	µg/kg	< 1900		< 800		< 1800		< 1100		< 480	
Benzaldehyde	SW8270D	--	--	--	µg/kg	94	J	< 800		140	J	55	J	25	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**650**		**560**		**7100**		**2800**		**650**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**720**		**670**		**6200**		**2500**		**590**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1100**		**820**		**6500**		**2600**		**750**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**730**		**690**		**4400**		**1900**		**460**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**310**		**250**		**2500**		**990**		**250**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	690	J	**640**		**3600**		**1500**		**380**	
Biphenyl	SW8270D	--	--	--	µg/kg	< 940		57	J	300	J	190	J	18	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	460	J	250	J	< 9000		< 5600		< 2400	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Caprolactam	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
Carbazole	SW8270D	--	--	--	µg/kg	97	J	92		**1200**		**590**		47	J
Chrysene	SW8270D	166	728	1290	µg/kg	**920**		**810**		**6600**		**2600**		**650**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	170	J	**180**		**1100**		**460**		**120**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	120	J	130	J	**1400**		**720**		74	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	**< 940**		< 400		**< 900**		< 560		< 240	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	**< 940**		< 400		**< 900**		**< 560**		< 240	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 940		< 400		< 900		< 560		< 240	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	**< 940**		< 400		**< 900**		< 560		< 240	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**1400**		**1200**		**17000**		**6700**		**1500**	
Fluorene	SW8270D	77.4	307	536	µg/kg	120	J	**140**		**2400**		**1200**		**130**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**550**		**460**		**3500**		**1600**		**400**	
Isophorone	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Naphthalene	SW8270D	176	369	561	µg/kg	**210**		**300**		**4000**		**1700**		**120**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 1900		< 800		< 1800		< 1100		< 480	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 190		< 80		< 180		< 110		< 48	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 940		< 400		< 900		< 560		< 240	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 4900**		**< 2000**		**< 4600**		**< 2900**		**< 1200**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**870**		**910**		**15000**		**6700**		**800**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 940		< 400		< 900		41	J	< 240	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4900		< 2000		< 4600		< 2900		< 1200	
Pyrene	SW8270D	195	858	1520	µg/kg	**1300**		**1000**		**14000**		**5600**		**1200**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1254	SW8081	--	--	--	µg/kg	**150**		**120**		< 73		< 57		< 49	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 64		< 54		< 73		< 57		< 49	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**150**		**120**		0		0		0	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 2.5		< 2.2		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		< 34		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 3.2		< 2.8		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 2.9**		**< 2.5**		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01	
					Sample ID	ND20-TB01-SURF_06/29/2020		ND20-TB01-0320_06/30/2020		ND20-TB01-1012_06/30/2020		ND20-TB01-1214_06/30/2020		ND20-TB01-1416_06/30/2020	
					Date	06-29-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		10 - 12		12 - 14		14 - 16	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	**430**	B	**280**	B	-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	**130**	B	**85**	B	-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	**5**	B	< 4.8	J B	-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	**8.8**	B	**5.1**	B	-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	**10.6**	I	**6.1**		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	**27**	B	**18**		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	**5.7**		**6**		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	**26**	B	**17**		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	< 4.9		< 4.8		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	**6.1**		**4.9**		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	1.7	J	1.5	J	-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	4	J	2.7	J	-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	2.85	J B	2.3	J	-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	**1.7**		**1.9**		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	**2.6**		**2.3**		-		-		-	
OCDD	E1613B	--	--	--	pg/g	**2900**	B	**1900**	B	-		-		-	
OCDF	E1613B	--	--	--	pg/g	**260**	B	**180**	B	-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**92**		**68**		**130**		**74**		**45**	
Total Organic Carbon	SW9060	--	--	--	%	**5.19**	N	**4.04**		**6.14**		**3.54**		**2.18**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**17500**		**10700**		**11000**		**8350**		**11000**	
Antimony	SW6010	2	13.5	25	mg/kg	1.3	J *	1.8	J *	**2.9**	J *	1.3	J *	0.58	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**6.8**		**6.8**		**9.4**		**5.9**		**4.9**	*
Barium	SW6010	--	--	--	mg/kg	**164**		**182**		**263**		**188**		**89.6**	
Beryllium	SW6010	--	--	--	mg/kg	0.81	J	0.69	J	**0.8**		0.46	J	0.53	J
Cadmium	SW6010	0.99	3	5	mg/kg	**1**		**1.8**		**2.7**		**1.1**		0.3	J
Calcium	SW6010	--	--	--	mg/kg	**18800**		**16800**		**13900**		**10000**		**14400**	*
Chromium	SW6010	43	76.5	110	mg/kg	**48.6**		**30.9**		**31.8**		**22.3**		**21.8**	
Cobalt	SW6010	--	--	--	mg/kg	**12.6**		**7.9**		**8.3**		6.1	J	**9.8**	
Copper	SW6010	32	91	150	mg/kg	**72.5**		**137**		**135**		**80.7**		**32.6**	*
Iron	SW6010	20000	30000	40000	mg/kg	**29500**		**20000**		**20600**		**16800**		**20500**	
Lead	SW6010	36	83	130	mg/kg	**136**		**253**		**386**		**299**		**36.7**	
Magnesium	SW6010	--	--	--	mg/kg	**11400**		**7210**		**6470**		**5360**		**6470**	*
Manganese	SW6010	460	780	1100	mg/kg	**515**		**293**		**225**		**345**		**408**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.26**	*	**1.9**	*	**6.2**	D *	**11.3**	D *	< 0.14	J
Nickel	SW6010	23	36	49	mg/kg	**33.5**		**23.6**		**24.2**		**17.2**		**20.6**	
Potassium	SW6010	--	--	--	mg/kg	**2440**		**1370**		**1360**		**980**		**1560**	
Selenium	SW6010	--	--	--	mg/kg	1.4	J	1.9	J	2	J	1.3	J	< 3.9	
Silver	SW6010	1.6	1.9	2.2	mg/kg	0.26	J	**5.5**		**2**		1.2	J	< 1.1	
Sodiium	SW6010	--	--	--	mg/kg	373	J	290	J	316	J	268	J	252	J
Thallium	SW6010	--	--	--	mg/kg	< 4.2	U *	< 3.7	U *	0.63	J *	< 3.6	U *	< 2.8	U *
Vanadium	SW6010	--	--	--	mg/kg	**48.6**		**33**		**32.7**		**26.5**		**33.9**	
Zinc	SW6010	120	290	460	mg/kg	**211**	*	**393**	*	**681**	*	**433**	*	**72.9**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	< 8.4		-		-		-		< 7.5	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 8.4		-		-		-		< 7.5	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 8.4		-		-		-		< 7.5	
2-Butanone	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Acetone	SW8260	--	--	--	µg/kg	13	J	-		-		-		**180**	
Benzene	SW8260	57	83.5	110	µg/kg	< 8.4		-		-		-		< 7.5	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Bromoform	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Bromomethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
CFC-12	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Chloroethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Chloroform	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Chloromethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 42		-		-		-		< 37	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Methylcylohexane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Methylene Chloride	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
o-Xylene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Styrene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Toluene	SW8260	890	1345	1800	µg/kg	< 8.4		-		-		-		< 7.5	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Trichloroethene	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 8.4		-		-		-		< 7.5	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	< 17		-		-		-		< 15	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 1100**		**< 6500**		**< 3500**		**< 1200**		**< 610**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 11000		< 65000		< 35000		< 12000		< 6100	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**620**		**12000**		**2500**		**1000**		**530**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 1100		< 6500		< 3500		31	J	< 610	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 1100		750	J	530	J	870	J	40	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**280**		**6400**		**1900**		**1600**		**62**	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	140	J	**< 1300**		**950**		**570**		**32**	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 2300		< 13000		< 7200		< 2500		< 1200	
Anthracene	SW8270D	57.2	451	845	µg/kg	**590**		**6300**		**2500**		**2800**		**170**	
Atrazine	SW8270D	--	--	--	µg/kg	< 2300		< 13000		< 7200		< 2500		< 1200	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 2300		< 13000		< 7200		< 2500		< 1200	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**1400**		**6300**		**6100**		**6700**		**400**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**1500**		**6100**		**6200**		**6000**		**370**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1800**		**6200**		**7100**		**7100**		**360**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**1200**		**4900**		**4800**		**4200**		**440**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**610**		**2600**		**2500**		**2400**		**140**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	1100	J	5100	J	**4200**		**3700**		400	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		220	J	38	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	700	J	< 65000		< 35000		< 12000		< 6100	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		100	J
Caprolactam	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
Carbazole	SW8270D	--	--	--	µg/kg	180	J	< 1300		690	J	**940**		82	J
Chrysene	SW8270D	166	728	1290	µg/kg	**1600**		**8100**		**6800**		**7300**		**490**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**310**		**1400**		**1200**		**1000**		**190**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	200	J	< 6500		1200	J	1000	J	90	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**3200**		**14000**		**15000**		**13000**		**700**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**360**		**6000**		**1900**		**1800**		99	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**950**		**3500**		**4000**		**3700**		**250**	
Isophorone	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Naphthalene	SW8270D	176	369	561	µg/kg	**320**		**1900**		**1400**		**1900**		**220**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 2300		< 13000		< 7200		< 2500		< 1200	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 230		< 1300		< 720		< 250		< 120	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 1100		< 6500		< 3500		< 1200		< 610	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**2100**		**29000**		**12000**		**13000**		**630**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 1100		< 6500		< 3500		41	J	< 610	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 33000		< 18000		< 6400		< 3200	
Pyrene	SW8270D	195	858	1520	µg/kg	**2500**		**18000**		**12000**		**14000**		**760**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1254	SW8081	--	--	--	µg/kg	**130**		**160**		46	J	< 63		**51**	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 61		< 67		< 75		< 63		< 50	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 61		33	J	37	J	< 63		< 50	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**130**		**193**		**83**		0		**51**	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 2.4		-		-		< 2.4		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 38		-		-		< 39		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 3.2		-		-		< 3.2		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	< 2.8		-		-		< 2.8		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB01		ND20-TB02	
					Sample ID	ND20-TB01-2040_06/30/2020		ND20-TB01-4060_06/30/2020		ND20-TB01-6080_06/30/2020		ND20-TB01-8010_06/30/2020		ND20-TB02-SURF_06/28/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**81**		**97**		**120**		**84**		**50**	
Total Organic Carbon	SW9060	--	--	--	%	**4.49**		**10.2**		**11**		**5.63**		**2.25**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**15400**		**10600**		**11100**		**7500**		**13500**	
Antimony	SW6010	2	13.5	25	mg/kg	1.1	J *	0.97	J *	1.3	J *	2	J *	0.6	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**5.5**		**4.5**		**4.9**		**6.1**		**5.1**	
Barium	SW6010	--	--	--	mg/kg	**123**		**96.7**		**182**		**192**		**121**	
Beryllium	SW6010	--	--	--	mg/kg	**0.71**		**0.62**		**0.64**		0.47	J	**0.69**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.41	J	**0.67**		**1.4**		**3.3**		0.41	J
Calcium	SW6010	--	--	--	mg/kg	**19900**		**12700**		**15000**		**7920**		**16900**	
Chromium	SW6010	43	76.5	110	mg/kg	**30.6**		**30.4**		**29.7**		**27.5**		**26**	
Cobalt	SW6010	--	--	--	mg/kg	**13.8**		**9.8**		**9.9**		6	J	**19.2**	
Copper	SW6010	32	91	150	mg/kg	**40**		**47.2**		**85**		**146**		**34**	
Iron	SW6010	20000	30000	40000	mg/kg	**24800**		**19800**		**19900**		**14200**		**23000**	
Lead	SW6010	36	83	130	mg/kg	**40.6**		**105**		**457**		**2070**	D	**34.4**	
Magnesium	SW6010	--	--	--	mg/kg	**8930**		**5830**		**6460**		**4350**		**7560**	
Manganese	SW6010	460	780	1100	mg/kg	**580**		**407**		**329**		**133**		**897**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.12	U *	**0.25**	*	**0.47**	*	**9.2**	D *	< 0.12	U *
Nickel	SW6010	23	36	49	mg/kg	**29.4**		**22**		**23.8**		**18.2**		**33.5**	
Potassium	SW6010	--	--	--	mg/kg	**2320**		**1400**		**1400**		**908**		**1900**	
Selenium	SW6010	--	--	--	mg/kg	0.89	J	1.1	J	1.2	J	1.6	J	0.88	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.2		0.12	J	**3.8**		**1.8**		< 1	
Sodiium	SW6010	--	--	--	mg/kg	318	J	235	J	267	J	226	J	276	J
Thallium	SW6010	--	--	--	mg/kg	< 3	U *	< 3.3	U *	< 3	U *	< 3.5	U *	< 2.7	U *
Vanadium	SW6010	--	--	--	mg/kg	**44**		**33.7**		**34.8**		**25**		**44.7**	
Zinc	SW6010	120	290	460	mg/kg	83.8	*	**148**	*	**271**	*	**571**	*	**78**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		< 7.2		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		< 7.2		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		< 7.2		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		14	J	-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		< 7.2		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		< 36		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		5	J	-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		< 7.2	J	-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		1.3	J	-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		< 7.2		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		< 7.2		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		1.3	J	-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 610**		**< 1900**		**< 4800**		**< 2100**		**< 330**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 6100		< 19000		< 48000		< 21000		< 3300	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**690**		**1500**		**5400**		**1900**		**480**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
4-Methylphenol	SW8270D	--	--	--	µg/kg	35	J	180	J	600	J	420	J	50	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**150**		**850**		**5400**		**3800**		**< 67**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**30**	J	**120**	J	**< 980**		**370**	J	**< 67**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 1200		< 4000		< 9800		< 4200		< 670	
Anthracene	SW8270D	57.2	451	845	µg/kg	**240**		**1800**		**6700**		**6200**		**150**	
Atrazine	SW8270D	--	--	--	µg/kg	< 1200		< 4000		< 9800		< 4200		< 670	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 1200		< 4000		< 9800		< 4200		< 670	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**540**		**3300**		**9000**		**9700**		**320**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**510**		**2600**		**6800**		**8400**		**290**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**530**		**3300**		**7100**		**9600**		**370**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**550**		**1900**		**5400**		**5900**		**310**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**170**		**1100**		**3000**		**3200**		**110**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	480	J	**2000**		**5300**		**5100**		280	J
Biphenyl	SW8270D	--	--	--	µg/kg	52	J	130	J	270	J	300	J	41	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	72	J	770	J	430	J	< 21000		720	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 610		200	J	< 4800		< 2100		< 330	
Caprolactam	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
Carbazole	SW8270D	--	--	--	µg/kg	110	J	**690**		**1800**		**2700**		< 67	
Chrysene	SW8270D	166	728	1290	µg/kg	**680**		**3600**		**10000**		**9400**		**420**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**150**		**570**		**1500**		**1400**		**83**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	150	J	540	J	1600	J	**2300**		**< 330**	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 610		**< 1900**		**< 4800**		**< 2100**		< 330	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	**< 610**		**< 1900**		**< 4800**		**< 2100**		< 330	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 610		< 1900		**< 4800**		< 2100		< 330	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	**< 610**		**< 1900**		**< 4800**		**< 2100**		< 330	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**870**		**6300**		**17000**		**21000**		**540**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**180**		**940**		**5800**		**3700**		**130**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**280**		**1500**		**4100**		**5100**		**210**	
Isophorone	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
Naphthalene	SW8270D	176	369	561	µg/kg	**330**		**690**		**1800**		**3300**		**190**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 1200		< 3900		< 9700		< 4200		< 670	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 120		< 400		< 980		< 420		< 67	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 610		< 1900		< 4800		< 2100		< 330	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 3100**		**< 10000**		**< 25000**		**< 11000**		**< 1700**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**1100**		**6400**		**32000**		**25000**		**590**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 610		< 1900		**< 4800**		64	J	< 330	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3100		< 10000		< 25000		< 11000		< 1700	
Pyrene	SW8270D	195	858	1520	µg/kg	**1200**		**6700**		**22000**		**20000**		**610**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	32	J	**130**		**330**		10	J	-	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		< 55		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 46		< 47		< 49		6.4	J	-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	32		**130**		**330**		16		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB02	
					Sample ID	ND20-TB02-0320_06/30/2020		ND20-TB02-1012_06/30/2020		ND20-TB02-1214_06/30/2020		ND20-TB02-1416_06/30/2020		ND20-TB02-2040_06/30/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-30-2020		06-30-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**40**		**43**		**43**		**67**		-	
Total Organic Carbon	SW9060	--	--	--	%	**2.88**		**4.1**		**5.61**		**5.28**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**190**	J D	-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		**360**	D	-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		**71**	J D	-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		< 220		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		**190**	J D	-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		**650**	D	-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**670**	D	-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**790**	D	-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		**610**	D	-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**570**	D	-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**670**	D	-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**660**	D	-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**1400**	D	-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		< 220		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**370**	D	-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**770**	D	-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**550**	D	-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**1400**	D	-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**310**	D	-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**920**	D	-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**910**	D	-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**400**	D	-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**1000**	D	-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**510**	D	-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**970**	D	-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**830**	D	-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**260**	D	-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**850**	D	-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**610**	D	-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		**940**	D	-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		**180**	J D	-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		**1700**	D	-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		**130**	J D	-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		**480**	D	-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		**160**	J D	-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**170**	J D	-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		**1000**	D	-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		**1500**	D	-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**9600**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		**23000**		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**15800**		**15600**		**17100**		**18500**		**14000**	
Antimony	SW6010	2	13.5	25	mg/kg	0.82	J *	0.9	J *	0.76	J *	**2.8**	J *	1.1	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**5.1**		**4.6**		**4.7**		**7.5**		**6.6**	
Barium	SW6010	--	--	--	mg/kg	**127**		**125**		**152**		**142**		**110**	
Beryllium	SW6010	--	--	--	mg/kg	**0.77**		**0.75**		**0.82**		**0.95**		0.67	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.4	J	0.47	J	0.51	J	0.72	J	**0.69**	
Calcium	SW6010	--	--	--	mg/kg	**16600**		**18200**		**18200**		**29300**		**22600**	
Chromium	SW6010	43	76.5	110	mg/kg	**29.5**		**47.7**		**33.9**		**40.4**		**45**	
Cobalt	SW6010	--	--	--	mg/kg	**15.6**		**12.9**		**12.8**		**13.3**		**10**	
Copper	SW6010	32	91	150	mg/kg	**38.3**		**36.5**		**40.6**		**77.2**		**59.1**	
Iron	SW6010	20000	30000	40000	mg/kg	**24900**		**24600**		**25200**		**33400**		**26000**	
Lead	SW6010	36	83	130	mg/kg	**34.7**		**41.2**		**50.2**		**75**		**70.3**	
Magnesium	SW6010	--	--	--	mg/kg	**8580**		**9530**		9980		**11200**		**8830**	
Manganese	SW6010	460	780	1100	mg/kg	**658**		**539**		**512**		**594**	*	**622**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.12	U *	< 0.13	J *	< 0.12	J *	0.1	J	< 0.16	J *
Nickel	SW6010	23	36	49	mg/kg	**31.9**		**36.6**		**30**		**34**		**26.4**	
Potassium	SW6010	--	--	--	mg/kg	**2220**		**2300**		**2520**		**2750**		**2050**	
Selenium	SW6010	--	--	--	mg/kg	0.58	J	1.1	J	0.96	J	< 5.9		< 4.8	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.1		< 1.2		< 1.4		**< 1.7**		< 1.4	
Sodiium	SW6010	--	--	--	mg/kg	289	J	317	J	326	J	451	J	339	J
Thallium	SW6010	--	--	--	mg/kg	< 2.6	U *	< 3.3	U *	< 3.3	U *	< 4.2	U *	< 2.9	U *
Vanadium	SW6010	--	--	--	mg/kg	**45.8**		**42.8**		**44.2**		**53**		**42.1**	
Zinc	SW6010	120	290	460	mg/kg	**79.6**	*	**86.5**	*	99.3	*	**204**		**154**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		< 7.2		**< 11**		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		< 7.2		< 11		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		< 7.2		< 11		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		2.5	J	< 11		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		11	J	**170**		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		< 7.2		< 11		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		< 36		< 53		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		< 7.2	J	< 11		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		< 7.2		< 11		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		< 7.2		< 11		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		< 14		< 21		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 230		**< 350**		**< 1200**		**< 2400**		**< 1000**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 2300		< 3500		< 12000		< 24000		< 10000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**450**		**550**		**1800**		**530**		**370**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
4-Methylphenol	SW8270D	--	--	--	µg/kg	35	J	52	J	43	J	< 2400		< 1000	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**60**		63	J	140	J	120	J	110	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	26	J	28	J	54	J	110	J	59	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 470		< 710		< 2400		< 5000		< 2100	
Anthracene	SW8270D	57.2	451	845	µg/kg	**140**		**140**		**260**		280	J	210	J
Atrazine	SW8270D	--	--	--	µg/kg	< 470		< 710		< 2400		< 5000		< 2100	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 470		< 710		< 2400		< 5000		< 2100	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**180**		**290**		**700**		**890**		**580**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**170**		**260**		**610**		**940**		**550**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**200**		**310**		**580**		**1500**		**760**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**220**		**300**		**610**		**1100**		**490**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**71**		**92**		170	J	470	J	**240**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	190	J	270	J	570	J	970	J	500	J
Biphenyl	SW8270D	--	--	--	µg/kg	37	J	38	J	90	J	< 2400		30	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	55	J	280	J	< 12000		710	J	360	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		93	J
Caprolactam	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
Carbazole	SW8270D	--	--	--	µg/kg	< 47		58	J	110	J	150	J	83	J
Chrysene	SW8270D	166	728	1290	µg/kg	**250**		**380**		**810**		**1400**		**760**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**55**		**78**		**370**		**670**		120	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	88	J	89	J	160	J	130	J	98	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 230		< 350		**< 1200**		**< 2400**		**< 1000**	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 230		< 350		**< 1200**		**< 2400**		200	J
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 230		< 350		< 1200		**< 2400**		< 1000	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 230		< 350		**< 1200**		**< 2400**		**< 1000**	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**300**		**460**		**1000**		**1900**		**1200**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**90**		**91**		200	J	170	J	140	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**120**		**200**		**360**		**810**		**350**	
Isophorone	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
Naphthalene	SW8270D	176	369	561	µg/kg	**240**		**230**		**440**		260	J	190	J
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 460		< 710		< 2400		< 4900		< 2100	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 47		< 71		< 240		< 500		< 210	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 1200**		**< 1800**		**< 6200**		**< 13000**		**< 5400**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**420**		**470**		**980**		**1000**		**760**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 230		< 350		< 1200		< 2400		< 1000	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 6200		< 13000		< 5400	
Pyrene	SW8270D	195	858	1520	µg/kg	**360**		**490**		**1100**		**2000**		**1100**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		33	J	**150**		**340**	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		**3800**	D
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		< 49		< 66		< 53	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		33		**150**		**4140**	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		< 2.1	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		< 34	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		< 2.8	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		**< 2.5**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB02		ND20-TB02		ND20-TB02		ND20-TB03		ND20-TB03	
					Sample ID	ND20-TB02-4060_06/30/2020		ND20-TB02-6080_06/30/2020		ND20-TB02-8010_06/30/2020		ND20-TB03-SURF_06/29/2020		ND20-TB03-0320_07/01/2020	
					Date	06-30-2020		06-30-2020		06-30-2020		06-29-2020		07-01-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		**340**	B	-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		**100**	B	-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		4.57	J B	-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**5.6**	B	-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**9.6**	I	-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**20**	B	-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		4.1	J	-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**16**	B	-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		< 4.7		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		4.3	J	-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		1.7	J	-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		3.2	J	-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		2.24	J B	-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		**1.7**		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		**2.3**		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		**2700**	B	-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		**180**	B	-	
Other															
Moisture	SM2540	--	--	--	%	-		-		**47**		**97**		**61**	
Total Organic Carbon	SW9060	--	--	--	%	-		-		**3.05**		**3.94**		**4.6**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**21500**		**17100**		13300		**11400**		**20300**	
Antimony	SW6010	2	13.5	25	mg/kg	0.87	J *	1.5	J *	1.5	J *	1.4	J *	1.2	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**6**		**5.9**		7.8		**7.9**		7.6	*
Barium	SW6010	--	--	--	mg/kg	**175**		**159**		204		**240**		**154**	
Beryllium	SW6010	--	--	--	mg/kg	**0.99**		**0.83**		0.76	J	**0.75**		**0.85**	
Cadmium	SW6010	0.99	3	5	mg/kg	**0.77**		**1.4**		**2**		**2.5**		**0.8**	
Calcium	SW6010	--	--	--	mg/kg	**23000**		**16600**		15900		**10800**		**28900**	*
Chromium	SW6010	43	76.5	110	mg/kg	**48.2**		**48.9**		34.7		**27.7**		**45.4**	
Cobalt	SW6010	--	--	--	mg/kg	**14.3**		**11.6**		8.9		**8**		**14.3**	
Copper	SW6010	32	91	150	mg/kg	**60.1**		**73.8**		**112**		**131**		**77.1**	*
Iron	SW6010	20000	30000	40000	mg/kg	**32500**		**30200**		**23500**		**19800**		**36200**	
Lead	SW6010	36	83	130	mg/kg	**95.5**		**172**		**225**		**313**		**86.4**	
Magnesium	SW6010	--	--	--	mg/kg	**12800**		**11000**		8800		**7010**		**12700**	*
Manganese	SW6010	460	780	1100	mg/kg	**660**		**551**		339		**218**	*	**686**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.17	J *	**0.65**	*	**1.6**	*	**7.7**	D	**< 0.21**	J
Nickel	SW6010	23	36	49	mg/kg	**36.7**		**32.4**		**27**		**22.6**		**36.3**	
Potassium	SW6010	--	--	--	mg/kg	**3130**		**2320**		1810		**1490**		**2900**	
Selenium	SW6010	--	--	--	mg/kg	1.4	J	1.4	J	1.8	J	2.1	J	1	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.3		0.98	J	**5.5**		**1.9**		< 1.5	
Sodiium	SW6010	--	--	--	mg/kg	414	J	371	J	315	J	310	J	441	J
Thallium	SW6010	--	--	--	mg/kg	< 3.6	U *	< 3.3	U *	< 4.4	U *	< 3.2	U *	< 3.8	U *
Vanadium	SW6010	--	--	--	mg/kg	**54.2**		**47.3**		37.5		34.6		**54.3**	
Zinc	SW6010	120	290	460	mg/kg	**195**	*	**276**	*	**425**	*	**622**		**221**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		**< 9.3**	U *	**< 11**		**< 10**	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		< 9.3	U *	< 11		< 10	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		< 9.3	U *	< 11		< 10	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		< 9.3	U *	< 11		< 10	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Acetone	SW8260	--	--	--	µg/kg	-		-		28	J	**75**		**180**	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		< 9.3		< 11		< 10	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Bromoform	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
CFC-12	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Chloroform	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		2.8	J	< 11		< 10	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		4.8	J	< 11		< 10	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 9.3	U *	< 11		< 10	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		< 47		< 54		< 51	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		**26**		5.9	J	< 10	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		< 9.3	J	< 11		< 10	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		7.1	J	< 11		< 10	
Styrene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		< 9.3		< 11		< 10	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		< 9.3		< 11		< 10	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		7.1	J	< 22		< 21	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 1200**		**< 1800**		**< 3100**		**< 2100**		**< 870**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 12000		< 18000		< 31000		< 21000		< 8700	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**310**		**1100**		**16000**		**1500**		**320**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
4-Methylphenol	SW8270D	--	--	--	µg/kg	280	J	160	J	700	J	540	J	< 870	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**240**		**610**		**4300**		**970**		92	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	79	J	250	J	**840**		250	J	92	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 2300		< 3700		< 6300		< 4200		< 1800	
Anthracene	SW8270D	57.2	451	845	µg/kg	**410**		**1200**		**4000**		**1500**		**240**	
Atrazine	SW8270D	--	--	--	µg/kg	< 2300		< 3700		< 6300		< 4200		< 1800	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 2300		< 3700		< 6300		< 4200		< 1800	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**1000**		**3000**		**4700**		**3900**		**740**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**910**		**2600**		**3500**		**3300**		**730**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1200**		**3200**		**3900**		**4300**		**970**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**670**		**2000**		**2800**		**2500**		**740**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**450**		**1200**		**1400**		**1400**		**340**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	670	J	**2000**		2900	J	**2300**		630	J
Biphenyl	SW8270D	--	--	--	µg/kg	40	J	80	J	230	J	190	J	39	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	500	J	1200	J	< 31000		< 21000		430	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	83	J	< 1800		< 3100		< 2100		< 870	
Caprolactam	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
Carbazole	SW8270D	--	--	--	µg/kg	180	J	**400**		< 630		**490**		110	J
Chrysene	SW8270D	166	728	1290	µg/kg	**1200**		**3400**		**5800**		**4100**		**950**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	180	J	**500**		**660**		**670**		**300**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	160	J	370	J	1600	J	620	J	110	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 1200		< 1800		< 3100		< 2100		20	J
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 1200		< 1800		< 3100		< 2100		21	J
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**2500**		**6500**		**9500**		**7200**		**1600**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**270**		**750**		**4600**		**1200**		120	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**540**		**1600**		**1900**		**2100**		**570**	
Isophorone	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Naphthalene	SW8270D	176	369	561	µg/kg	200	J	**570**		**1600**		**1000**		**200**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 2300		< 3700		< 6300		< 4100		< 1800	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 230		< 370		< 630		< 420		< 180	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**1700**		**4700**		**19000**		**6600**		**840**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 1200		< 1800		< 3100		< 2100		< 870	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5900		< 9300		< 16000		< 11000		< 4500	
Pyrene	SW8270D	195	858	1520	µg/kg	**2000**		**5800**		**12000**		**8900**		**1500**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1254	SW8081	--	--	--	µg/kg	**140**		**170**		**200**		34	J	**160**	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 58		< 63		< 66		< 60		< 68	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 58		< 63		56	J	38	J	< 68	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**140**		**170**		**256**		72		**160**	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 2.3		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 37		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 3		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	< 2.7		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB03		ND20-TB04	
					Sample ID	ND20-TB03-2040_07/01/2020		ND20-TB03-4060_07/01/2020		ND20-TB03-6080_07/01/2020		ND20-TB03-8010_07/01/2020		ND20-TB04-SURF_06/28/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		**81**	B	-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		**240**	B	-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		3.58	J B	-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		2.14	J B	-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**9.1**		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**11**		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**8.8**		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**7.8**		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		< 4.8		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		2.7	J	-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		2.4	J	-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**8.3**		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		**7.4**		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		0.65	J	-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		**4.9**		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		**470**	B	-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		**93.9**	B	-	
Other															
Moisture	SM2540	--	--	--	%	**76**		**86**		**96**		**77**		**110**	
Total Organic Carbon	SW9060	--	--	--	%	**3.46**		**6.01**		**12.1**		**9.34**		**4.38**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**18700**		**10400**		**8670**		**5170**		**16200**	
Antimony	SW6010	2	13.5	25	mg/kg	1.6	J *	< 7	U *	< 6.2	U *	< 6.4	U *	2	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**9.1**		**3.2**		**3.2**		**2**		**9.5**	
Barium	SW6010	--	--	--	mg/kg	**187**		**79.1**		**57.5**		**30.2**		**242**	
Beryllium	SW6010	--	--	--	mg/kg	**1**		0.49	J	0.43	J	0.28	J	**0.99**	
Cadmium	SW6010	0.99	3	5	mg/kg	**1.5**		0.46	J	0.24	J	< 0.53		**2.3**	
Calcium	SW6010	--	--	--	mg/kg	**21000**		**8580**		**18200**		**21600**		**14100**	
Chromium	SW6010	43	76.5	110	mg/kg	**43.6**		**16.9**		**16.1**		**10.9**		**35.4**	
Cobalt	SW6010	--	--	--	mg/kg	**12.1**		5.8	J	**6**		4.2	J	**11**	
Copper	SW6010	32	91	150	mg/kg	**103**		**43.4**		**20.9**		**8.5**		**133**	
Iron	SW6010	20000	30000	40000	mg/kg	**34100**		**15100**		**13900**		**10900**		**27900**	
Lead	SW6010	36	83	130	mg/kg	**171**		**61.9**		**16.6**		**3.3**		**312**	
Magnesium	SW6010	--	--	--	mg/kg	**10900**		**6510**		**9900**		**8520**		**9230**	
Manganese	SW6010	460	780	1100	mg/kg	**656**	*	**186**	*	**203**	*	**175**	*	**333**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.47**		**0.62**		**0.45**		< 0.1		**4**	D
Nickel	SW6010	23	36	49	mg/kg	**33.3**		**15.7**		**15**		**10.9**		**29.8**	
Potassium	SW6010	--	--	--	mg/kg	**2590**		**1380**		**1200**		**649**		**1960**	
Selenium	SW6010	--	--	--	mg/kg	1.4	J	0.82	J	< 3.6		< 3.7		2.4	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	**2.4**		0.78	J	0.23	J	< 1.1		**1.6**	
Sodiium	SW6010	--	--	--	mg/kg	436	J	226	J	232	J	220	J	415	J
Thallium	SW6010	--	--	--	mg/kg	< 4.1	U *	< 2.9	U *	< 2.6	U *	< 2.7	U *	< 3.5	U *
Vanadium	SW6010	--	--	--	mg/kg	**50.1**		**28.9**		**29.8**		**25**		**42.9**	
Zinc	SW6010	120	290	460	mg/kg	**556**		**139**		**46.5**		**19**		**664**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	1.4	J	-		-		-		< 9.7	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 9.9		-		-		-		< 9.7	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 9.9		-		-		-		< 9.7	
2-Butanone	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Acetone	SW8260	--	--	--	µg/kg	**87**		-		-		-		32	J
Benzene	SW8260	57	83.5	110	µg/kg	< 9.9		-		-		-		< 9.7	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Bromoform	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Bromomethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
CFC-12	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Chloroethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Chloroform	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Chloromethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 50		-		-		-		< 49	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Methylcylohexane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Methylene Chloride	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
o-Xylene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Styrene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Toluene	SW8260	890	1345	1800	µg/kg	< 9.9		-		-		-		< 9.7	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Trichloroethene	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 9.9		-		-		-		< 9.7	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	< 20		-		-		-		< 19	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 3400**		9.7	J	< 110		< 21		**< 1700**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 34000		< 1200		< 1100		< 210		< 17000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**2200**		**120**		12	J	0.51	J	**1700**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
4-Methylphenol	SW8270D	--	--	--	µg/kg	110	J	**170**		35	J	0.83	J	420	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**2800**		**44**		19	J	0.63	J	**2600**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	400	J	**28**		10	J	0.6	J	330	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 7000		< 250		< 220		< 43		< 3400	
Anthracene	SW8270D	57.2	451	845	µg/kg	**3200**		**100**		**63**		1.9	J	**4200**	
Atrazine	SW8270D	--	--	--	µg/kg	< 7000		< 250		< 220		< 43		< 3400	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 7000		18	J	7	J	1.3	J	< 3400	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**3600**		**310**		**210**		**6.4**		**7900**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**2600**		**300**		**190**		**5.8**		**6300**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**2800**		**370**		**220**		**6.2**		**7900**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**2100**		**250**		**150**		**4.7**		**4400**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1000**		**120**		**85**		2.5	J	**2500**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	2000	J	**200**		**120**		3.5	J	**4100**	
Biphenyl	SW8270D	--	--	--	µg/kg	110	J	20	J	4.4	J	< 21		290	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	300	J	< 1200		< 1100		2.1	J	< 17000	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		2.4	J	< 1700	
Caprolactam	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
Carbazole	SW8270D	--	--	--	µg/kg	< 700		**26**		11	J	0.51	J	**1800**	
Chrysene	SW8270D	166	728	1290	µg/kg	**4200**		**310**		**190**		**5.7**		**8100**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	530	J	**63**		**34**		**4.8**		**1200**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	1100	J	68	J	17	J	0.74	J	**1800**	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	**< 3400**		< 120		< 110		0.93	J	**< 1700**	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	**< 3400**		< 120		< 110		< 21		**< 1700**	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	**< 3400**		< 120		< 110		1.2	J	< 1700	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	**< 3400**		< 120		< 110		< 21		**< 1700**	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**6400**		**480**		**260**		**13**		**16000**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**2900**		**61**		**24**		0.97	J	**3200**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**1500**		**210**		**120**		**4.3**		**3900**	
Isophorone	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
Naphthalene	SW8270D	176	369	561	µg/kg	550	J	**170**		**29**		1.8	J	**1900**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 7000		< 250		< 220		< 43		< 3400	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 700		< 25		< 22		< 4.3		< 340	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 18000**		**< 630**		**< 550**		< 110		**< 8700**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**15000**		**370**		**140**		**4.5**		**16000**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 3400		< 120		< 110		< 21		< 1700	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 18000		< 630		< 550		< 110		< 8700	
Pyrene	SW8270D	195	858	1520	µg/kg	**11000**		**550**		**430**		**12**		**15000**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1254	SW8081	--	--	--	µg/kg	**160**		-		-		-		19	J P
Aroclor 1260	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 63		-		-		-		< 64	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 63		-		-		-		33	J
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**160**		-		-		-		52	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB04	
					Sample ID	ND20-TB04-0320_07/01/2020		ND20-TB04-1012_07/01/2020		ND20-TB04-1214_07/01/2020		ND20-TB04-1416_07/01/2020		ND20-TB04-2040_07/01/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		07-01-2020		07-01-2020	
					Sample depth (ftbss)	0.3 - 2		10 - 12		12 - 14		14 - 16		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**89**		-		-		-		**99**	
Total Organic Carbon	SW9060	--	--	--	%	**7.18**		-		-		-		**9.38**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**13000**		**13700**		**11900**		**17400**		**15800**	
Antimony	SW6010	2	13.5	25	mg/kg	1.1	J *	**2.8**	J *	0.54	J *	1.2	J *	1.1	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**6.7**		**5.7**		**4.7**		7.7	*	**7.4**	
Barium	SW6010	--	--	--	mg/kg	**170**		**125**		**172**		**136**		**134**	
Beryllium	SW6010	--	--	--	mg/kg	0.68	J	0.7	J	**0.56**		0.74	J	**0.87**	
Cadmium	SW6010	0.99	3	5	mg/kg	**1**		**0.85**		**0.56**		0.75	J	**1.1**	
Calcium	SW6010	--	--	--	mg/kg	**32900**		**18400**		**13400**		**27800**	*	**15200**	
Chromium	SW6010	43	76.5	110	mg/kg	**24.8**		**27.2**		**17.3**		**38.8**		**41**	
Cobalt	SW6010	--	--	--	mg/kg	**8**		**8.4**		**7.9**		**12.3**		**10.5**	
Copper	SW6010	32	91	150	mg/kg	**108**		**89.2**		**65.2**		**69.3**	*	**67.5**	
Iron	SW6010	20000	30000	40000	mg/kg	**20400**		**21700**		**19900**		**32700**		**27900**	
Lead	SW6010	36	83	130	mg/kg	**192**		**177**		**434**		**82.5**		**131**	
Magnesium	SW6010	--	--	--	mg/kg	**7990**		**8760**		**7750**		**11000**	*	**9770**	
Manganese	SW6010	460	780	1100	mg/kg	**296**	*	**279**	*	**241**	*	**614**	*	**488**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**2.9**		**3**		**1.9**		**< 0.2**	J	**0.47**	
Nickel	SW6010	23	36	49	mg/kg	**21.8**		**23**		**20**		**31.4**		**28.9**	
Potassium	SW6010	--	--	--	mg/kg	**1440**		**1800**		**1630**		**2540**		**2140**	
Selenium	SW6010	--	--	--	mg/kg	0.93	J	< 5.9		0.66	J	< 5.7		1.1	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	1.4	J	**1.8**		0.94	J	< 1.6		0.32	J
Sodiium	SW6010	--	--	--	mg/kg	331	J	308	J	321	J	378	J	345	J
Thallium	SW6010	--	--	--	mg/kg	< 3.6	U *	< 4.2	U *	< 2.6	U *	< 4.1	U *	< 3.2	U *
Vanadium	SW6010	--	--	--	mg/kg	35.2		**40**		**42.5**		**47.3**		**42.3**	
Zinc	SW6010	120	290	460	mg/kg	**428**		**314**		**187**		**194**	*	**226**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		4.5	J
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		**< 12**		**< 9.8**	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		0.12	J	< 9.8	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		< 12		< 9.8	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		< 12		4.8	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		**290**		**42**	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		< 12		< 9.8	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		< 59		< 49	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		< 12		1.1	J
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		3.2	J	1.8	J
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		< 12		< 9.8	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		< 12		< 9.8	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		< 24		< 20	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 730**		**< 550**		**< 390**		**< 1000**		**< 2400**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 7300		< 5500		< 3900		< 10000		< 24000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**470**		**420**		**200**		**420**		**660**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 730		19	J	< 390		< 1000		< 2400	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
4-Methylphenol	SW8270D	--	--	--	µg/kg	**790**		**670**		**460**		< 1000		110	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**570**		**690**		**270**		**77**	J	**390**	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**310**		**270**		**92**		**100**	J	**240**	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 1500		< 1100		< 790		76	J	< 4800	
Anthracene	SW8270D	57.2	451	845	µg/kg	**1300**		**1400**		**770**		**250**		**690**	
Atrazine	SW8270D	--	--	--	µg/kg	< 1500		< 1100		< 790		< 2100		< 4800	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 1500		68	J	42	J	< 2100		< 4800	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**3900**		**3100**		**1700**		**770**		**2200**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**3500**		**2900**		**1700**		**760**		**2000**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**4200**		**3300**		**1900**		**1000**		**2400**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**2900**		**2300**		**1400**		**750**		**1600**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1300**		**1100**		**570**		**420**		**770**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	**2300**		**1800**		**1000**		720	J	1500	J
Biphenyl	SW8270D	--	--	--	µg/kg	100	J	130	J	63	J	45	J	69	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 7300		< 5500		< 3900		490	J	990	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Caprolactam	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
Carbazole	SW8270D	--	--	--	µg/kg	**390**		320		190		120	J	310	J
Chrysene	SW8270D	166	728	1290	µg/kg	**4000**		**3100**		**1800**		**1000**		**2600**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**800**		**510**		**330**		**350**		**830**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	450	J	500	J	240	J	120	J	< 2400	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**7300**		**6500**		**2800**		**1500**		**4200**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**590**		**690**		**350**		**120**	J	**490**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**2500**		**2000**		**1100**		**590**		**1400**	
Isophorone	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Naphthalene	SW8270D	176	369	561	µg/kg	**910**		**1200**		**450**		**250**		**360**	J
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 1500		< 1100		< 790		< 2100		< 4800	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 150		< 110		< 79		< 210		< 480	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 730		< 550		< 390		< 1000		< 2400	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**4900**		**5000**		**2500**		**800**		**3200**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 730		34	J	< 390		< 1000		< 2400	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3700		< 2800		< 2000		< 5300		< 12000	
Pyrene	SW8270D	195	858	1520	µg/kg	**6400**		**5700**		**3300**		**1600**		**4700**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1254	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		**140**		**180**	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 56		< 56		< 48		< 68		< 65	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	0		0		0		**140**		**180**	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 2.7		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 43		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 3.5		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		< 3.1		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB04		ND20-TB04		ND20-TB04		ND20-TB05		ND20-TB05	
					Sample ID	ND20-TB04-4060_07/01/2020		ND20-TB04-6080_07/01/2020		ND20-TB04-8010_07/01/2020		ND20-TB05-SURF_06/28/2020		ND20-TB05-0320_06/29/2020	
					Date	07-01-2020		07-01-2020		07-01-2020		06-28-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**76**		**71**		**47**		**110**		**93**	
Total Organic Carbon	SW9060	--	--	--	%	**6.11**		**5.54**		**4.95**		**4.28**		**5.04**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**170**	D
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		**250**	D
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		**42**	D
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		**30**	J D
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		**180**	D
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		**500**	D
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		**510**	D
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		**610**	D
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		**390**	D
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		**530**	D
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		**470**	D
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**410**	D
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**870**	D
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**80**	D
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**280**	D
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**440**	D
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**260**	D
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**790**	D
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**120**	D
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**610**	D
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**500**	D
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**170**	D
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**450**	D
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**220**	D
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**570**	D
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**400**	D
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		< 40	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**450**	D
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**310**	D
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		**730**	D
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		**140**	D
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		**1100**	D
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		**72**	D
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		**360**	D
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		**130**	D
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**140**	D
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		**600**	D
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		**1000**	D
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		**6900**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		**14000**	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**14700**		**12600**		**12000**		**5350**		**22500**	
Antimony	SW6010	2	13.5	25	mg/kg	< 7.8	U *	0.65	J *	1.5	J *	0.5	J *	1.6	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**6.3**		**6**		**8**		**2.8**		**9.5**	
Barium	SW6010	--	--	--	mg/kg	**137**		**127**		**211**		**58.7**		**166**	
Beryllium	SW6010	--	--	--	mg/kg	**0.88**		**0.75**		**0.81**		0.37	J	**1.1**	
Cadmium	SW6010	0.99	3	5	mg/kg	**1.3**		**1.2**		**2.2**		0.41	J	0.88	J
Calcium	SW6010	--	--	--	mg/kg	**11000**		**11000**		**11000**		**7050**		**28400**	
Chromium	SW6010	43	76.5	110	mg/kg	**36.7**		**30**		**34.8**		**11.9**		**44.4**	
Cobalt	SW6010	--	--	--	mg/kg	**9.3**		**8.5**		**8.2**		4.1	J	**15**	
Copper	SW6010	32	91	150	mg/kg	**70.7**		**66**		**109**		**28.8**		**88.2**	
Iron	SW6010	20000	30000	40000	mg/kg	**25300**		**23100**		**21700**		**10100**		**42100**	
Lead	SW6010	36	83	130	mg/kg	**161**		**124**		**280**		**64.9**		**96.5**	
Magnesium	SW6010	--	--	--	mg/kg	**8320**		**8220**		**7100**		**3950**		**13000**	
Manganese	SW6010	460	780	1100	mg/kg	**375**		**316**		**279**		**121**		**749**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.75**		**0.68**		**2.8**		**0.45**		0.16	J
Nickel	SW6010	23	36	49	mg/kg	**25.9**		**24**		**23.2**		**10.4**		**38.9**	
Potassium	SW6010	--	--	--	mg/kg	**1900**		**1620**		**1520**		**633**		**3310**	
Selenium	SW6010	--	--	--	mg/kg	1.3	J	1.3	J	2.2	J	0.57	J	1.2	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	1.1	J	**2.8**		**1.6**		0.24	J	0.23	J
Sodiium	SW6010	--	--	--	mg/kg	326	J	273	J	**290**	J	166	J	487	J
Thallium	SW6010	--	--	--	mg/kg	< 3.2	U *	< 3.3	U *	< 4	U *	< 2.6	U *	< 4.9	U *
Vanadium	SW6010	--	--	--	mg/kg	**38.2**		**35.4**		**33.6**		**19.9**		**60.7**	
Zinc	SW6010	120	290	460	mg/kg	**293**		**281**		**514**		**130**		**247**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	< 7.6		-		-		-		< 13	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 7.6		-		-		-		< 13	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 7.6		-		-		-		< 13	
2-Butanone	SW8260	--	--	--	µg/kg	**8.9**		-		-		-		< 13	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Acetone	SW8260	--	--	--	µg/kg	**290**		-		-		-		**140**	
Benzene	SW8260	57	83.5	110	µg/kg	< 7.6		-		-		-		< 13	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Bromoform	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Bromomethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
CFC-12	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Chloroethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Chloroform	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Chloromethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 38		-		-		-		< 66	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Methylcylohexane	SW8260	--	--	--	µg/kg	2.1	J	-		-		-		< 13	
Methylene Chloride	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
o-Xylene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Styrene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Toluene	SW8260	890	1345	1800	µg/kg	< 7.6		-		-		-		< 13	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Trichloroethene	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 7.6		-		-		-		< 13	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	< 15		-		-		-		**< 27**	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 1200**		**< 2800**		**< 6000**		< 230		**< 1600**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 12000		< 28000		< 60000		< 2300		< 16000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**950**		**1300**		**5300**		**140**		320	J
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
4-Methylphenol	SW8270D	--	--	--	µg/kg	110	J	< 2800		< 6000		58	J	< 1600	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**760**		**1000**		**< 1200**		**100**		80	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**260**		**< 560**		**< 1200**		**57**		140	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 2500		< 5600		< 12000		< 460		< 3300	
Anthracene	SW8270D	57.2	451	845	µg/kg	**790**		**820**		**2100**		**200**		260	J
Atrazine	SW8270D	--	--	--	µg/kg	< 2500		< 5600		< 12000		< 460		< 3300	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 2500		< 5600		< 12000		< 460		73	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**1800**		**2000**		**5000**		**590**		**800**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**1800**		**1800**		**4500**		**620**		**730**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1900**		**1800**		**5900**		**690**		**1100**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**1500**		**1300**		**3700**		**480**		**800**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**750**		**700**		**1700**		**260**		290	J
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	**1400**		1400	J	3800	J	**410**		670	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		40	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 12000		< 28000		< 60000		< 2300		< 16000	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Caprolactam	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
Carbazole	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		110	J
Chrysene	SW8270D	166	728	1290	µg/kg	**2300**		**2300**		**5700**		**640**		**1000**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**360**		**< 560**		1100	J	**120**		**440**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 1200		< 2800		< 6000		89	J	110	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**3900**		**3500**		**11000**		**1300**		**1500**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**850**		**990**		**3000**		**120**		**130**	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**1100**		**910**		**3200**		**390**		**620**	
Isophorone	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Naphthalene	SW8270D	176	369	561	µg/kg	**390**		**370**	J	**1600**		**120**		**210**	J
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 2400		< 5600		< 12000		< 460		< 3300	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 250		< 560		< 1200		< 46		< 330	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 1200		< 2800		< 6000		< 230		< 1600	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 6200**		**< 14000**		**< 31000**		**< 1200**		**< 8300**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**4900**		**5000**		**12000**		**830**		**760**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 1200		< 2800		**< 6000**		< 230		< 1600	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 6200		< 14000		< 31000		< 1200		< 8300	
Pyrene	SW8270D	195	858	1520	µg/kg	**4400**		**4600**		**11000**		**1000**		**1500**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1254	SW8081	--	--	--	µg/kg	**110**		**99**		< 60		< 47		**130**	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 60		< 55		**62**		4.4	J	< 80	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 60		< 55		< 60		< 47		< 80	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**110**		**99**		**62**		4.4		**130**	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 1.8		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 29		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 2.4		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		**< 2.1**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB05		ND20-TB06	
					Sample ID	ND20-TB05-2040_06/29/2020		ND20-TB05-4060_06/29/2020		ND20-TB05-6080_06/29/2020		ND20-TB05-8010_06/29/2020		ND20-TB06-SURF_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**85**		**71**		**82**		**40**		**150**	
Total Organic Carbon	SW9060	--	--	--	%	**6.42**		**8.9**		**10.8**		**2.98**		**5.4**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**19500**		**13700**		**8250**		**7660**		**5570**	
Antimony	SW6010	2	13.5	25	mg/kg	0.83	J *	0.9	J *	1.2	J *	0.76	J *	< 5.8	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**6.4**		**6.7**		**6.4**		**3.7**		**2.5**	
Barium	SW6010	--	--	--	mg/kg	**151**		**157**		**97.6**		**65.9**		**41.5**	
Beryllium	SW6010	--	--	--	mg/kg	**1**		**0.81**		0.51	J	0.45	J	0.33	J
Cadmium	SW6010	0.99	3	5	mg/kg	**0.93**		**1.6**		**0.84**		0.41	J	0.19	J
Calcium	SW6010	--	--	--	mg/kg	**18100**		**12900**		**15800**		**15100**		**12500**	
Chromium	SW6010	43	76.5	110	mg/kg	**44.6**		**36.8**		**19.3**		**16.4**		**11.8**	
Cobalt	SW6010	--	--	--	mg/kg	**12.1**		**9.5**		6.3	J	5.2	J	4.1	J
Copper	SW6010	32	91	150	mg/kg	**55.6**		**71.7**		**49.7**		**34.3**		**40.7**	
Iron	SW6010	20000	30000	40000	mg/kg	**31700**		**25700**		**20200**		**13700**		**10300**	
Lead	SW6010	36	83	130	mg/kg	**98.1**		**149**		**106**		**61.2**		**24.3**	
Magnesium	SW6010	--	--	--	mg/kg	**12500**		**9290**		**7010**		**6450**		**5470**	
Manganese	SW6010	460	780	1100	mg/kg	**550**		**354**		**242**		**168**		**132**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.33**		**1.1**		**1.7**		**0.94**		**0.23**	
Nickel	SW6010	23	36	49	mg/kg	**32.8**		**26.9**		**16.1**		**13.8**		**10.7**	
Potassium	SW6010	--	--	--	mg/kg	**2690**		**1730**		**1070**		**981**		**662**	
Selenium	SW6010	--	--	--	mg/kg	< 5.6		1.3	J	1.9	J	0.83	J	< 3.4	
Silver	SW6010	1.6	1.9	2.2	mg/kg	0.28	J	**1.6**		0.74	J	0.36	J	0.18	J
Sodiium	SW6010	--	--	--	mg/kg	400	J	320	J	263	J	214	J	189	J
Thallium	SW6010	--	--	--	mg/kg	< 4	U *	< 3.5	U *	< 3.3	U *	< 3.2	U *	< 2.4	U *
Vanadium	SW6010	--	--	--	mg/kg	**48.9**		**38.9**		**26.5**		**25.4**		**23.4**	
Zinc	SW6010	120	290	460	mg/kg	**202**		**331**		**217**		**122**		**51.2**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	**< 10**		**< 9.3**		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 10		< 9.3		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 10		< 9.3		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	7.2	J	7.7	J	-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	**150**		**160**		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	< 10		< 9.3		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 51		< 47		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	< 10		0.79	J	-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	< 10		< 9.3		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 10		< 9.3		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	< 21		< 19		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 7900		< 23000		< 6900		< 2500		< 1100	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	360		1900		370		120		27	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 790		< 2300		< 690		< 250		< 110	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 790		< 2300		160	J	220	J	62	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	170		1600		330		210		29	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	140	J	< 470		170		120		25	
Acetophenone	SW8270D	--	--	--	µg/kg	< 1600		< 4700		48	J	< 520		< 230	
Anthracene	SW8270D	57.2	451	845	µg/kg	380		1500		600		600		100	
Atrazine	SW8270D	--	--	--	µg/kg	< 1600		< 4700		< 1400		< 520		< 230	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 1600		< 4700		< 1400		55	J	24	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	1100		2600		1600		1600		250	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	1100		2500		1600		1700		270	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	1300		3000		1800		1700		280	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	890		2100		1200		1300		210	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	490		800		660		700		99	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	830		2000	J	1000		990		160	
Biphenyl	SW8270D	--	--	--	µg/kg	< 790		< 2300		80	J	57	J	13	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	420	J	< 23000		< 6900		< 2500		< 1100	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Caprolactam	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
Carbazole	SW8270D	--	--	--	µg/kg	150	J	< 470		240		100		21	J
Chrysene	SW8270D	166	728	1290	µg/kg	1200		3000		1600		1700		250	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	230		< 470		280		300		53	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	**160**	J	**< 2300**		**< 690**		**170**	J	31	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	**< 790**		**< 2300**		**< 690**		< 250		< 110	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	**< 790**		**< 2300**		**< 690**		< 250		< 110	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 790		**< 2300**		< 690		< 250		< 110	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	**< 790**		**< 2300**		**< 690**		< 250		< 110	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**2300**		**5400**		**3600**		**3700**		**570**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**210**		**1700**		**400**		**260**		53	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**740**		**1600**		**1000**		**1100**		**180**	
Isophorone	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Naphthalene	SW8270D	176	369	561	µg/kg	**220**		**680**		**350**		**250**		**60**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 1600		< 4700		< 1400		< 510		< 220	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 160		< 470		< 140		< 52		< 23	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 790		< 2300		< 690		< 250		< 110	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 4100**		**< 12000**		**< 3600**		**< 1300**		**< 570**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**1500**		**7800**		**2600**		**2200**		**360**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 790		< 2300		< 690		< 250		< 110	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 4100		< 12000		< 3600		< 1300		< 570	
Pyrene	SW8270D	195	858	1520	µg/kg	**1900**		**6200**		**2900**		**2900**		**460**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1254	SW8081	--	--	--	µg/kg	**65**		**110**		< 55		< 51		< 44	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 64		< 65		24	J	< 51		< 44	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 64		< 65		< 55		< 51		< 44	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**65**		**110**		24		0		0	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06		ND20-TB06	
					Sample ID	ND20-TB06-0320_06/29/2020		ND20-TB06-2040_06/29/2020		ND20-TB06-4060_06/29/2020		ND20-TB06-6080_06/29/2020		ND20-TB06-8010_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		6 - 8		8 - 10	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**97**		**94**		**67**		**55**		**35**	
Total Organic Carbon	SW9060	--	--	--	%	**5.37**		**9.57**		**5.57**		**3.43**		**1.46**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	**180**	J D	-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	**250**	D	-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	**80**	J D	-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	**64**	J D	-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	**280**	D	-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	**970**	D	-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	**1100**	D	-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	**1100**	D	-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	**700**	D	-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	**1000**	D	-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	**780**	D	-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	**560**	D	-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1400**	D	-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 220		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**280**	D	-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**630**	D	-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	**310**	D	-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	**1100**	D	-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 220		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**640**	D	-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**560**	D	-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 220		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	**590**	D	-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	**270**	D	-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**640**	D	-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**420**	D	-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	< 220		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	**450**	D	-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	**350**	D	-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	**1200**	D	-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	**240**	D	-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	**2200**	D	-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	**150**	J D	-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	**680**	D	-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	**170**	J D	-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	**270**	D	-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	**1100**	D	-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	**2000**	D	-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	**13000**		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	**22000**		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**24800**		**9180**		**14100**		**11600**		**6670**	
Antimony	SW6010	2	13.5	25	mg/kg	1.5	J *	< 6.8	U *	< 9.1	J *	< 9.4	J *	< 8	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**10.3**		**4.7**		**6.3**		**6.1**		**3.2**	
Barium	SW6010	--	--	--	mg/kg	**175**		**75.9**		**140**		**142**		**53.3**	
Beryllium	SW6010	--	--	--	mg/kg	1.2	J	0.54	J	0.75	J	0.62	J	0.35	J
Cadmium	SW6010	0.99	3	5	mg/kg	**1**	J	**0.72**		**1.4**		**1.4**		0.36	J
Calcium	SW6010	--	--	--	mg/kg	**23700**		**10400**		**20000**		**13600**		**16300**	
Chromium	SW6010	43	76.5	110	mg/kg	**47.7**		**26.1**		**32.6**		**26.6**		**14.2**	
Cobalt	SW6010	--	--	--	mg/kg	**16.1**		**7.2**		**8.7**		7.7	J	4.5	J
Copper	SW6010	32	91	150	mg/kg	**97.3**		**43**		**73.6**		**75.3**		**26.5**	
Iron	SW6010	20000	30000	40000	mg/kg	**46200**		**18200**		**24400**		**21300**		**12500**	
Lead	SW6010	36	83	130	mg/kg	**99.3**		**70.1**		**161**		**210**		**53**	
Magnesium	SW6010	--	--	--	mg/kg	**13800**		**6150**		**8830**		**6180**		**5620**	
Manganese	SW6010	460	780	1100	mg/kg	**826**	*	**315**		**339**		**264**		**172**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.12	J	0.34		**0.79**		**2.3**		**0.68**	
Nickel	SW6010	23	36	49	mg/kg	**42.4**		18.1		**25**		**20.2**		**12**	
Potassium	SW6010	--	--	--	mg/kg	**3480**		1130		**1800**		**1400**		**847**	
Selenium	SW6010	--	--	--	mg/kg	1.5	J	0.95	J	1.4	J	1.5	J	< 4.6	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 2.6		0.43	J	**3.1**		1.1	J	0.19	J
Sodiium	SW6010	--	--	--	mg/kg	501	J	214	J	332	J	314	J	226	J
Thallium	SW6010	--	--	--	mg/kg	< 6.5	U *	< 2.8	U *	< 3.8		< 3.9		< 3.3	
Vanadium	SW6010	--	--	--	mg/kg	**64.6**		**30.8**		40		**32.4**		**25.5**	
Zinc	SW6010	120	290	460	mg/kg	**279**		**166**		**300**	*	**360**	*	**103**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		**12**		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	< 18		< 8.1	J B	< 9.5		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Acetone	SW8260	--	--	--	µg/kg	**230**		**100**		32	J	-		-	
Benzene	SW8260	57	83.5	110	µg/kg	< 18		< 8.1		< 9.5		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Bromoform	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
CFC-12	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Chloroform	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	< 92		< 41		< 48		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	< 18		1.8	J	< 9.5		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	< 18		0.87	J	< 9.5		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	1.6	J	-		-	
Styrene	SW8260	--	--	--	µg/kg	< 18		< 8.1	J	< 9.5		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	< 18		0.68	J	< 9.5		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	< 18		< 8.1		< 9.5		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	< 18		< 8.1		< 9.5		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	**< 37**		< 16	J	1.6	J	-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 1700**		**< 1100**		**< 5900**		**< 1600**		**< 740**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 17000		< 11000		< 59000		< 16000		< 7400	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**230**	J	**470**		**5100**		**1500**		**200**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
4-Methylphenol	SW8270D	--	--	--	µg/kg	61	J	< 1100		< 5900		< 1600		140	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**110**	J	**700**		**4500**		**1200**		**410**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**220**	J	**290**		**< 1200**		**450**		**530**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 3500		< 2200		< 12000		< 3300		< 1500	
Anthracene	SW8270D	57.2	451	845	µg/kg	**310**	J	**1100**		**3000**		**950**		**1000**	
Atrazine	SW8270D	--	--	--	µg/kg	< 3500		< 2200		< 12000		< 3300		< 1500	
Benzaldehyde	SW8270D	--	--	--	µg/kg	96	J	< 2200		< 12000		< 3300		< 1500	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**1100**		**2300**		**4400**		**2600**		**2700**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**1100**		**2200**		**2900**		**2500**		**3000**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1500**		**2500**		**2800**		**2800**		**3000**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**1000**		**1700**		**2700**		**1900**		**2200**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**360**		**1000**		**860**	J	**1000**		**930**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	**840**	J	**1600**		3000	J	**1700**		**1700**	
Biphenyl	SW8270D	--	--	--	µg/kg	35	J	< 1100		< 5900		< 1600		120	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 17000		< 11000		< 59000		< 16000		< 7400	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Caprolactam	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
Carbazole	SW8270D	--	--	--	µg/kg	140	J	**410**		< 1200		**460**		280	
Chrysene	SW8270D	166	728	1290	µg/kg	**1300**		**2500**		**6600**		**2800**		**2600**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**510**		**420**		**< 1200**		**510**		**530**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	100	J	400	J	< 5900		560	J	300	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**2200**		**5300**		**6400**		**6000**		**6700**	
Fluorene	SW8270D	77.4	307	536	µg/kg	140	J	**800**		**5100**		**990**		**680**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**850**		**1400**		**1700**		**1600**		**1900**	
Isophorone	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Naphthalene	SW8270D	176	369	561	µg/kg	180	J	**320**		710	J	**500**		**370**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 3500		< 2200		< 12000		< 3300		< 1500	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 350		< 220		< 1200		< 330		< 150	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**1000**		**4700**		**25000**		**5700**		**5900**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 1700		< 1100		< 5900		< 1600		< 740	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 9000		< 5700		< 30000		< 8300		< 3800	
Pyrene	SW8270D	195	858	1520	µg/kg	**2000**		**4300**		**14000**		**5200**		**5700**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 85		< 56		**120**		43	J	< 48	
Aroclor 1254	SW8081	--	--	--	µg/kg	**130**		**92**		< 60		< 67		< 48	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 85		< 56		**65**		47	J	< 48	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 85		< 56		< 60		< 67		< 48	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	**130**		**92**		**185**		90		0	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 3.3		-		-		-		< 1.9	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 53		-		-		-		< 30	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 4.4		-		-		-		< 2.5	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	< 3.9		-		-		-		< 2.2	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07		ND20-TB07	
					Sample ID	ND20-TB07-SURF_06/29/2020		ND20-TB07-0320_06/29/2020		ND20-TB07-2040_06/29/2020		ND20-TB07-4060_06/29/2020		ND20-TB07-6080_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6		6 - 8	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	**470**	B	**310**		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	**280**	B	**250**		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	**7.6**	B	**6.4**		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	**8.4**	B	**5.8**		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	**12.8**	I	**12**	I	-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	**22**	B	**20**		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	**11**		**8.3**		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	**23**	B	**16**		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	< 6.4		< 4.8		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	5.1	J	4.7	J	-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	2.3	J	2.3	J	-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	6.2	J	**5.7**		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	3.66	J B	4	J	-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	**1.7**		**3**		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	**3.3**		**5.7**		-		-		-	
OCDD	E1613B	--	--	--	pg/g	**3400**	B	**2200**		-		-		-	
OCDF	E1613B	--	--	--	pg/g	**350**	B	**240**		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**160**		**68**		**79**		**97**		**50**	
Total Organic Carbon	SW9060	--	--	--	%	**5.24**		**4.59**		**12.1**		**7.99**		**3.31**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**4840**		**22100**		**17200**		**16000**		**16700**	
Antimony	SW6010	2	13.5	25	mg/kg	< 5.1	U *	1.6	J *	< 8.2	J *	< 8.7	J *	< 8	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**2.3**		**9**	*	**6**		**6.3**		**5.3**	
Barium	SW6010	--	--	--	mg/kg	**29.5**		**166**		**124**		**132**		**125**	
Beryllium	SW6010	--	--	--	mg/kg	0.22	J	0.86	J	**0.8**		**0.77**		**0.8**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.15	J	0.84	J	**0.96**		**1.2**		**1.2**	
Calcium	SW6010	--	--	--	mg/kg	**20100**		**26900**	*	**15000**		**14100**		**14900**	
Chromium	SW6010	43	76.5	110	mg/kg	**10.3**		**47.4**		**40.7**		**42.7**		**37.4**	
Cobalt	SW6010	--	--	--	mg/kg	3.8	J	**14.7**		**11.2**		**10.3**		**10.8**	
Copper	SW6010	32	91	150	mg/kg	**8.4**		**74**	*	**51.8**		**66.2**		**49.6**	
Iron	SW6010	20000	30000	40000	mg/kg	**9220**		**40700**		**29400**		**29100**		**28200**	
Lead	SW6010	36	83	130	mg/kg	**3.4**		**89.1**		**90.9**		**148**		**79.8**	
Magnesium	SW6010	--	--	--	mg/kg	**8470**		**12500**	*	**10900**		**10100**		**10900**	
Manganese	SW6010	460	780	1100	mg/kg	**204**		**876**	*	**491**		**454**		**429**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.12		0.085	J	**0.37**		**0.77**		**0.46**	
Nickel	SW6010	23	36	49	mg/kg	**9.4**		**37.5**		**30.7**		**28.3**		**29.1**	
Potassium	SW6010	--	--	--	mg/kg	**665**		**3130**		**2320**		**2130**		**2240**	
Selenium	SW6010	--	--	--	mg/kg	< 3		1.3	J	1.3	J	1	J	1	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 0.86		**< 1.7**		0.33	J	0.83	J	0.56	J
Sodiium	SW6010	--	--	--	mg/kg	210	J	439	J	354	J	343	J	357	J
Thallium	SW6010	--	--	--	mg/kg	< 2.1		< 4.4	U *	< 3.4		< 3.6		< 3.3	
Vanadium	SW6010	--	--	--	mg/kg	**22.3**		**56.6**		**47**		**44.9**		**46.3**	
Zinc	SW6010	120	290	460	mg/kg	**19.1**	*	**228**	*	**204**	*	**259**	*	**237**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 40		**< 1100**		**< 950**		**< 1300**		**< 1200**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 400		< 11000		< 9500		< 13000		< 12000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	2.7	J	**320**		**390**		**730**		**540**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		130	J	98	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	3.8	J	**72**	J	**240**		**540**		**590**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**< 8.1**		**87**	J	**120**	J	**190**	J	**180**	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 81		< 2200		< 1900		< 2600		< 2500	
Anthracene	SW8270D	57.2	451	845	µg/kg	7.2	J	**210**	J	**330**		**990**		**1100**	
Atrazine	SW8270D	--	--	--	µg/kg	< 81		< 2200		< 1900		< 2600		< 2500	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 81		< 2200		< 1900		< 2600		< 2500	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	18		**530**		**940**		**2000**		**2300**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	18		**550**		**930**		**1700**		**2200**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	17		**860**		**950**		**2100**		**2300**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	17		**610**		**760**		**1400**		**1600**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	10		240		**420**		**830**		**730**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	11	J	520	J	720	J	**1400**		**1400**	
Biphenyl	SW8270D	--	--	--	µg/kg	< 40		35	J	< 950		71	J	< 1200	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 400		290	J	280	J	500	J	< 12000	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Caprolactam	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
Carbazole	SW8270D	--	--	--	µg/kg	1.7	J	92	J	< 190		**280**		**420**	
Chrysene	SW8270D	166	728	1290	µg/kg	18		**760**		**1100**		**2400**		**2300**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	3.2		140	J	**230**		**380**		**330**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 40		110	J	**< 950**		260	J	410	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 40		**< 1100**		**< 950**		**< 1300**		**< 1200**	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 40		**< 1100**		**< 950**		**< 1300**		**< 1200**	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 40		**< 1100**		**< 950**		**< 1300**		**< 1200**	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	36		**1100**		**1800**		**4600**		**5100**	
Fluorene	SW8270D	77.4	307	536	µg/kg	5.8	J	100	J	**310**		**630**		**620**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	13		**440**		**640**		**1100**		**1300**	
Isophorone	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Naphthalene	SW8270D	176	369	561	µg/kg	2.5	J	**220**		**240**		**410**		**660**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 81		< 2100		< 1900		< 2600		< 2400	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 8.1		< 220		< 190		< 260		< 250	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 210**		**< 5500**		**< 4900**		**< 6600**		**< 6200**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	28		**590**		**1700**		**3800**		**4700**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 40		< 1100		< 950		< 1300		< 1200	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 210		< 5500		< 4900		< 6600		< 6200	
Pyrene	SW8270D	195	858	1520	µg/kg	31		**1100**		**1800**		**4000**		**4000**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	< 40		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	0		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 1.6		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 2.1		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 1.8**		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB07		ND20-TB08		ND20-TB08		ND20-TB08		ND20-TB08	
					Sample ID	ND20-TB07-8010_06/29/2020		ND20-TB08-SURF_06/28/2020		ND20-TB08-0320_06/29/2020		ND20-TB08-2040_06/29/2020		ND20-TB08-4060_06/29/2020	
					Date	06-29-2020		06-28-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	8 - 10		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**23**		**160**		**92**		**100**		**85**	
Total Organic Carbon	SW9060	--	--	--	%	**0.781**		**4.63**		**4.68**		**7.01**	N	**5.08**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**11200**		**13800**		**23300**		**15300**		**14400**	
Antimony	SW6010	2	13.5	25	mg/kg	< 8.6	U *	< 8.7	J *	1.1	J *	< 9.4	J *	< 8.2	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**4.6**		**5.2**		8.5	*	**6.1**		**5.4**	
Barium	SW6010	--	--	--	mg/kg	**90.1**		**131**		**174**		**129**		**115**	
Beryllium	SW6010	--	--	--	mg/kg	0.58	J	0.71	J	0.87	J	**0.75**	J	**0.7**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.69	J	**1**		0.82	J	**1.2**		**0.9**	
Calcium	SW6010	--	--	--	mg/kg	**16000**		**15100**		**21400**	*	**14600**		**14500**	
Chromium	SW6010	43	76.5	110	mg/kg	**25.4**		**30.3**		**49.5**		**39.1**		**31.9**	
Cobalt	SW6010	--	--	--	mg/kg	**7.6**		**9.1**		**15.4**		**9.9**		**10.8**	
Copper	SW6010	32	91	150	mg/kg	**38.1**		**71.3**		**64.8**	*	**62.7**		**45.5**	
Iron	SW6010	20000	30000	40000	mg/kg	**20300**		**24300**		**43200**		**28100**		**27100**	
Lead	SW6010	36	83	130	mg/kg	**60.7**		**90.9**		**74.2**		**119**		**64.1**	
Magnesium	SW6010	--	--	--	mg/kg	**9010**		**9610**		13000	*	**10100**		**10300**	
Manganese	SW6010	460	780	1100	mg/kg	**314**		**345**		**909**	*	**443**		**408**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.31**		**0.59**		0.078	J	**0.92**		**0.47**	
Nickel	SW6010	23	36	49	mg/kg	**20.3**		**23.9**		**38.9**		**27.3**		**28.6**	
Potassium	SW6010	--	--	--	mg/kg	**1510**		**1830**		3210		**2050**		**1940**	
Selenium	SW6010	--	--	--	mg/kg	0.98	J	0.91	J	1.4	J	1.9	J	1.2	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	0.58	J	**1.5**		< 2.2		0.93	J	0.48	J
Sodiium	SW6010	--	--	--	mg/kg	306	J	327	J	462	J	355	J	341	J
Thallium	SW6010	--	--	--	mg/kg	< 3.6		< 3.6		< 5.5	U *	< 3.9		< 3.4	
Vanadium	SW6010	--	--	--	mg/kg	**36.1**		**39.4**		**59.9**		**44.6**		**39.6**	
Zinc	SW6010	120	290	460	mg/kg	**154**	*	**232**	*	**216**	*	**256**	*	**211**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 1000**		**< 1400**		**< 1200**		**< 970**		**< 910**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 10000		< 14000		< 12000		< 9700		< 9100	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**280**		**820**		**140**	J	**400**		**1700**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		68	J	94	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**300**		**490**		**43**	J	**260**		**6500**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**110**	J	**< 280**		**78**	J	**110**	J	**290**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 2000		< 2800		< 2400		< 2000		< 1900	
Anthracene	SW8270D	57.2	451	845	µg/kg	**300**		**690**		**140**	J	**550**		**9100**	
Atrazine	SW8270D	--	--	--	µg/kg	< 2000		< 2800		< 2400		< 2000		< 1900	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 2000		< 2800		56	J	< 2000		< 1900	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**790**		**1500**		**420**		**1100**		**15000**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**720**		**1400**		**420**		**980**		**13000**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**790**		**1500**		**590**		**1200**		**14000**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**490**		**1300**		**380**		**770**		**8100**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	200	J	**460**		210	J	**370**		**5500**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	570	J	1200	J	350	J	730	J	**6900**	
Biphenyl	SW8270D	--	--	--	µg/kg	< 1000		< 1400		24	J	< 970		580	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 10000		< 14000		270	J	300	J	< 9100	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Caprolactam	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
Carbazole	SW8270D	--	--	--	µg/kg	< 200		< 280		68	J	130	J	**6000**	
Chrysene	SW8270D	166	728	1290	µg/kg	**890**		**1900**		**500**		**1200**		**14000**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**< 200**		**280**		**290**		**200**		**2200**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 1000		< 1400		70	J	130	J	5300	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	1500		3100		830		2400		45000	D
Fluorene	SW8270D	77.4	307	536	µg/kg	310		680		62	J	330		6700	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	430		920		320		600		7300	
Isophorone	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Naphthalene	SW8270D	176	369	561	µg/kg	170	J	400		120	J	250		5500	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 2000		< 2800		< 2400		< 2000		< 1800	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 200		< 280		< 240		< 200		< 190	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
Phenanthrene	SW8270D	204	687	1170	µg/kg	1800		3700		400		1800		51000	D
Phenol	SW8270D	4200	8100	12000	µg/kg	< 1000		< 1400		< 1200		< 970		< 910	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 5100		< 7000		< 6100		< 5000		< 4700	
Pyrene	SW8270D	195	858	1520	µg/kg	1700		3300		780		2100		28000	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		< 3.8		< 25		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 400		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		< 4.9		< 33		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		< 4.3		< 29		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB08		ND20-TB08		ND20-TB09		ND20-TB09		ND20-TB09	
					Sample ID	ND20-TB08-6080_06/29/2020		ND20-TB08-8010_06/29/2020		ND20-TB09-SURF_06/28/2020		ND20-TB09-0320_06/29/2020		ND20-TB09-2040_06/29/2020	
					Date	06-29-2020		06-29-2020		06-28-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	6 - 8		8 - 10		0 - 0.3		0.3 - 2		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**55**		**67**		**190**		**97**		**84**	
Total Organic Carbon	SW9060	--	--	--	%	**3.68**		**5.52**		**4.44**		**6.24**		**3.98**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**200**	D	-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		**280**	D	-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		**56**	J D	-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		**39**	J D	-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		**160**	D	-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		**550**	D	-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**660**	D	-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**810**	D	-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		**520**	D	-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**600**	D	-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**600**	D	-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**480**	J D	-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**1000**	J D	-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		< 150		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**310**	J D	-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**590**	J D	-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**350**	J D	-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**980**	J D	-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**250**	J D	-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**740**	J D	-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**740**	J D	-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**220**	J D	-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**630**	J D	-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**350**	J D	-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**920**	J D	-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**610**	J D	-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		< 150		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**760**	J D	-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**460**	J D	-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		**810**	D	-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		**170**	D	-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		**1400**	D	-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		**110**	J D	-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		**470**	D	-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		**180**	D	-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**220**	D	-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		**710**	D	-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		**1200**	D	-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**8400**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		**19000**		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**18800**		**23100**		**19000**		**21300**		**9880**	
Antimony	SW6010	2	13.5	25	mg/kg	< 8.7	U *	< 6.9	U *	< 5.7	J *	1.3	J *	< 6.6	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**4.1**		**4.3**		**4.7**		**9.1**		**2.4**	
Barium	SW6010	--	--	--	mg/kg	**124**		**160**		**132**		**156**		**59.2**	
Beryllium	SW6010	--	--	--	mg/kg	**0.88**		**1**		**0.82**		**1**		0.43	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.4	J	0.23	J	0.19	J	0.79	J	0.2	J
Calcium	SW6010	--	--	--	mg/kg	**30400**		**40700**	D	**43000**	D	**21100**		**7670**	
Chromium	SW6010	43	76.5	110	mg/kg	**35.1**		**39.5**		**33.5**		**45.7**		**18.9**	
Cobalt	SW6010	--	--	--	mg/kg	**11.8**		**14.5**		**11.7**		**14.4**		**6**	
Copper	SW6010	32	91	150	mg/kg	**34.5**		**39**		**32.8**		**67**		**13.6**	
Iron	SW6010	20000	30000	40000	mg/kg	**27100**		**30800**		**25100**		**38500**		**14500**	
Lead	SW6010	36	83	130	mg/kg	**29.4**		**8.6**		**7.4**		**78.1**		**5.9**	
Magnesium	SW6010	--	--	--	mg/kg	**14100**		**18100**		**16200**		**12400**		**5790**	
Manganese	SW6010	460	780	1100	mg/kg	**479**		**509**		**450**		**941**		**206**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**0.21**		< 0.14		< 0.12		**< 0.27**		< 0.12	
Nickel	SW6010	23	36	49	mg/kg	**30**		**36.4**		**29.6**		**36.9**		**15.1**	
Potassium	SW6010	--	--	--	mg/kg	**3210**		**4120**		**3380**		**2960**		**1230**	
Selenium	SW6010	--	--	--	mg/kg	< 5.1		< 4		< 3.3		1.7	J	< 3.8	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.5		< 1.1		< 0.95		**< 1.9**		< 1.1	
Sodiium	SW6010	--	--	--	mg/kg	482	J	**636**		**612**		509	J	**579**	
Thallium	SW6010	--	--	--	mg/kg	< 3.6		< 2.9		< 2.4		< 4.8	U *	< 2.7	
Vanadium	SW6010	--	--	--	mg/kg	47.3		**58**		**46.4**		**54.2**		**34**	
Zinc	SW6010	120	290	460	mg/kg	**88**	*	**56.6**	*	**46.2**	*	**213**		**36.7**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		**< 14**	J	-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		< 14	J	-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		< 14	J B	-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		**230**		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		< 14		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 14	J	-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		< 69		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		< 14		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		< 14		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		**< 28**		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 120		< 23		< 23		**< 450**		< 44	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 1200		< 230		< 230		< 4500		< 440	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**130**		0.6	J	< 4.7		**280**		1.9	J
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 120		< 23		< 23		< 450		< 44	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
4-Methylphenol	SW8270D	--	--	--	µg/kg	13	J	< 23		< 23		< 450		< 44	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**110**		0.67	J	< 4.7		85	J	2.9	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**52**		< 4.7		< 4.7		**100**		**< 8.8**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 250		< 47		< 47		< 920		< 88	
Anthracene	SW8270D	57.2	451	845	µg/kg	**190**		< 4.7		< 4.7		**240**		6.4	J
Atrazine	SW8270D	--	--	--	µg/kg	< 250		< 47		< 47		< 920		< 88	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 250		< 47		0.87	J	< 920		10	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**300**		< 4.7		< 4.7		**620**		**20**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**250**		< 4.7		< 4.7		**620**		**19**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**270**		< 4.7		< 4.7		**990**		**21**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**190**		< 4.7		< 4.7		**640**		**15**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**110**		< 4.7		< 4.7		**280**		**12**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	**170**		< 23		< 23		**590**		12	J
Biphenyl	SW8270D	--	--	--	µg/kg	12	J	< 23		< 23		35	J	< 44	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 1200		< 230		2	J	290	J	< 440	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 120		< 23		1.5	J	< 450		< 44	
Caprolactam	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
Carbazole	SW8270D	--	--	--	µg/kg	35		< 4.7		< 4.7		100		1.5	J
Chrysene	SW8270D	166	728	1290	µg/kg	**310**		< 4.7		< 4.7		**830**		**21**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**46**		< 4.7		< 4.7		**160**		3.5	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	31	J	< 23		< 23		120	J	1.9	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 120		< 23		< 23		< 450		< 44	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 120		< 23		< 23		< 450		< 44	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 120		< 23		< 23		< 450		< 44	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 120		< 23		< 23		< 450		< 44	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**760**		< 4.7		0.52	J	**1400**		**41**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**110**		< 4.7		< 4.7		**120**		3.4	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**150**		< 4.7		< 4.7		**480**		**13**	
Isophorone	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
Naphthalene	SW8270D	176	369	561	µg/kg	**81**		< 4.7		< 4.7		**200**		3.6	J
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 250		< 47		< 47		< 910		< 88	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 25		< 4.7		< 4.7		< 92		< 8.8	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 120		< 23		< 23		< 450		< 44	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 630**		< 120		< 120		**< 2300**		**< 220**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**750**		0.91	J	1	J	**700**		**20**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 120		< 23		< 23		< 450		< 44	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 630		< 120		< 120		< 2300		< 220	
Pyrene	SW8270D	195	858	1520	µg/kg	**630**		< 4.7		< 4.7		**1100**		**32**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		**120**		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		< 90		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		**120**		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 9.7		< 1.9		< 1.8		< 3.7		< 1.7	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 150		< 30		< 28		4.3	J	< 27	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 13		< 2.5		< 2.3		< 4.8		< 2.2	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 11**		**< 2.2**		**< 2.1**		**< 4.2**		**< 2**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB09		ND20-TB09		ND20-TB09		ND20-TB10		ND20-TB10	
					Sample ID	ND20-TB09-4060_06/29/2020		ND20-TB09-6080_06/29/2020		ND20-TB09-8010_06/29/2020		ND20-TB10-SURF_06/29/2020		ND20-TB10-0320_06/29/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-29-2020	
					Sample depth (ftbss)	4 - 6		6 - 8		8 - 10		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		**380**	B	3.98	J B
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		**310**	B	3.01	J B
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		6.06	J B	< 4.8	J B
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		6.38	J B	< 4.8	J B
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**11**	I	0.23	J
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**19**	B	0.33	J
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**9.5**		0.2	J
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**19**	B	0.35	J
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		< 6.8		< 4.8	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		4.1	J	0.074	J
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		1.7	J I	< 4.8	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		4.5	J	0.097	J
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		3.06	J B	0.14	J
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		**1.8**		< 0.97	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		**3.7**		0.19	J
OCDD	E1613B	--	--	--	pg/g	-		-		-		**3000**	B	**32**	B
OCDF	E1613B	--	--	--	pg/g	-		-		-		**300**	B	< 9.7	J B
Other															
Moisture	SM2540	--	--	--	%	**48**		**42**		**41**		**170**		**32**	
Total Organic Carbon	SW9060	--	--	--	%	**9.37**		**0.573**		**0.649**		**4.95**	N	**3.15**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**6810**		**8530**		**7160**		**5360**		**20000**	
Antimony	SW6010	2	13.5	25	mg/kg	< 5.9	U *	< 6.2	U *	< 5.4	U *	< 5.2	U *	1.6	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**2.1**		**2.3**		**2.2**		**2.6**		8.3	*
Barium	SW6010	--	--	--	mg/kg	**42.6**		**57.7**		**38**		**31.8**		**143**	
Beryllium	SW6010	--	--	--	mg/kg	0.32	J	0.37	J	0.28	J	0.25	J	0.74	J
Cadmium	SW6010	0.99	3	5	mg/kg	< 0.49		0.2	J	0.13	J	0.17	J	0.72	J
Calcium	SW6010	--	--	--	mg/kg	**4480**		**3450**		**4350**		**21600**		**19200**	*
Chromium	SW6010	43	76.5	110	mg/kg	**14.5**		**16.9**		**13.9**		**11.3**		**43.8**	
Cobalt	SW6010	--	--	--	mg/kg	4.5	J	4.8	J	**5.6**		**5.1**		**13.7**	
Copper	SW6010	32	91	150	mg/kg	**8.8**		**10.9**		**9.3**		**10.7**		**56.5**	*
Iron	SW6010	20000	30000	40000	mg/kg	**11000**		**11800**		**11000**		**9730**		**38300**	
Lead	SW6010	36	83	130	mg/kg	**3.7**		**4**		**3.2**		**3.2**		**65.4**	
Magnesium	SW6010	--	--	--	mg/kg	**3640**		**3290**		**3220**		**9690**		**11700**	*
Manganese	SW6010	460	780	1100	mg/kg	**112**		**119**		**97**		**194**		**912**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.035	J	< 0.13		< 0.11		< 0.11		0.13	J
Nickel	SW6010	23	36	49	mg/kg	**11.4**		**12.9**		**12.2**		**12.5**		**34.5**	
Potassium	SW6010	--	--	--	mg/kg	**794**		**1030**		**722**		**771**		**2760**	
Selenium	SW6010	--	--	--	mg/kg	< 3.5		< 3.6		< 3.1		< 3.1		1.4	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 0.99		< 1		< 0.89		< 0.87		0.19	J
Sodiium	SW6010	--	--	--	mg/kg	**719**		**1170**		**1100**		**813**		434	J
Thallium	SW6010	--	--	--	mg/kg	< 2.5		< 2.6		< 2.2		< 2.2		< 4.6	U *
Vanadium	SW6010	--	--	--	mg/kg	**27.9**		**30.5**		**30.2**		**24.1**		**51.9**	
Zinc	SW6010	120	290	460	mg/kg	**26.3**	*	**37.4**	*	**24.7**	*	**20.1**	*	**193**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 22		< 46		< 21		< 20		**< 1100**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 220		< 460		< 210		< 200		< 11000	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	0.54	J	< 9.3		< 4.4		< 4.1		**310**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 22		< 46		< 21		< 20		< 1100	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 240		< 110		< 100		< 5800	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 240		< 110		< 100		< 5800	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 110		< 240		< 110		< 100		< 5800	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		41	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 110		< 240		< 110		< 100		< 5800	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	< 4.4		**< 9.3**		< 4.4		< 4.1		73	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	< 4.4		**< 9.3**		< 4.4		< 4.1		99	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 44		2.3	J	< 44		< 41		< 2300	
Anthracene	SW8270D	57.2	451	845	µg/kg	0.63	J	< 9.3		< 4.4		< 4.1		220	J
Atrazine	SW8270D	--	--	--	µg/kg	< 44		< 93		< 44		< 41		< 2300	
Benzaldehyde	SW8270D	--	--	--	µg/kg	2.8	J	16	J	4.3	J	< 41		< 2300	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	1.4	J	< 9.3		< 4.4		< 4.1		**520**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		**510**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		**750**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		**580**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		**310**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	< 22		< 46		< 21		< 20		490	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		37	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	2.2	J	< 460		< 210		2.8	J	290	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Caprolactam	SW8270D	--	--	--	µg/kg	6	J	< 240		< 110		< 100		< 5800	
Carbazole	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		82	J
Chrysene	SW8270D	166	728	1290	µg/kg	1.8	J	< 9.3		< 4.4		< 4.1		**690**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		140	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	0.26	J	< 46		< 21		< 20		120	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 22		< 46		< 21		< 20		**< 1100**	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 22		< 46		< 21		< 20		**< 1100**	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 22		< 46		0.74	J	1.2		< 1100	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 22		< 46		< 21		< 20		**< 1100**	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	2.3	J	< 9.3		< 4.4		< 4.1		**1100**	
Fluorene	SW8270D	77.4	307	536	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		110	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		**430**	
Isophorone	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Naphthalene	SW8270D	176	369	561	µg/kg	1	J	< 9.3		< 4.4		< 4.1		**230**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 44		< 93		< 43		< 41		< 2300	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 4.4		< 9.3		< 4.4		< 4.1		< 230	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 22		< 46		< 21		< 20		< 1100	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 110		**< 240**		< 110		< 100		**< 5800**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	1.8	J	< 9.3		0.74	J	0.69	J	**620**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 22		< 46		< 21		< 20		< 1100	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 240		< 110		< 100		< 5800	
Pyrene	SW8270D	195	858	1520	µg/kg	2	J	< 9.3		< 4.4		< 4.1		**1000**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 1.7		< 1.9		< 1.7		< 1.6		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 27		< 30		< 27		< 26		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 2.3		< 2.4		< 2.2		< 2.1		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 2**		**< 2.2**		**< 1.9**		**< 1.9**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB10		ND20-TB11	
					Sample ID	ND20-TB10-2040_06/29/2020		ND20-TB10-4060_06/29/2020		ND20-TB10-6080_06/29/2020		ND20-TB10-8010_06/29/2020		ND20-TB11-SURF_06/28/2020	
					Date	06-29-2020		06-29-2020		06-29-2020		06-29-2020		06-28-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		6 - 8		8 - 10		0 - 0.3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**32**		**40**		**30**		**23**		**170**	
Total Organic Carbon	SW9060	--	--	--	%	**7.68**		**2.72**		**0.676**		**0.234**		**4.66**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**18500**		**15900**		**5920**		**19300**		**12700**	
Antimony	SW6010	2	13.5	25	mg/kg	< 12.1	U *	< 11.8	U *	< 6	U *	< 14.5	U *	< 9.3	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**8.7**		**7**		**2.4**		**6.4**	*	**6.1**	
Barium	SW6010	--	--	--	mg/kg	**157**		**128**		**44.9**		**141**		**103**	
Beryllium	SW6010	--	--	--	mg/kg	0.9	J	0.78	J	0.33	J	0.68	J	0.62	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.85	J	0.81	J	0.23	J	0.67	J	0.58	J
Calcium	SW6010	--	--	--	mg/kg	**24900**		**19000**		**28500**		**15500**	*	**16500**	
Chromium	SW6010	43	76.5	110	mg/kg	**43.8**		**40.1**		**14.1**		**41.6**		**30.8**	
Cobalt	SW6010	--	--	--	mg/kg	**13.1**		**11.5**		**5.5**		**12.8**		**9.7**	
Copper	SW6010	32	91	150	mg/kg	**65.4**		**47.5**		**12.7**		**44.4**	*	**40.6**	
Iron	SW6010	20000	30000	40000	mg/kg	**36500**		**31100**		**13100**		**36100**		**25300**	
Lead	SW6010	36	83	130	mg/kg	**79.6**		**67.2**		**6.9**		**49.2**		**47.9**	
Magnesium	SW6010	--	--	--	mg/kg	**13100**		**12300**		**11600**		**12100**	*	**11300**	
Manganese	SW6010	460	780	1100	mg/kg	**798**		**699**		**307**		**965**	*	**556**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.17	J	0.14	J	< 0.12		0.16	J	0.063	J
Nickel	SW6010	23	36	49	mg/kg	**34.5**		**30.5**		**14.7**		**32.5**		**25.2**	
Potassium	SW6010	--	--	--	mg/kg	**2530**		**2120**		**876**		**2680**		**1730**	
Selenium	SW6010	--	--	--	mg/kg	< 7		1.1	J	< 3.5		< 8.5		< 5.4	
Silver	SW6010	1.6	1.9	2.2	mg/kg	0.3	J	0.41	J	< 1		< 2.4		0.22	J
Sodiium	SW6010	--	--	--	mg/kg	478	J	426	J	262	J	408	J	316	J
Thallium	SW6010	--	--	--	mg/kg	< 5	U *	< 4.9	U *	< 2.5	U *	< 6	U *	< 3.9	U *
Vanadium	SW6010	--	--	--	mg/kg	52		**46.8**		**29**		**50.9**		**38.7**	
Zinc	SW6010	120	290	460	mg/kg	**207**		**178**		**33.1**		**158**	*	**137**	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 760**		**< 850**		< 41		**< 1100**		**< 830**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 7600		< 8500		< 410		< 11000		< 8300	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**260**		**280**		17		140	J	**240**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 760		< 850		< 41		< 1100		< 830	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		30	J	< 830	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**170**		140	J	5.8	J	40	J	150	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	68	J	110	J	**< 8.3**		61	J	97	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 1600		< 1700		< 83		< 2100		< 1700	
Anthracene	SW8270D	57.2	451	845	µg/kg	**320**		**260**		**14**		110	J	**270**	
Atrazine	SW8270D	--	--	--	µg/kg	< 1600		< 1700		< 83		< 2100		< 1700	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 1600		< 1700		< 83		< 2100		< 1700	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**850**		**820**		**40**		**310**		**660**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**890**		**890**		**36**		**300**		**670**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**1300**		**940**		**44**		**440**		**790**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**770**		**730**		**29**		**310**		**590**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**280**		**390**		**18**		160	J	**350**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	670	J	660	J	29	J	270	J	540	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	270	J	450	J	< 410		130	J	< 8300	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Caprolactam	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
Carbazole	SW8270D	--	--	--	µg/kg	**170**		67	J	< 8.3		54	J	130	J
Chrysene	SW8270D	166	728	1290	µg/kg	**1000**		**970**		**44**		**420**		**770**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**190**		**190**		**9.1**		66	J	**180**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	130	J	110	J	< 41		62	J	130	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	**< 760**		**< 850**		< 41		**< 1100**		**< 830**	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	**< 760**		**< 850**		< 41		**< 1100**		**< 830**	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	**< 760**		**< 850**		< 41		**< 1100**		**< 830**	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**2000**		**1500**		**68**		**600**		**1500**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**210**		120	J	**10**		60	J	**190**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**610**		**570**		**25**		**230**		**470**	
Isophorone	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Naphthalene	SW8270D	176	369	561	µg/kg	**190**		**240**		**10**		120	J	**190**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 1500		< 1700		< 83		< 2100		< 1700	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 160		< 170		< 8.3		< 210		< 170	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 760		< 850		< 41		< 1100		< 830	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 3900**		**< 4400**		**< 210**		**< 5400**		**< 4300**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**1300**		**890**		**51**		**320**		**1000**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 760		< 850		< 41		< 1100		< 830	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 3900		< 4400		< 210		< 5400		< 4300	
Pyrene	SW8270D	195	858	1520	µg/kg	**1500**		**1400**		**68**		**540**		**1200**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB11		ND20-TB11		ND20-TB11		ND20-TB12		ND20-TB12	
					Sample ID	ND20-TB11-0320_07/03/2020		ND20-TB11-2040_07/03/2020		ND20-TB11-4060_07/03/2020		ND20-TB12-SURF_06/28/2020		ND20-TB12-0320_07/03/2020	
					Date	07-03-2020		07-03-2020		07-03-2020		06-28-2020		07-03-2020	
					Sample depth (ftbss)	0.3 - 2		2 - 4		4 - 6		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**140**		**110**		**24**		**160**		**100**	
Total Organic Carbon	SW9060	--	--	--	%	**3.99**		**4.07**		**0.41**		**3.26**		**2.94**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**13500**		**14600**		**19200**		**16000**		**17600**	
Antimony	SW6010	2	13.5	25	mg/kg	< 7.2	U *	< 8.1	U *	< 11.2	U *	0.83	J *	0.9	J *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**4.6**		**3.1**		**6.6**	*	**6.1**		**6.2**	
Barium	SW6010	--	--	--	mg/kg	**92.6**		**94.2**		**134**		**130**		**333**	
Beryllium	SW6010	--	--	--	mg/kg	**0.65**		**0.75**		0.68	J	0.74	J	**0.81**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.57	J	0.3	J	0.6	J	0.51	J	0.58	J
Calcium	SW6010	--	--	--	mg/kg	**18800**		**6100**		**13200**	*	**15800**		**22200**	*
Chromium	SW6010	43	76.5	110	mg/kg	**30.2**		**29.9**		**39.8**		**35.7**		**35.9**	
Cobalt	SW6010	--	--	--	mg/kg	**10.1**		**9.9**		**12.8**		**11.8**		**11.6**	
Copper	SW6010	32	91	150	mg/kg	**34.3**		**22**		**40.4**	*	**40.5**		**45.3**	
Iron	SW6010	20000	30000	40000	mg/kg	**24800**		**21100**		**36000**		**30800**		**33500**	
Lead	SW6010	36	83	130	mg/kg	**39.5**		**6.9**		**40.5**		**36.4**		**42.8**	*
Magnesium	SW6010	--	--	--	mg/kg	**10900**		**8160**		**11300**	*	**11300**		**12900**	
Manganese	SW6010	460	780	1100	mg/kg	**475**		**213**		**1000**	*	**830**		**743**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.11	J	< 0.13		0.069	J	0.069	J	< 0.19	J *
Nickel	SW6010	23	36	49	mg/kg	**26.2**		**25.4**		**31.8**		**29.3**		**30.6**	
Potassium	SW6010	--	--	--	mg/kg	**1810**		**1900**		**2640**		**2190**		**2260**	
Selenium	SW6010	--	--	--	mg/kg	0.75	J	< 4.7		1.6	J	1.1	J	0.86	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	0.31	J	< 1.4		**< 1.9**		0.17	J	< 1.5	
Sodiium	SW6010	--	--	--	mg/kg	376	J	258	J	400	J	396	J	**928**	
Thallium	SW6010	--	--	--	mg/kg	< 3	U *	< 3.4	U *	< 4.7	U *	< 3.7	U *	< 3.6	
Vanadium	SW6010	--	--	--	mg/kg	**38.9**		**40.6**		**50.2**		**45.1**		**48.2**	
Zinc	SW6010	120	290	460	mg/kg	**135**		**60.7**		**149**	*	**132**		**138**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 440**		< 51		**< 1100**		**< 370**		**< 320**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 4400		< 510		< 11000		< 3700		< 3200	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**160**		< 10		160	J	**110**		**95**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 440		< 51		< 1100		< 370		< 320	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
4-Methylphenol	SW8270D	--	--	--	µg/kg	55	J	< 51		42	J	22	J	< 320	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**77**	J	**< 10**		**46**	J	**30**	J	**100**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	**62**	J	**< 10**		**71**	J	**38**	J	**38**	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 890		< 100		< 2300		< 750		< 640	
Anthracene	SW8270D	57.2	451	845	µg/kg	**140**		< 10		**140**	J	**100**		**85**	
Atrazine	SW8270D	--	--	--	µg/kg	< 890		< 100		< 2300		< 750		< 640	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 890		21	J	< 2300		52	J	< 640	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**420**		< 10		**340**		**260**		**170**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**440**		< 10		**350**		**260**		**200**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**590**		< 10		**490**		**410**		**260**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**330**		< 10		**370**		**250**		**170**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**150**		< 10		200	J	**110**		**110**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	340	J	< 51		310	J	240	J	180	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 440		< 51		22	J	17	J	< 320	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 4400		< 510		160	J	120	J	140	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Caprolactam	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
Carbazole	SW8270D	--	--	--	µg/kg	43	J	< 10		65	J	33	J	27	J
Chrysene	SW8270D	166	728	1290	µg/kg	**480**		< 10		**470**		**350**		**240**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**98**		< 10		82	J	55	J	**< 64**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	67	J	< 51		72	J	54	J	66	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 440		< 51		**< 1100**	J	< 370		< 320	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 440		< 51		**< 1100**		< 370		< 320	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 440		< 51		< 1100		13	J	< 320	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 440		< 51		**< 1100**		< 370		< 320	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**800**		< 10		**740**		**560**		**490**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**110**		< 10		71	J	59	J	**140**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**290**		< 10		**280**		**190**		**150**	
Isophorone	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Naphthalene	SW8270D	176	369	561	µg/kg	**120**		< 10		150	J	**110**		**87**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 890		< 100		< 2300		< 750		< 640	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 89		< 10		< 230		< 75		< 64	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 440		< 51		< 1100		< 370		< 320	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 2300**		**< 260**		**< 5800**		**< 1900**		**< 1600**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**530**		< 10		**370**		**300**		**420**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 440		< 51		< 1100		< 370		< 320	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2300		< 260		< 5800		< 1900		< 1600	
Pyrene	SW8270D	195	858	1520	µg/kg	**720**		< 10		**650**		**440**		**370**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB12		ND20-TB12		ND20-TB13		ND20-TB13		ND20-TB13	
					Sample ID	ND20-TB12-2040_07/03/2020		ND20-TB12-4060_07/03/2020		ND20-TB13-SURF_06/28/2020		ND20-TB13-0320_07/03/2020		ND20-TB13-2030_07/03/2020	
					Date	07-03-2020		07-03-2020		06-28-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 3	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**79**		**55**		**180**		**120**		**93**	
Total Organic Carbon	SW9060	--	--	--	%	**2.93**		**2.44**		**3.3**		**2.46**		**2.51**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**47**	D	-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		**65**	D	-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		**24**	J D	-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		**19**	J D	-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		**55**	D	-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		**190**	D	-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**220**	D	-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**290**	D	-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		**170**	D	-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		**200**	D	-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		**190**	D	-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**160**	J D	-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**370**	J D	-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		< 41		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**76**	J D	-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**180**	J D	-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**100**	J D	-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**300**	J D	-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**52**	J D	-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**170**	J D	-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**200**	J D	-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**54**	J D	-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**180**	J D	-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**98**	J D	-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**180**	J D	-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**250**	J D	-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**41**	J D	-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**150**	J D	-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**490**	J D	-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		**280**	D	-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		**56**	D	-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		**520**	D	-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		**46**	D	-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		**150**	D	-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		**56**	D	-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**100**	D	-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		**250**	D	-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		**390**	D	-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		**2900**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		**6300**		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	-		**16400**		**25000**		**20200**		**15600**	
Antimony	SW6010	2	13.5	25	mg/kg	-		**< 11.1**	U *	**< 7.2**	U *	1.1	J *	**< 5.6**	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	-		**4.8**	*	**4.5**		**6.7**		**3.3**	
Barium	SW6010	--	--	--	mg/kg	-		**129**		**172**		**153**		**118**	
Beryllium	SW6010	--	--	--	mg/kg	-		0.59	J	**1.3**		0.95	J	**0.72**	
Cadmium	SW6010	0.99	3	5	mg/kg	-		0.46	J	0.29	J	0.61	J	0.24	J
Calcium	SW6010	--	--	--	mg/kg	-		**17900**	*	**34100**	*	**21300**		**26200**	*
Chromium	SW6010	43	76.5	110	mg/kg	-		**38.7**		**41.1**		**41.4**		**29.1**	
Cobalt	SW6010	--	--	--	mg/kg	-		**11**		**16.4**		**13.1**		**10.3**	
Copper	SW6010	32	91	150	mg/kg	-		**32.5**	*	**36.8**		**41.5**		**32.7**	
Iron	SW6010	20000	30000	40000	mg/kg	-		**28400**		**33200**		**36200**		**22400**	
Lead	SW6010	36	83	130	mg/kg	-		**28.2**		**10.3**	*	**33.8**		**9.7**	*
Magnesium	SW6010	--	--	--	mg/kg	-		**11600**	*	**18000**		**13400**		**12500**	
Manganese	SW6010	460	780	1100	mg/kg	-		**777**	*	**576**	*	**926**		**393**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	-		**< 0.2**		< 0.13	J *	0.1	J	< 0.1	J *
Nickel	SW6010	23	36	49	mg/kg	-		**27.2**		**40.6**		**33.5**		**26**	
Potassium	SW6010	--	--	--	mg/kg	-		**2440**		**4380**		**2840**		**2720**	
Selenium	SW6010	--	--	--	mg/kg	-		< 6.5		**0.67**	J	< 7.4		< 3.3	
Silver	SW6010	1.6	1.9	2.2	mg/kg	-		**< 1.8**		< 1.2		**< 2.1**		< 0.94	
Sodiium	SW6010	--	--	--	mg/kg	-		411	J	517	J	529	J	438	J
Thallium	SW6010	--	--	--	mg/kg	-		< 4.6	U *	< 3		< 5.3	U *	< 2.4	
Vanadium	SW6010	--	--	--	mg/kg	-		**44.3**		**55.3**		**53.4**		**44.4**	
Zinc	SW6010	120	290	460	mg/kg	-		**106**	*	**62.3**	*	**146**		**52.3**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		**< 11**		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		< 11		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		< 11		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		**210**		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		< 11		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		< 53		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		< 11		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		< 11		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		< 21		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 21		**< 520**		< 23		**< 420**		< 20	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 210		< 5200		< 230		< 4200		< 200	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	< 4.2		60	J	< 4.7		55	J	7.3	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 21		< 520		< 23		< 420		< 20	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 21		15	J	< 23		40	J	11	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	< 4.2		20	J	< 4.7		33	J	6.6	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	< 4.2		31	J	< 4.7		44	J	2.8	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 42		< 1100		< 47		< 850		< 40	
Anthracene	SW8270D	57.2	451	845	µg/kg	< 4.2		64	J	< 4.7		**93**		7.6	
Atrazine	SW8270D	--	--	--	µg/kg	< 42		< 1100		< 47		< 850		< 40	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 42		< 1100		< 47		35	J	< 40	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	< 4.2		**160**		< 4.7		**240**		**19**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	< 4.2		**150**		< 4.7		**240**		**18**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.2		**220**		< 4.7		**320**		**24**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	< 4.2		**160**		< 4.7		**230**		**14**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.2		85	J	< 4.7		**120**		**5.8**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	< 21		130	J	< 23		190	J	14	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		12	J	2.1	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	2.4	J	64	J	4.9	J	< 4200		**280**	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 21		< 520		2	J	< 420		< 20	
Caprolactam	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
Carbazole	SW8270D	--	--	--	µg/kg	< 4.2		25	J	< 4.7		38	J	< 4	
Chrysene	SW8270D	166	728	1290	µg/kg	< 4.2		**210**		< 4.7		**280**		**22**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	< 4.2		47	J	< 4.7		**130**		3.4	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 21		30	J	0.28	J	36	J	4.5	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 21		< 520	J	< 23		< 420		< 20	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 21		< 520		< 23		< 420		< 20	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	2	J	< 520		1.3	J	< 420		2.1	J
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 21		< 520		< 23		< 420		< 20	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	2.4	J	**310**		< 4.7		**550**		**44**	
Fluorene	SW8270D	77.4	307	536	µg/kg	0.98	J	34	J	< 4.7		51	J	**6.4**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	< 4.2		**130**		< 4.7		**200**		**11**	
Isophorone	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
Naphthalene	SW8270D	176	369	561	µg/kg	< 4.2		70	J	< 4.7		61	J	**8.5**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 42		< 1100		< 47		< 840		< 40	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 4.2		< 110		< 4.7		< 85		< 4	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 21		< 520		< 23		< 420		< 20	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 110		**< 2700**		< 120		**< 2100**		< 100	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**4.6**		**140**		0.82	J	**290**		**32**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 21		< 520		< 23		< 420		12	J
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 110		< 2700		< 120		< 2100		< 100	
Pyrene	SW8270D	195	858	1520	µg/kg	1.5	J	**270**		< 4.7		**490**		**38**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		38	J	-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		< 84		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		38		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 3.2		< 1.6	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		< 52		< 25	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		-		-		< 4.2		< 2.1	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		-		-		1	J	**< 1.8**	J

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB13		ND20-TB14		ND20-TB14		ND20-TB15		ND20-TB15	
					Sample ID	ND20-TB13-3035_07/03/2020		ND20-TB14-SURF_06/28/2020		ND20-TB14-0320_07/04/2020		ND20-TB15-SURF_06/29/2020		ND20-TB15-0317_07/04/2020	
					Date	07-03-2020		06-28-2020		07-04-2020		06-29-2020		07-04-2020	
					Sample depth (ftbss)	3 - 3.5		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 1.7	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		**160**	B	-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		**200**	B	-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		3.3	J B	-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		2.19	J B	-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		4.9	J	-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**9.4**	B	-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		**6.4**		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		**7.9**	B	-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		< 6.3		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		1.5	J	-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		0.87	J	-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		2	J	-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		1.36	J B	-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		0.89	J	-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		**1.8**		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		**1300**	B	-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		**140**	B	-	
Other															
Moisture	SM2540	--	--	--	%	-		**110**		**43**		**150**		**20**	
Total Organic Carbon	SW9060	--	--	--	%	-		**1.49**		**0.19**		**2.81**		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**26200**		**14800**		**4920**		**11600**		**9240**	
Antimony	SW6010	2	13.5	25	mg/kg	0.73	J *	< 10.4	U *	< 5.4	U *	< 8	U *	< 5.6	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**5.5**		**4.4**	*	**2.3**		**4.8**	*	**3.5**	
Barium	SW6010	--	--	--	mg/kg	**187**		**119**		**36.7**		**107**		**92.6**	
Beryllium	SW6010	--	--	--	mg/kg	**1.4**		0.57	J	0.23	J	0.42	J	0.44	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.31	J	0.42	J	0.17	J	0.37	J	0.21	J
Calcium	SW6010	--	--	--	mg/kg	**31500**	*	**19800**	*	**26000**	*	**20600**	*	**32700**	* D
Chromium	SW6010	43	76.5	110	mg/kg	**42.6**		**30.4**		**11.6**		**26.7**		**18.6**	
Cobalt	SW6010	--	--	--	mg/kg	**17.2**		**11.3**		4.1	J	**8.5**		**6.9**	
Copper	SW6010	32	91	150	mg/kg	**41**		**68.4**	*	**8**		**25**	*	**16.9**	
Iron	SW6010	20000	30000	40000	mg/kg	**34900**		**29100**		**11000**		**24100**		**15800**	
Lead	SW6010	36	83	130	mg/kg	**11.4**	*	**19.9**		**9.8**	*	**21.1**		**6.1**	*
Magnesium	SW6010	--	--	--	mg/kg	**18600**		**12800**	*	**10300**		**8300**	*	**13100**	
Manganese	SW6010	460	780	1100	mg/kg	**567**	*	**732**	*	**247**	*	**647**	*	**328**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.12	U *	0.072	J	< 0.11	U *	0.055	J	< 0.11	J *
Nickel	SW6010	23	36	49	mg/kg	**43.7**		**31.9**		**10.7**		**21**		**17.9**	
Potassium	SW6010	--	--	--	mg/kg	**4600**		2080		**658**		**1520**		**1460**	
Selenium	SW6010	--	--	--	mg/kg	< 4.1		< 6.1		< 3.1		< 4.7		< 3.2	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.2		**< 1.7**		< 0.89		< 1.3		< 0.93	
Sodiium	SW6010	--	--	--	mg/kg	576	J	366	J	241	J	305	J	321	J
Thallium	SW6010	--	--	--	mg/kg	< 2.9		< 4.3	U *	< 2.2		< 3.3	U *	< 2.3	
Vanadium	SW6010	--	--	--	mg/kg	**57.3**		**44.1**		**26.6**		**37**		**32.8**	
Zinc	SW6010	120	290	460	mg/kg	**66.9**	*	**105**	*	**20.8**	*	**89.8**	*	**33.1**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 24		**< 700**		< 20		**< 610**		< 21	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 240		< 7000		< 200		< 6100		< 210	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	0.97	J	66	J	0.66	J	73	J	2.1	J
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 24		< 700		< 20		< 610		< 21	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
4-Methylphenol	SW8270D	--	--	--	µg/kg	1.9	J	24	J	< 20		< 610		2.8	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	< 4.8		31	J	< 4		39	J	2.4	J
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	< 4.8		39	J	< 4		30	J	1.1	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 48		< 1400		< 40		< 1200		< 42	
Anthracene	SW8270D	57.2	451	845	µg/kg	< 4.8		89	J	0.6	J	110	J	2.4	J
Atrazine	SW8270D	--	--	--	µg/kg	< 48		< 1400		< 40		< 1200		< 42	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 48		< 1400		< 40		< 1200		< 42	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	< 4.8		**210**		1.4	J	**550**		**6.1**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	< 4.8		**210**		< 4		**840**		**6.5**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.8		**310**		< 4		**1000**		**8.1**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	< 4.8		**230**		< 4		**830**		5.8	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.8		83	J	< 4		**280**		2.1	J
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	< 24		170	J	< 20		**630**		5.1	J
Biphenyl	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	15	J	88	J	9.8	J	69	J	< 210	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Caprolactam	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
Carbazole	SW8270D	--	--	--	µg/kg	< 4.8		< 140		0.35	J	52	J	< 4.2	
Chrysene	SW8270D	166	728	1290	µg/kg	< 4.8		**260**		1.6	J	**710**		**6.8**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	< 4.8		44	J	< 4		**210**		< 4.2	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 24		37	J	0.45	J	45	J	1.3	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 24		**< 700**		< 20		< 610		< 21	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 24		**< 700**		< 20		**< 610**		< 21	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	2.3	J	< 700		1.6	J	< 610		1.8	J
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 24		**< 700**		< 20		**< 610**		< 21	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	< 4.8		**400**		**5.7**		**700**		**13**	
Fluorene	SW8270D	77.4	307	536	µg/kg	< 4.8		47	J	< 4		43	J	1.9	J
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	< 4.8		**170**		< 4		**580**		4.1	J
Isophorone	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Naphthalene	SW8270D	176	369	561	µg/kg	0.94	J	75	J	0.75	J	**130**		2.5	J
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 48		< 1400		< 40		< 1200		< 42	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 4.8		< 140		< 4		< 120		< 4.2	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 24		< 700		< 20		< 610		< 21	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 120		**< 3600**		< 100		**< 3200**		< 110	
Phenanthrene	SW8270D	204	687	1170	µg/kg	3.1	J	**200**		1.9	J	**330**		**11**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 24		< 700		< 20		< 610		< 21	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 120		< 3600		< 100		< 3200		< 110	
Pyrene	SW8270D	195	858	1520	µg/kg	< 4.8		**340**		**4.1**		**660**		**12**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		< 2.8		**3.2**		-		-	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		< 45		< 24		-		-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		< 3.7		**2.3**		-		-	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		**33**		**64**		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB15		ND20-TB16		ND20-TB16		ND20-TB17		ND20-TB17	
					Sample ID	ND20-TB15-1723_07/04/2020		ND20-TB16-SURF_06/28/2020		ND20-TB16-0320_07/04/2020		ND20-TB17-SURF_06/28/2020		ND20-TB17-0320_07/04/2020	
					Date	07-04-2020		06-28-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	1.7 - 2.3		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**44**		**110**		**21**		**86**		**27**	
Total Organic Carbon	SW9060	--	--	--	%	**0.353**		**1.69**		**0.151**		**1.68**		**0.368**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**4500**		**11100**		**9520**		**20100**		**12900**	
Antimony	SW6010	2	13.5	25	mg/kg	< 5.3	U *	< 8.2	U *	< 5.2	U *	< 10.5	U *	< 7.7	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**2.3**		**4.2**		**3.5**		**6.4**		**4.8**	
Barium	SW6010	--	--	--	mg/kg	**37.2**		**86.6**		**68.9**		**137**		**97.6**	
Beryllium	SW6010	--	--	--	mg/kg	0.22	J	0.49	J	**0.45**		0.87	J	0.56	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.17	J	0.33	J	0.24	J	0.54	J	0.46	J
Calcium	SW6010	--	--	--	mg/kg	**28100**	* D	**16100**	*	**23400**	*	12600		16800	*
Chromium	SW6010	43	76.5	110	mg/kg	**9.9**		**29.4**		**20.2**		**35**		**30.9**	
Cobalt	SW6010	--	--	--	mg/kg	4.1	J	**8.2**		**7.5**		**13.3**		**9.5**	
Copper	SW6010	32	91	150	mg/kg	**7.3**		**20.8**		**18.1**		**36**		**34.3**	
Iron	SW6010	20000	30000	40000	mg/kg	**9980**		**21100**		**18200**		**37100**		**25900**	
Lead	SW6010	36	83	130	mg/kg	**2.9**	*	**15**	*	**8.6**	*	**38.3**		**30.9**	*
Magnesium	SW6010	--	--	--	mg/kg	**10500**		**9610**		**11500**		**11600**		**10900**	
Manganese	SW6010	460	780	1100	mg/kg	**211**	*	**680**	*	426	*	**1190**	*	**815**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	< 0.12	U *	< 0.15	J *	< 0.13	J *	**< 0.25**	J	< 0.17	J *
Nickel	SW6010	23	36	49	mg/kg	**10.3**		**21**		**19.3**		**33**		**24.3**	
Potassium	SW6010	--	--	--	mg/kg	**660**		**1530**		**1340**		**2750**		**1680**	
Selenium	SW6010	--	--	--	mg/kg	< 3.1		0.97	J	0.58	J	1.8	J	1	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 0.88		< 1.4		< 0.87		0.18	J	< 1.3	
Sodiium	SW6010	--	--	--	mg/kg	210	J	321	J	297	J	418	J	344	J
Thallium	SW6010	--	--	--	mg/kg	< 2.2		< 3.4		< 2.2		< 4.4	U *	< 3.2	
Vanadium	SW6010	--	--	--	mg/kg	**20.8**		**38.1**		**36.1**		**54.8**		**42.7**	
Zinc	SW6010	120	290	460	mg/kg	**18.4**	*	**76.9**	*	**46**	*	**138**		**99.7**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 20		**< 430**		< 43		**< 430**		**< 560**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 200		< 4300		< 430		< 4300		< 5600	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	< 4.1		24	J	**9**		40	J	110	J
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 20		< 430		< 43		< 430		< 560	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	< 4.1		12	J	3.8	J	19	J	**340**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	< 4.1		9.5	J	4.7	J	37	J	84	J
Acetophenone	SW8270D	--	--	--	µg/kg	< 41		< 870		< 87		< 860		< 1100	
Anthracene	SW8270D	57.2	451	845	µg/kg	< 4.1		23	J	11		54	J	**580**	
Atrazine	SW8270D	--	--	--	µg/kg	< 41		< 870		< 87		< 860		< 1100	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 41		15	J	< 87		< 860		< 1100	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	< 4.1		75	J	**21**		**160**		**1200**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	< 4.1		85	J	**25**		**160**		**1000**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.1		**100**		**34**		**220**		**1200**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	< 4.1		78	J	**17**		**140**		**610**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	< 4.1		52	J	8.3	J	76	J	**510**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	< 20		72	J	19	J	130	J	**660**	
Biphenyl	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		9.8	J	34	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	2.7	J	< 4300		15	J	< 4300		100	J
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	2.3	J	< 430		< 43		< 430		270	J
Caprolactam	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
Carbazole	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		16	J	**280**	
Chrysene	SW8270D	166	728	1290	µg/kg	< 4.1		86	J	**23**		**200**		**1200**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	< 4.1		**< 87**		5	J	**100**		**180**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dibenzofuran	SW8270D	150	365	580	µg/kg	< 20		14	J	4.9	J	23	J	230	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	0.91	J	< 430		< 43		< 430		< 560	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 20		96	J	< 43		< 430		**< 560**	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	1.8	J	< 430		< 43		< 430		< 560	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 20		< 430		< 43		< 430		< 560	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	< 4.1		**140**		**48**		**350**		**2600**	
Fluorene	SW8270D	77.4	307	536	µg/kg	< 4.1		20	J	5.4	J	29	J	**350**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	< 4.1		63	J	**15**		**130**		**530**	
Isophorone	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
Naphthalene	SW8270D	176	369	561	µg/kg	< 4.1		31	J	10		51	J	**240**	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 40		< 860		< 87		< 860		< 1100	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 4.1		< 87		< 8.7		< 86		< 110	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 20		< 430		< 43		< 430		< 560	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	< 100		**< 2200**		**< 220**		**< 2200**		**< 2900**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	1.2	J	63	J	**22**		**160**		**2300**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 20		< 430		< 43		< 430		< 560	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 100		< 2200		< 220		< 2200		< 2900	
Pyrene	SW8270D	195	858	1520	µg/kg	< 4.1		**160**		**39**		**320**		**1900**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	-		< 2.3		< 1.7		< 3.4		1.6	J
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	-		< 36		< 27		< 54		< 36	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	-		< 3		< 2.2		< 4.4		< 2.9	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	-		1.1	J	**2.6**		**< 3.9**		**4.4**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB17		ND20-TB18		ND20-TB18		ND20-TB19		ND20-TB19	
					Sample ID	ND20-TB17-2040_07/04/2020		ND20-TB18-SURF_07/01/2020		ND20-TB18-0320_07/04/2020		ND20-TB19-SURF_06/28/2020		ND20-TB19-0320_07/04/2020	
					Date	07-04-2020		07-01-2020		07-04-2020		06-28-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		0 - 0.3		0.3 - 2		0 - 0.3		0.3 - 2	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-		-	
Other															
Moisture	SM2540	--	--	--	%	**22**		**73**		**31**		**160**		**69**	
Total Organic Carbon	SW9060	--	--	--	%	**0.624**		**1.25**		**0.548**		**3.61**		**1.91**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**17**	J D	-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		**21**	D	-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		**13**	J D	-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		**10**	J D	-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		**35**	D	-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		**120**	D	-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		**140**	D	-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		**180**	D	-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		**79**	D	-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		**130**	D	-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		**110**	D	-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**76**	J D	-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**190**	J D	-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		< 21		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**25**	J D	-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**74**	J D	-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**47**	J D	-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**130**	J D	-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		< 21		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**64**	J D	-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**70**	J D	-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**26**	J D	-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**60**	J D	-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		< 21		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**63**	J D	-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**58**	J D	-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		< 21		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**55**	J D	-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**73**	J D	-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		**160**	D	-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		**31**	D	-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		**310**	D	-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		**23**	D	-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		**88**	D	-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		**24**	D	-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**85**	D	-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		**130**	D	-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		**260**	D	-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		**1700**		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		**2900**		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	**12800**		**22100**		**11300**		**8500**		**9230**	
Antimony	SW6010	2	13.5	25	mg/kg	< 7.1	U *	< 6.6	U *	< 8.7	U *	< 6.2	U *	< 5.6	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**3.9**		**4.6**		**4.2**		**3.9**		**3.4**	
Barium	SW6010	--	--	--	mg/kg	**86.2**		**149**		**93.4**		**84.9**		**88.5**	
Beryllium	SW6010	--	--	--	mg/kg	0.56	J	**1.1**		0.5	J	0.44	J	**0.49**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.44	J	0.27	J	0.42	J	**0.62**		**0.52**	
Calcium	SW6010	--	--	--	mg/kg	16900	*	46500	* D	**13500**	*	**40200**	* D	**14700**	*
Chromium	SW6010	43	76.5	110	mg/kg	**28.4**		**39.1**		**26.8**		**23.2**		**22.5**	
Cobalt	SW6010	--	--	--	mg/kg	**10.2**		**13.9**		**8.2**		**6.2**		**6.8**	
Copper	SW6010	32	91	150	mg/kg	**30**		**33.9**		**23.4**		**21.9**		**23**	
Iron	SW6010	20000	30000	40000	mg/kg	**24200**		**29900**		**22900**		**18800**		**17900**	
Lead	SW6010	36	83	130	mg/kg	**25.4**	*	**9.4**	*	**25.1**	*	**53.2**	*	**47**	*
Magnesium	SW6010	--	--	--	mg/kg	**10900**		**16900**		**9720**		**11300**		**7610**	
Manganese	SW6010	460	780	1100	mg/kg	**577**	*	**588**	*	**522**	*	**536**	*	**403**	*
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.14	*	< 0.13	J *	< 0.17	J *	< 0.14	J *	**0.29**	*
Nickel	SW6010	23	36	49	mg/kg	**24.2**		**36.1**		**21.3**		**16.5**		**20.6**	
Potassium	SW6010	--	--	--	mg/kg	**1610**		**3810**		**1470**		**1040**		**1160**	
Selenium	SW6010	--	--	--	mg/kg	0.84	J	0.63	J	1.1	J	0.98	J	0.64	J
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.2		< 1.1		< 1.5		< 1		< 0.93	
Sodiium	SW6010	--	--	--	mg/kg	308	J	**563**		312	J	243	J	241	J
Thallium	SW6010	--	--	--	mg/kg	< 3		< 2.8		< 3.6		< 2.6		< 2.3	
Vanadium	SW6010	--	--	--	mg/kg	**40.9**		**52.9**		**37.3**		**30.8**		**31.9**	
Zinc	SW6010	120	290	460	mg/kg	**89.1**	*	**55.6**	*	**93.5**	*	**107**	*	**117**	*
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		**< 11**		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		< 11		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		< 11		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		4.3	J	-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		**92**		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		< 11		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		< 54		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		< 11		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		< 11		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		< 22		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 130		< 24		< 150		**< 930**		**< 430**	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	220	J	< 240		< 1500		< 9300		< 4300	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**45**		< 4.9		**31**		43	J	**130**	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 130		< 24		< 150		< 930		< 430	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
4-Methylphenol	SW8270D	--	--	--	µg/kg	< 130		< 24		10	J	< 930		36	J
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**52**		< 4.9		20	J	100	J	**130**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	21	J	< 4.9		21	J	59	J	**99**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 260		< 49		< 310		< 1900		< 880	
Anthracene	SW8270D	57.2	451	845	µg/kg	**49**		< 4.9		**51**		130	J	**160**	
Atrazine	SW8270D	--	--	--	µg/kg	< 260		< 49		< 310		< 1900		< 880	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 260		< 49		27	J	< 1900		< 880	
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**120**		< 4.9		**160**		**340**		**400**	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**130**		< 4.9		**180**		**380**		**490**	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**170**		< 4.9		**240**		**430**		**660**	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**100**		< 4.9		**150**		**270**		**330**	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**48**		< 4.9		**93**		180	J	**150**	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	99	J	< 24		150	J	250	J	330	J
Biphenyl	SW8270D	--	--	--	µg/kg	9.1	J	< 24		6	J	< 930		26	J
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	45	J	< 240		38	J	< 9300		< 4300	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 130		< 24		12	J	< 930		< 430	
Caprolactam	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
Carbazole	SW8270D	--	--	--	µg/kg	14	J	< 4.9		17	J	41	J	46	J
Chrysene	SW8270D	166	728	1290	µg/kg	**130**		< 4.9		**190**		**340**		**470**	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	22	J	< 4.9		**42**		**< 190**		**90**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	28	J	< 24		18	J	35	J	64	J
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 130		< 24		< 150		**< 930**		< 430	
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 130		< 24		< 150		**< 930**		< 430	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	51	J	1.3	J	< 150		< 930		< 430	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 130		< 24		< 150		**< 930**		< 430	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**250**		< 4.9		**270**		**680**		**700**	
Fluorene	SW8270D	77.4	307	536	µg/kg	**46**		< 4.9		28	J	85	J	**130**	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**70**		< 4.9		140		**250**		**290**	
Isophorone	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
Naphthalene	SW8270D	176	369	561	µg/kg	**59**		< 4.9		**40**		**< 190**		130	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 260		< 48		< 310		< 1900		< 880	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 26		< 4.9		< 31		< 190		< 88	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 130		< 24		< 150		< 930		< 430	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 650**		< 120		**< 780**		**< 4800**		**< 2200**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**190**		1	J	**130**		**430**		**710**	
Phenol	SW8270D	4200	8100	12000	µg/kg	< 130		< 24		< 150		< 930		< 430	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 650		< 120		< 780		< 4800		< 2200	
Pyrene	SW8270D	195	858	1520	µg/kg	**220**		< 4.9		**320**		**580**		**580**	
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		14	J	-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		< 59		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		14		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	**3.1**		< 1.8		0.6	J	1.7	J	< 1.7	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 32		< 29		< 39		1.5	J	-	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 2.6		< 2.4		< 3.2		< 2.3		< 2.3	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**6.1**		**< 2.1**		1.4	J	**3.6**		**6.2**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB19		ND20-TB19		ND20-TB20		ND20-TB20		ND20-TB20	
					Sample ID	ND20-TB19-2040_07/04/2020		ND20-TB19-4060_07/04/2020		ND20-TB20-SURF_07/01/2020		ND20-TB20-0320_07/04/2020		ND20-TB20-2040_07/04/2020	
					Date	07-04-2020		07-04-2020		07-01-2020		07-04-2020		07-04-2020	
					Sample depth (ftbss)	2 - 4		4 - 6		0 - 0.3		0.3 - 2		2 - 4	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		**89**	B	-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		**130**	B	-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		< 4.5	J B	-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		1.3	J	-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		3.8	J	-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		**5.3**		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		4	J I	-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		< 4.5	J B	-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		< 4.5		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		< 4.5	J B	-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		0.7	J	-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		1.4	J	-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		1.2	J	-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		0.52	J	-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		**1.3**		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		**920**	B	-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		**74**	B	-		-	
Other															
Moisture	SM2540	--	--	--	%	**54**		**45**		**84**		**40**		**32**	
Total Organic Carbon	SW9060	--	--	--	%	**1.69**		**0.24**		**2.05**		**1.97**		**2.77**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Polycyclic Aromatic Hydrocarbons															
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		**26**	J D	-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		**36**	D	-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		**14**	J D	-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		**12**	J D	-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		**39**	D	-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		**160**	D	-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		**190**	D	-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		**200**	D	-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		**110**	D	-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		**190**	D	-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		**150**	D	-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**110**	J D	-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**260**	J D	-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		< 29		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**42**	J D	-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**100**	J D	-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**70**	J D	-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**180**	J D	-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**31**	J D	-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**100**	J D	-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**110**	J D	-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**42**	J D	-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**100**	J D	-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**47**	J D	-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**100**	J D	-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**99**	J D	-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		< 29		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**88**	J D	-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		**120**	J D	-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		**210**	D	-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		**45**	D	-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		**390**	D	-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		27	J D	-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		**120**	D	-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		**38**	D	-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		**120**	D	-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		**160**	D	-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		**310**	D	-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		**2200**		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		4100		-		-		-	
Metals															
Aluminium	SW6010	--	--	--	mg/kg	11000		17300		9040		9080		4330	
Antimony	SW6010	2	13.5	25	mg/kg	< 8.2	U *	< 12.7	U *	< 7.3	U *	< 7	U *	< 6.4	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	3.8		5.5		3.8		3.8		2.5	
Barium	SW6010	--	--	--	mg/kg	80.4		157		65.1		68.1		34	
Beryllium	SW6010	--	--	--	mg/kg	0.56	J	0.72	J	0.46	J	0.47	J	0.25	J
Cadmium	SW6010	0.99	3	5	mg/kg	0.45	J	0.58	J	0.34	J	0.35	J	< 0.53	
Calcium	SW6010	--	--	--	mg/kg	9750	*	10900	*	12200		15500		26400	
Chromium	SW6010	43	76.5	110	mg/kg	23.5		37.8		20.2		20.8		9.4	
Cobalt	SW6010	--	--	--	mg/kg	8.1		11.7		6.4		6.9		3.7	J
Copper	SW6010	32	91	150	mg/kg	27.4		30.3		21.9		19.9		7.2	
Iron	SW6010	20000	30000	40000	mg/kg	19300		32600		17100		17500		8920	
Lead	SW6010	36	83	130	mg/kg	44.3	*	30.4	*	23.3		26.5		3.2	
Magnesium	SW6010	--	--	--	mg/kg	7150		10300		7700		8850		10200	
Manganese	SW6010	460	780	1100	mg/kg	265	*	1090	*	451		409		221	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	0.54	*	< 0.25	J *	0.13	J	0.13	J	< 0.1	
Nickel	SW6010	23	36	49	mg/kg	20.5		29.5		16.5		17.5		9.4	
Potassium	SW6010	--	--	--	mg/kg	1300		2320		1200		1220		635	
Selenium	SW6010	--	--	--	mg/kg	< 4.8		1.8	J	0.77	J	< 4.1		< 3.7	
Silver	SW6010	1.6	1.9	2.2	mg/kg	< 1.4		< 2.1		0.72	J	< 1.2		< 1.1	
Sodiium	SW6010	--	--	--	mg/kg	241	J	355	J	261	J	271	J	207	J
Thallium	SW6010	--	--	--	mg/kg	< 3.4		< 5.3		< 3	U *	< 2.9	U *	< 2.7	U *
Vanadium	SW6010	--	--	--	mg/kg	33		47.1		29.9		31.9		20.1	
Zinc	SW6010	120	290	460	mg/kg	107	*	139	*	73.8		71.5		17.5	
Volatile Organic Compounds															
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-		-	
Semi-Volatile Organic Compounds															
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	< 260		< 220		< 290		< 130		< 20	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 2600		< 2200		< 2900		< 1300		< 200	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	**120**		30	J	45	J	25	J	0.26	J
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 260		< 220		< 290		< 130		< 20	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
4-Methylphenol	SW8270D	--	--	--	µg/kg	58	J	8.7	J	15	J	8	J	< 20	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	**71**		17	J	28	J	19	J	< 4.1	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	52	J	24	J	29	J	14	J	< 4.1	
Acetophenone	SW8270D	--	--	--	µg/kg	< 530		< 440		< 580		< 260		< 41	
Anthracene	SW8270D	57.2	451	845	µg/kg	**110**		**50**		58	J	**34**		< 4.1	
Atrazine	SW8270D	--	--	--	µg/kg	< 530		< 440		< 580		< 260		< 41	
Benzaldehyde	SW8270D	--	--	--	µg/kg	< 530		37	J	42	J	19	J	0.92	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**290**		**150**		**170**		**110**		1.1	J
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**310**		**140**		**170**		**100**		< 4.1	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**410**		**180**		**210**		**120**		< 4.1	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**230**		**110**		**140**		**83**		< 4.1	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	**110**		**73**		**80**		**39**		< 4.1	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	220	J	110	J	130	J	72	J	< 20	
Biphenyl	SW8270D	--	--	--	µg/kg	36	J	7	J	9.9	J	5.6	J	< 20	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 2600		< 2200		89	J	44	J	< 200	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		2.1	J
Caprolactam	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
Carbazole	SW8270D	--	--	--	µg/kg	< 53		18	J	18	J	16	J	< 4.1	
Chrysene	SW8270D	166	728	1290	µg/kg	**310**		**170**		**190**		**120**		0.94	J
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**57**		**63**		**81**		**39**		< 4.1	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	79	J	21	J	28	J	16	J	< 20	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	< 260		< 220		< 290		< 130		0.58	J
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 260		< 220		< 290		< 130		< 20	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 260		< 220		< 290		< 130		1.5	J
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 260		< 220		< 290		< 130		< 20	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**680**		300		**330**		**210**		1.8	J
Fluorene	SW8270D	77.4	307	536	µg/kg	**110**		30	J	38	J	24	J	< 4.1	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	200		100		**120**		**73**		< 4.1	
Isophorone	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
Naphthalene	SW8270D	176	369	561	µg/kg	120		47		**61**		**37**		< 4.1	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 530		< 430		< 580		< 260		< 41	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 53		< 44		< 58		< 26		< 4.1	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 260		< 220		< 290		< 130		< 20	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 1300**		**< 1100**		**< 1500**		**< 650**		< 100	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**400**		**150**		**170**		**130**		1.6	J
Phenol	SW8270D	4200	8100	12000	µg/kg	< 260		< 220		< 290		< 130		< 20	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 1300		< 1100		< 1500		< 650		< 100	
Pyrene	SW8270D	195	858	1520	µg/kg	**510**		**280**		**310**		**200**		2	J
Polychlorinated Biphenyls															
Aroclor 1016	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		29	J	-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		< 86		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		29		-		-		-	
Organotins															
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 2.1		< 3.5		0.85	J	1.1	J	< 1.6	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 34		< 55		< 36		< 32		< 25	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 2.8		< 4.5		< 3		< 2.6		< 2	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 2.5**		**< 4**	J	**3.5**		**5.6**		**< 1.8**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB20		ND20-TB21		ND20-TB21		ND20-TB21		ND20-TB21	
					Sample ID	ND20-TB20-4060_07/04/2020		ND20-TB21-SURF_07/03/2020		ND20-TB21-0320_07/03/2020		ND20-TB21-2040_07/03/2020		ND20-TB21-4060_07/03/2020	
					Date	07-04-2020		07-03-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	4 - 6		0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	**Analytical method**	**WI-WDNR-SE-INT-2003-TEC**	**WI-WDNR-SE-INT-2003-MEC**	**WI-WDNR-SE-INT-2003-PEC**	**Units**	**N**		**N**		**N**		**N**		**N**	
Dioxins/Furans															
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		**95**	B	-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		**130**	B	-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		1.99	J B	-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		1.6	J	-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		3.2	J	-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		**6.3**		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		**4.9**	I	-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		**4.6**	B	-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		< 4.3		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		1.13	J B	-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		0.6	J	-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		1.3	J	-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		1.1	J	-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		0.49	J	-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		**1.6**		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		**880**	B	-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		**76**	B	-		-	
Other															
Moisture	SM2540	--	--	--	%	**59**		**160**		**74**		**53**		**22**	
Total Organic Carbon	SW9060	--	--	--	%	**3.95**		**3.28**		**1.9**		**1.69**		**0.223**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
Polycyclic Aromatic Hydrocarbons													
1-Methylnaphthalene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
2-Methylnaphthalene	SOM02.4/SV SIM	20.2	111	201	µg/kg	-		-		-		-	
Acenaphthene	SOM02.4/SV SIM	6.7	48	89	µg/kg	-		-		-		-	
Acenaphthylene	SOM02.4/SV SIM	5.9	67	128	µg/kg	-		-		-		-	
Anthracene	SOM02.4/SV SIM	57.2	451	845	µg/kg	-		-		-		-	
Benzo (a) anthracene	SOM02.4/SV SIM	108	579	1050	µg/kg	-		-		-		-	
Benzo (a) pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-	
Benzo (b) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-	
Benzo (ghi) perylene	SOM02.4/SV SIM	170	1685	3200	µg/kg	-		-		-		-	
Benzo (k) fluoranthene	SOM02.4/SV SIM	240	6820	13400	µg/kg	-		-		-		-	
Benzo(e)pyrene	SOM02.4/SV SIM	150	800	1450	µg/kg	-		-		-		-	
C1-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C1-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C1-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C1-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C1-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C2-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C2-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C2-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C2-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C2-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C3-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C3-Fluoranthenes/Pyrenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C3-Fluorenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C3-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C3-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C4-Chrysenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C4-Naphthalenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
C4-Phenanthrenes/Anthracenes	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
Chrysene	SOM02.4/SV SIM	166	728	1290	µg/kg	-		-		-		-	
Dibenz (a,h) anthracene	SOM02.4/SV SIM	33	84	135	µg/kg	-		-		-		-	
Fluoranthene	SOM02.4/SV SIM	423	1327	2230	µg/kg	-		-		-		-	
Fluorene	SOM02.4/SV SIM	77.4	307	536	µg/kg	-		-		-		-	
Indeno (1,2,3-cd) pyrene	SOM02.4/SV SIM	200	1700	3200	µg/kg	-		-		-		-	
Naphthalene	SOM02.4/SV SIM	176	369	561	µg/kg	-		-		-		-	
Perylene	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	
Phenanthrene	SOM02.4/SV SIM	204	687	1170	µg/kg	-		-		-		-	
Pyrene	SOM02.4/SV SIM	195	858	1520	µg/kg	-		-		-		-	
Total 16 PPAH	SOM02.4/SV SIM	--	--	--	µg/kg	-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
Total PAH	Calculated	1610	12205	22800	µg/kg	-		-		-		-	
Metals													
Aluminium	SW6010	--	--	--	mg/kg	**21200**		**12500**		**13400**		**24600**	
Antimony	SW6010	2	13.5	25	mg/kg	**< 14.8**	U *	**< 8**	U *	**< 6.8**	U *	**< 8.4**	U *
Arsenic	SW6010	9.8	21.4	33	mg/kg	**7.2**		**4.4**		**3.5**		**3.9**	
Barium	SW6010	--	--	--	mg/kg	**155**		**92.1**		**91**		**172**	
Beryllium	SW6010	--	--	--	mg/kg	0.92	J	0.64	J	**0.71**		**1.3**	
Cadmium	SW6010	0.99	3	5	mg/kg	0.65	J	0.46	J	0.37	J	0.3	J
Calcium	SW6010	--	--	--	mg/kg	**11600**		**13800**		**12100**		**7690**	
Chromium	SW6010	43	76.5	110	mg/kg	**39.1**		**27.4**		**27**		**41.2**	
Cobalt	SW6010	--	--	--	mg/kg	**14**		**8.8**		**9.3**		**14.4**	
Copper	SW6010	32	91	150	mg/kg	**55.4**		**27.5**		**29**		**34.3**	
Iron	SW6010	20000	30000	40000	mg/kg	**39500**		**23800**		**21400**		**29000**	
Lead	SW6010	36	83	130	mg/kg	**39.9**		**30.6**		**25.7**		**10.6**	
Magnesium	SW6010	--	--	--	mg/kg	**11500**		**9300**		**9520**		**12600**	
Manganese	SW6010	460	780	1100	mg/kg	**1180**	*	**562**		**430**		**336**	
Mercury	SW6010	0.18	0.64	1.1	mg/kg	**< 0.28**	J	0.088	J	0.063	J	< 0.16	
Nickel	SW6010	23	36	49	mg/kg	**34.9**		**22.6**		**23.7**		**37.1**	
Potassium	SW6010	--	--	--	mg/kg	**2930**		**1630**		**1840**		**3510**	
Selenium	SW6010	--	--	--	mg/kg	2.2	J	1	J	< 4		< 4.9	
Silver	SW6010	1.6	1.9	2.2	mg/kg	**< 2.5**		< 1.3		< 1.1		< 1.4	
Sodiium	SW6010	--	--	--	mg/kg	440	J	319	J	303	J	367	J
Thallium	SW6010	--	--	--	mg/kg	< 6.2	U *	< 3.3	U *	< 2.8	U *	< 3.5	U *
Vanadium	SW6010	--	--	--	mg/kg	**55.7**		**38.1**		**37.7**		**57.1**	
Zinc	SW6010	120	290	460	mg/kg	**152**		**106**		**86.9**		**66.2**	
Volatile Organic Compounds													
1,1,1-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,1,2,2-Tetrachloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,1,2-Trichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,1-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,1-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-	
1,2,4-Trichlorobenzene	SW8260	8	13	18	µg/kg	-		-		-		-	
1,2-Dibromo3-chloropropane (DBCP)	SW8260	--	--	--	µg/kg	-		-		-		-	
1,2-Dibromoethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,2-Dichlorobenzene	SW8260	23	--	23	µg/kg	-		-		-		-	
1,2-Dichloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,2-Dichloropropane	SW8260	--	--	--	µg/kg	-		-		-		-	
1,4-Dichlorobenzene	SW8260	31	60.5	90	µg/kg	-		-		-		-	
2-Butanone	SW8260	--	--	--	µg/kg	-		-		-		-	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
2-Hexanone	SW8260	--	--	--	µg/kg	-		-		-		-	
4-Methyl-2-pentanone	SW8260	--	--	--	µg/kg	-		-		-		-	
Acetone	SW8260	--	--	--	µg/kg	-		-		-		-	
Benzene	SW8260	57	83.5	110	µg/kg	-		-		-		-	
Bromodichloromethane	SW8260	--	--	--	µg/kg	-		-		-		-	
Bromoform	SW8260	--	--	--	µg/kg	-		-		-		-	
Bromomethane	SW8260	--	--	--	µg/kg	-		-		-		-	
Carbon Disulfide	SW8260	--	--	--	µg/kg	-		-		-		-	
Carbon Tetrachloride	SW8260	--	--	--	µg/kg	-		-		-		-	
CFC-12	SW8260	--	--	--	µg/kg	-		-		-		-	
Chlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-	
Chloroethane	SW8260	--	--	--	µg/kg	-		-		-		-	
Chloroform	SW8260	--	--	--	µg/kg	-		-		-		-	
Chloromethane	SW8260	--	--	--	µg/kg	-		-		-		-	
cis-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-	
cis-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-	
CYCLOHEXANE	SW8260	--	--	--	µg/kg	-		-		-		-	
Dibromochloromethane	SW8260	--	--	--	µg/kg	-		-		-		-	
Ethylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-	
Isopropylbenzene	SW8260	--	--	--	µg/kg	-		-		-		-	
m,p-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-	
M-Dichlorobenzene	SW8260	--	--	--	µg/kg	-		-		-		-	
Methyl Acetate	SW8260	--	--	--	µg/kg	-		-		-		-	
Methyl tert-Butyl Ether	SW8260	--	--	--	µg/kg	-		-		-		-	
Methylcylohexane	SW8260	--	--	--	µg/kg	-		-		-		-	
Methylene Chloride	SW8260	--	--	--	µg/kg	-		-		-		-	
o-Xylene	SW8260	--	--	--	µg/kg	-		-		-		-	
Styrene	SW8260	--	--	--	µg/kg	-		-		-		-	
Tetrachloroethene	SW8260	--	--	--	µg/kg	-		-		-		-	
Toluene	SW8260	890	1345	1800	µg/kg	-		-		-		-	
trans-1,2-Dichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-	
trans-1,3-Dichloropropene	SW8260	--	--	--	µg/kg	-		-		-		-	
Trichloroethene	SW8260	--	--	--	µg/kg	-		-		-		-	
Trichlorofluoromethane	SW8260	--	--	--	µg/kg	-		-		-		-	
Vinyl Chloride	SW8260	--	--	--	µg/kg	-		-		-		-	
Xylenes (total)	SW8260	25	37.5	50	µg/kg	-		-		-		-	
Semi-Volatile Organic Compounds													
2,2'-Oxybis(1-Chloropropane)	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
2,4,5-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
2,4,6-Trichlorophenol	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
2,4-Dichlorophenol	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
2,4-Dimethyl Phenol	SW8270D	290	--	290	µg/kg	**< 470**		**< 460**		**< 380**		< 53	
2,4-Dinitrophenol	SW8270D	--	--	--	µg/kg	< 4700		< 4600		< 3800		< 530	
2,4-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
2,6-Dinitrotoluene	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
2-Chloronaphthalene	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
2-Chlorophenol	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
2-Methylnaphthalene	SW8270D	20.2	111	201	µg/kg	41	J	51	J	46	J	< 11	
2-Methylphenol	SW8270D	6700	--	6700	µg/kg	< 470		< 460		< 380		< 53	
2-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
2-Nitrophenol	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
3,3'-Dichlorobenzidine	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
3-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
4,6-Dinitro-2-Methylphenol	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
4-Bromodiphenyl ether	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
4-Chloro-3-methylphenol	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
4-Chlorodiphenyl ether	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
4-Methylphenol	SW8270D	--	--	--	µg/kg	22	J	24	J	22	J	< 53	
4-Nitrophenol	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
Acenaphthene	SW8270D	6.7	48	89	µg/kg	23	J	**98**		47	J	**< 11**	
Acenaphthylene	SW8270D	5.9	67	128	µg/kg	41	J	38	J	38	J	**< 11**	
Acetophenone	SW8270D	--	--	--	µg/kg	< 960		< 930		< 780		< 110	
Anthracene	SW8270D	57.2	451	845	µg/kg	67	J	**190**		**83**		< 11	
Atrazine	SW8270D	--	--	--	µg/kg	< 960		< 930		< 780		< 110	
Benzaldehyde	SW8270D	--	--	--	µg/kg	27	J	47	J	41	J	22	J
Benzo (a) anthracene	SW8270D	108	579	1050	µg/kg	**250**		**450**		**220**		< 11	
Benzo (a) pyrene	SW8270D	150	800	1450	µg/kg	**220**		**360**		**210**		< 11	
Benzo (b) fluoranthene	SW8270D	240	6820	13400	µg/kg	**300**		**460**		**250**		< 11	
Benzo (ghi) perylene	SW8270D	170	1685	3200	µg/kg	**180**		**260**		**160**		< 11	
Benzo (k) fluoranthene	SW8270D	240	6820	13400	µg/kg	120		170		**83**		< 11	
Benzo(e)pyrene	SW8270D	150	800	1450	µg/kg	170	J	250	J	150	J	< 53	
Biphenyl	SW8270D	--	--	--	µg/kg	< 470		14	J	11	J	< 53	
bis(2-Chloroethoxy) Methane	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Bis-(2-Chloroethyl) Ether	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
bis(2-Ethylhexyl)phthalate	SW8270D	--	--	--	µg/kg	< 4700		680	J	83	J	< 530	
Butyl Benzyl Phthalate	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Caprolactam	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
Carbazole	SW8270D	--	--	--	µg/kg	26	J	79	J	28	J	< 11	
Chrysene	SW8270D	166	728	1290	µg/kg	**300**		**460**		**230**		< 11	
Dibenz (a,h) anthracene	SW8270D	33	84	135	µg/kg	**120**		**140**		**100**		< 11	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
Dibenzofuran	SW8270D	150	365	580	µg/kg	27	J	78	J	31	J	< 53	
Diethyl Phthalate	SW8270D	610	855	1100	µg/kg	26	J	15	J	< 380		1.4	J
Dimethyl Phthalate	SW8270D	530	--	530	µg/kg	< 470		< 460		< 380		< 53	
Di-n-Butylphthalate	SW8270D	2200	9600	17000	µg/kg	< 470		< 460		< 380		< 53	
Di-n-Octyl phthalate	SW8270D	580	22790	45000	µg/kg	< 470		< 460		< 380		< 53	
Fluoranthene	SW8270D	423	1327	2230	µg/kg	**560**		**1200**		**450**		< 11	
Fluorene	SW8270D	77.4	307	536	µg/kg	34	J	**150**		52	J	< 11	
Hexachlorobenzene	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
Hexachlorobutadiene	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
Hexachlorocyclopentadiene	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Hexachloroethane	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Indeno (1,2,3-cd) pyrene	SW8270D	200	1700	3200	µg/kg	**160**		**240**		140		< 11	
Isophorone	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Naphthalene	SW8270D	176	369	561	µg/kg	55	J	72	J	65	J	< 11	
Nitrobenzene	SW8270D	--	--	--	µg/kg	< 960		< 930		< 770		< 110	
N-Nitroso-Di-N-Propylamine	SW8270D	--	--	--	µg/kg	< 96		< 93		< 78		< 11	
N-Nitrosodiphenylamine	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
P-Chloroaniline	SW8270D	--	--	--	µg/kg	< 470		< 460		< 380		< 53	
Pentachlorophenol	SW8270D	150	175	200	µg/kg	**< 2400**		**< 2400**		**< 2000**		**< 270**	
Phenanthrene	SW8270D	204	687	1170	µg/kg	**200**		**1100**		**280**		1.4	J
Phenol	SW8270D	4200	8100	12000	µg/kg	< 470		< 460		< 380		< 53	
P-Nitroaniline	SW8270D	--	--	--	µg/kg	< 2400		< 2400		< 2000		< 270	
Pyrene	SW8270D	195	858	1520	µg/kg	**480**		**970**		**410**		< 11	
Polychlorinated Biphenyls													
Aroclor 1016	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1221	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1232	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1242	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1248	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1254	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1260	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1262	SW8081	--	--	--	µg/kg	-		-		-		-	
Aroclor 1268	SW8081	--	--	--	µg/kg	-		-		-		-	
Total PCBs (NDs=0)	CALC	60	368	676	µg/kg	-		-		-		-	
Organotins													
Dibutyl Tin	RESTEK	--	--	--	µg/kg	< 3.7		1.5	J	**3**		< 2.1	
Dibutyltin as ion	RESTEK	--	--	--	µg/kg	-		-		-		-	
Monobutyltin as ion	RESTEK	--	--	--	µg/kg	< 59		< 39		< 33		< 34	
Tetrabutyl Tin	RESTEK	--	--	--	µg/kg	< 4.9		< 3.2		< 2.7		< 2.8	
Tri-n-butyltin hydride	RESTEK	0.52	1.73	2.94	µg/kg	**< 4.3**		**6.6**		**15**		**< 2.4**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

					Location	ND20-TB22		ND20-TB22		ND20-TB22		ND20-TB22	
					Sample ID	ND20-TB22-SURF_06/28/2020		ND20-TB22-0320_07/03/2020		ND20-TB22-2040_07/03/2020		ND20-TB22-4060_07/03/2020	
					Date	06-28-2020		07-03-2020		07-03-2020		07-03-2020	
					Sample depth (ftbss)	0 - 0.3		0.3 - 2		2 - 4		4 - 6	
Parameter	Analytical method	WI-WDNR-SE-INT-2003-TEC	WI-WDNR-SE-INT-2003-MEC	WI-WDNR-SE-INT-2003-PEC	Units	N		N		N		N	
Dioxins/Furans													
1,2,3,4,6,7,8-HPCDD	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,4,6,7,8-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,4,7,8,9-HPCDF	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,4,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,4,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,6,7,8-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,7,8,9-HxCDD	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,7,8,9-HxCDF	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,7,8-PeCDD	E1613B	--	--	--	pg/g	-		-		-		-	
1,2,3,7,8-PeCDF	E1613B	--	--	--	pg/g	-		-		-		-	
2,3,4,6,7,8-HXCDF	E1613B	--	--	--	pg/g	-		-		-		-	
2,3,4,7,8-PECDF	E1613B	--	--	--	pg/g	-		-		-		-	
2,3,7,8-TCDD	E1613B	--	--	--	pg/g	-		-		-		-	
2,3,7,8-TCDF	E1613B	--	--	--	pg/g	-		-		-		-	
OCDD	E1613B	--	--	--	pg/g	-		-		-		-	
OCDF	E1613B	--	--	--	pg/g	-		-		-		-	
Other													
Moisture	SM2540	--	--	--	%	**190**		**86**		**55**		**60**	
Total Organic Carbon	SW9060	--	--	--	%	**4.52**		**2.52**		**2.12**		**2.61**	

Table 1-3
2020 Sediment Analytical Results
Tower Avenue Slip - Superior, WI

Footnotes:
< : Denotes concentration less than indicated detection limit
< Bolded with concentration underlined: Denotes concentration was less than indicated detection limit, but above one or more comparison criteria.
Bold = analyte detected above laboratory reporting limit.
Highlighted Yellow = Exceeds one or more WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC, MEC or PEC)
WI-WDNR-SE-INT-2003-TEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. (TEC-threshold effect concentration)
WI-WDNR-SE-INT-2003-MEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003. MEC-midpoint effect concentration)
WI-WDNR-SE-INT-2003-PEC = WDNR -Consensus-Based Sediment Quality Guidelines. Interim Guidance. December 2003.(PEC-probable effect concentration).
N = Sample type is a normal sample.
ND = Non-detects
"-" = Not analyzed
"--" = No Standard/Guideline
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
pg/g = picogram per gram.
% = percent
ft bss: feet below sediment surface
AVS = Acid Volatile Sulfide
SEM = Simultaneously Extractable Metals
* = Post-digestion spike at 2 times the parent concentration.
B = Analyte was detected above the method detection limit in the method blank.
D = Surrogate value being reported is from a diluted analysis and the results will be considered diluted.
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte.
P = Results are flagged if the percent difference of the concentrations between the 2 columns is greater than 25%.
J* = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte, but may be biased high.
U* = Indicates the analyte was analyzed but was not detected above the MDL. Post-digestion spike at 2 times the parent concentration.
J B = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte. The analyte was detected above the MDL in the method blank.
JD = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte. Surrogate value being reported is from a diluted analysis and the results will be considered diluted.
JP = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte. Results are flagged if the percent difference of the concentrations between the 2 columns is greater than 25%.
BJ = Analyte was detected above the method detection limit in the method blank. The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte.
*D = Surrogate value being reported is from a diluted analysis and the results will be considered diluted. Post-digestion spike at 2 times the parent concentration.
Definitions were not found for the following flags: I

Table 2
Sample Locations and Depths
Tower Avenue Slip - Superior, WI

Location ID	Sampling Year	Analytes	Sample Depth Intervals (ftbss)	Sediment Bottom Elevation (ft)	Collecting Consultant	Cleint	Notes
HOB-1	1994	Hg, Pb, AS, AVS/SEM, TOC, particle size, mean total abundance (taxa richness)	0-0.164 (surf) 0-0.164 (Vibracore) 0.164-0.656 (Vibracore)	N/A	MPCA	US EPA	Brown sandy clay (slight oil sheen) Brown sandy clay (slight oil sheen) Brown sandy clay (slight oil sheen)
SW15-SLB10	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0	598.8	EA	US EPA	Surface sediment brown sandy clay with organic odor and organic material.
SW15-SLB11	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0 4.0-6.0 6.0-8.0	595.1	EA	US EPA	Surface sediment brown sandy silt with black gravel and woody debris. Faint organic odor noted in surface sediment and sheen observed.
SW15-SLB12	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0 4.0-6.0	592.9	EA	US EPA	Surface sediment brown silty clay with trace sand.
SW15-SLB13	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0 4.0-6.0	586.4	EA	US EPA	Surface sediment brown clayey silt.
SW15-SLB14	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0	582.2	EA	US EPA	Surface sediment brown silty clay with vegetation.
SW15-SLB15	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0 4.0-6.0	596.7	EA	US EPA	Surface sediment brown silty sand.
SW15-SLB16	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) 0.5-2.0 2.0-4.0	580.8	EA	US EPA	Surface sediment brown clayey silt with trace sand.
SW15-SLB17	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) No core collected	569.8	EA	US EPA	Three coring attempts conducted and no recover achieved. Surface sediment brown silty sand with gravel and shell fragments. Sheen observed in surface sediment.
SW15-SLB18	2015	PAHs, PCBs, Metals, VOCs, SVOCs, Ammonia, SEM/AVS, grain size, TOC, % moisture	0-0.5 (surf) No core collected	574.9	EA	US EPA	Moved location 100 ft W of target (conditions similar to SLB 17). One attempt made an no core collected. Field conditions indicate area is heavily scoured. Three ponar grabs retreived to obtain adequate volume for surface sample analysis. Surface sediment brown sandy clay with cobbles and large clumps of hard, red clay.
ND20-TB01	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin, Dioxins/Furans TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (Biological tissue), Organotins (bio)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0 10.0-12.0 12.0-14.0 14.0-16.0	595.3	EA	WDNR	Light brown silty-clays with low/medium cohesion. Small sheens, no odor. Vegetative debris.

Table 2
Sample Locations and Depths
Tower Avenue Slip - Superior, WI

Location ID	Sampling Year	Analytes	Sample Depth Intervals (ftbss)	Sediment Bottom Elevation (ft)	Collecting Consultant	Cleint	Notes
ND20-TB02	2020	TAL Metals + Mercury, VOCs, SVOCs, PCBs, TOC, Grain Size, % Moisture, Coal Particles,	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0 10.0-12.0 12.0-14.0 14.0-16.0	601.5	EA	WDNR	Light brown reddish silty fine sand. No odor, no sheen.
ND20-TB03	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin (sed), Dioxins/Furans, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (bio), Organotins (bio)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	591.76	EA	WDNR	Light brown silty-clays with low/medium cohesion. No odor, no sheen. Lots of woody/vegetative debris.
ND20-TB04	2020	TAL Metals + Mercury, VOCs, SVOCs, PCBs, TOC, Grain Size, % Moisture, Coal Particles,	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0 10.0-12.0 12.0-14.0 14.0-16.0	593.89	EA	WDNR	Light brown silty-clay with medium cohesion. Some sheen. Trace vegetative debris. No odor.
ND20-TB05	2020	TAL Metals + Mercury, VOCs, SVOCs, PCBs, TOC, Grain Size, % Moisture, Coal Particles, Organotins (sed), Aliphatic Hydrocarbons	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	590.39	EA	WDNR	Light brown silts with loose cohesion over medium brown silty-clay with medium cohesion. No odor, sheen at surface of sediments.
ND20-TB06	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (Biological tissue), Organotins	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	587.6	EA	WDNR	Medium brown silts over medium brown silty-clay with medium cohesion. Slight petroleum odor, sheen present.
ND20-TB07	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin (sed), Dioxins/Furans, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (Biological tissue), Organotins	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	588.73	EA	WDNR	Light brown silts over light brown silty-clays with low/medium cohesion. Sheens a surface of sediments, no odor.
ND20-TB08	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, Coal Particles	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	587.41	EA	WDNR	Light brown silty-clays with medium cohesion. No odor, no sheen.

Table 2
Sample Locations and Depths
Tower Avenue Slip - Superior, WI

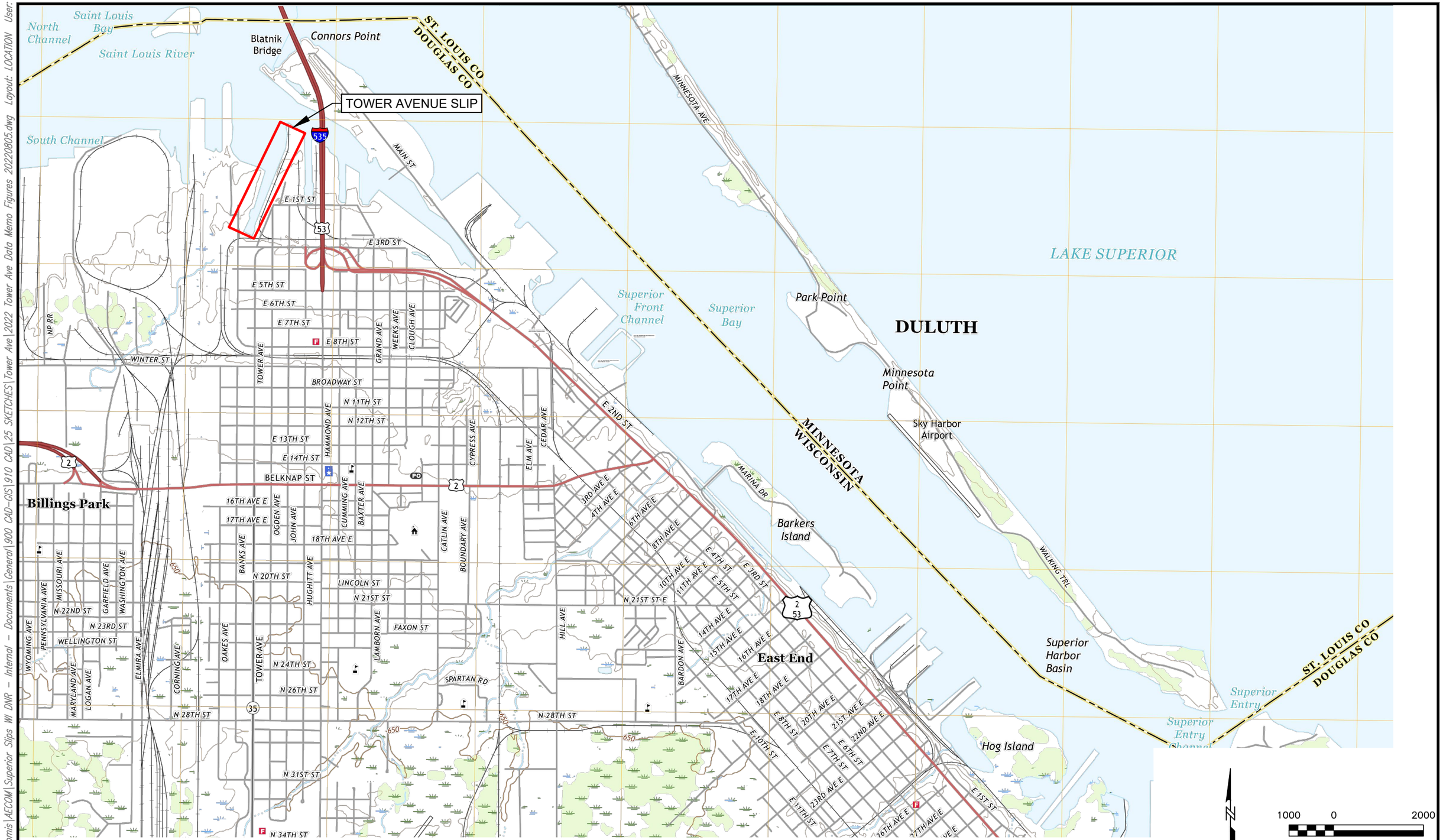
Location ID	Sampling Year	Analytes	Sample Depth Intervals (ftbss)	Sediment Bottom Elevation (ft)	Collecting Consultant	Cleint	Notes
ND20-TB09	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, Coal Particles, organotin (sed)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	582.76	EA	WDNR	Light brown silts over medium brown silty-clays with medium cohesion. No odor, no sheen.
ND20-TB10	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin (sed), Dioxins/Furans, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (bio), Organotins (bio)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0 6.0-8.0 8.0-10.0	582.25	EA	WDNR	Light brown silts over light brown silty-clays with low/medium cohesion. No odor, slight sheen.
ND20-TB11	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0	577.19	EA	WDNR	Light brown silty-clays with medium cohesion. No odor, no sheen.
ND20-TB12	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0	579.99	EA	WDNR	Light brown silts over medium brown silty-clays with medium cohesion. No odor, no sheen.
ND20-TB13	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %	0-0.3 (surf) 0.3-2.0 2.0-3.0 3.0-3.5	576.13	EA	WDNR	Thin layer of loose light brown silts over medium brown silty-clay with medium cohesion. No odor, no sheen.
ND20-TB14	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %	0-0.3 (surf) 0.3-2.0	577.45	EA	WDNR	Light brown silts with loose cohesion with small (1 inch diameter) dense clay chunks throughout. Slight Sheen. No odor.
ND20-TB15	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin (sed), Dioxins/Furans, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (bio), Organotins (bio)	0-0.3 (surf) 0.3-1.7 1.7-2.3	568.8	EA	WDNR	Medium brown silty-clays with medium cohesion. No odor. Sheen present. Some small chunks of coal.
ND20-TB16	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, organotin (sed)	0-0.3 (surf) 0.3-2.0	576.79	EA	WDNR	Light brown silts with loose cohesion over medium brown clays with medium cohesion. Trace chunks of dense clay. Shell hash.
ND20-TB17	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %	surf 0.3-2.0 2.0-4.0	569.52	EA	WDNR	Light brown silty-clays with loose cohesion. Trace medium sands. Shell shash. No odor. Some sheens.
ND20-TB18	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, organotin (sed)	surf 0.3-2.0	576.79	EA	WDNR	Light brown silts over medium brown clays with trace fine sands. No odor, no sheen.
ND20-TB19	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, organotin (sed)	surf 0.3-2.0 2.0-4.0 4.0-6.0	575.06	EA	WDNR	Light brown silts over medium brown silty-clay. No odor, no sheen. Some sort of ore/metallic chunks, photo taken.
ND20-TB20	2020	PAHS, TAL Metals + Mercury, VOCs, SVOCs, PCBs, Organotin (sed), Dioxins/Furans, TOC, Grain Size, % Moisture, Aliphatic Hydrocarbons, Coal Particles, Toxicity (28 day, 10 day), Bioaccumulation, Mercury (bio), Organotins (bio)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0	589.72	EA	WDNR	Light brown silts with loose cohesion over medium brown silty-clays with medium cohesion. Slight organic odor, no sheen.

Table 2
Sample Locations and Depths
Tower Avenue Slip - Superior, WI

Location ID	Sampling Year	Analytes	Sample Depth Intervals (ftbss)	Sediment Bottom Elevation (ft)	Collecting Consultant	Cleint	Notes
ND20-TB21	2020	PAHs, TAL Metals + Mercury, SVOCs, PCBs, Organotin (sed), TOC, Grain Size, % Moisture	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0	573.63	EA	WDNR	Medium brown silts over medium brown silty-clays with low/medium cohesion. No odor, no sheen.
ND20-TB22	2020	TAL Metals + Mercury, SVOCs, TOC, Grain Size, Moisture %, organotin (sed)	0-0.3 (surf) 0.3-2.0 2.0-4.0 4.0-6.0	574.06	EA	WDNR	Light brown silty-clays with loose cohesion. Sheen present. No odor.

Notes:
% = Percent; "+" = Plus; ft = feet; ftbss = feet below sediment surface; N/A = Not Available.
EA = EA Engineering, Science, and Technology, Inc. PBC
MPCA = Minnesota Pollution Control Agency
WDNR = Wisconsin Department of Natural Resources
US EPA = United States Environmental Protection Agency
PAH = Polycyclic Aromatic Hydrocarbon
PCBs = Polychlorinated Biphenyls
SEM/AVS = Simultaneously Extracted Metals/Acid Volatile Sulfides
SVOCs = Semi-Volatile Organic Compounds
TAL = Target Analyte List
TCL = Target Compound List
TOC = Total Organic Carbon
VOCs = Volatile Organic Compounds
surf = surficial sediment sample

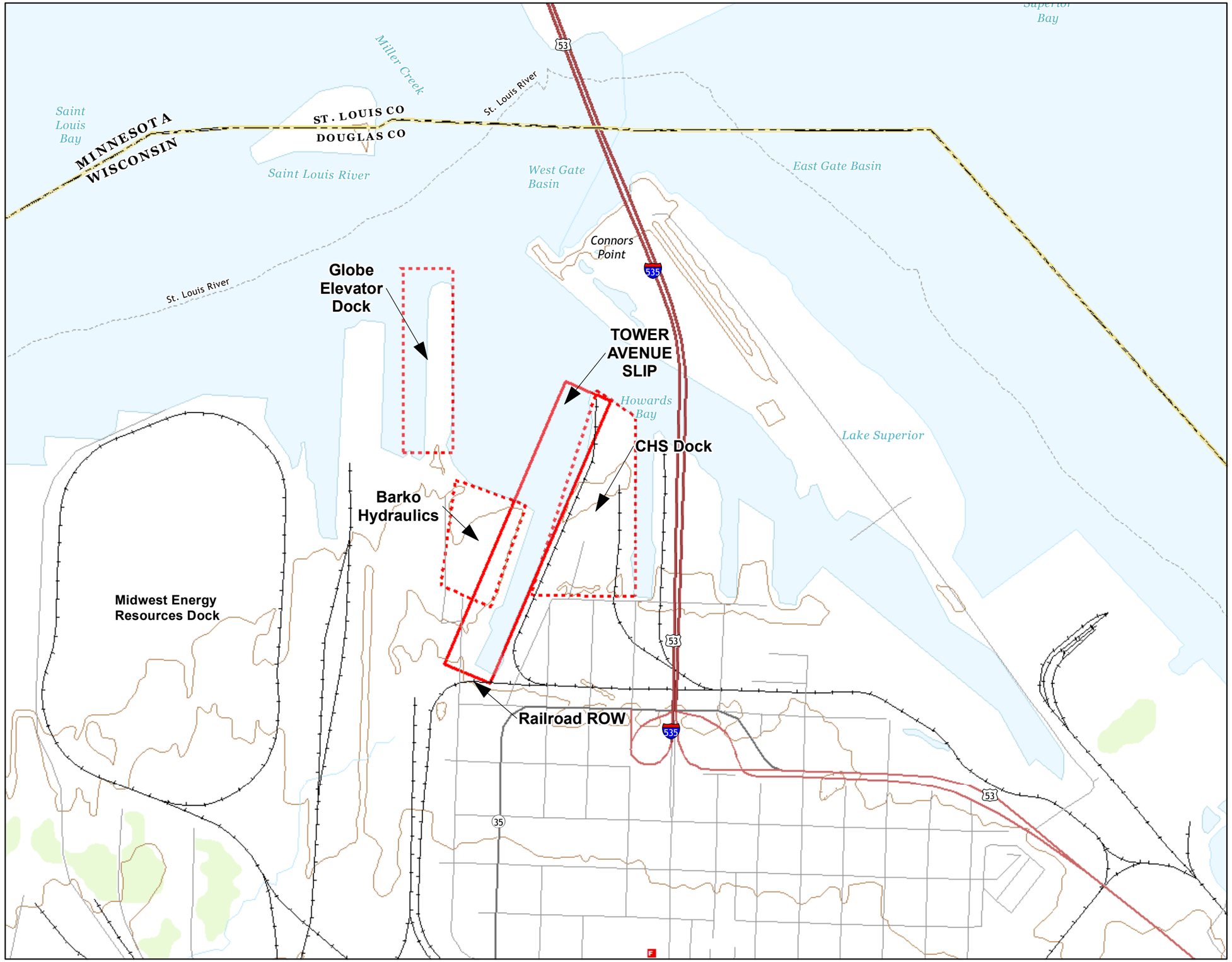
Figures



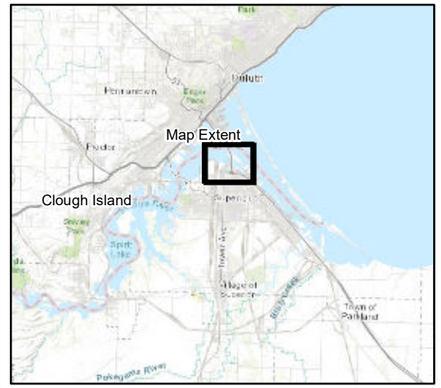
AECOM

SUPERIOR SLIPS WISCONSIN DNR SUPERIOR, WISCONSIN		**USGS SITE LOCATION MAP**
DATE: 08/05/2022	DRWN: JLL/SAP	**FIGURE 1**

File: C:\Users\josh.loomis\AECOM\Superior Slips WI DNR - Internal - Documents\General\900 CAD-GIS\910 CAD\25 SKETCHES\Tower Ave\2022 Tower Ave Data Memo Figures 20220805.dwg Layout: LOCATION User: josh.loomis



VICINITY MAP



USGS 7.5-Minute Topographic Map
Superior, WI Quadrangle

N

0 500 1,000 2,000

Feet

AECOM

Title: **Current Layout**

Project: Superior Slips
Superior, Wisconsin

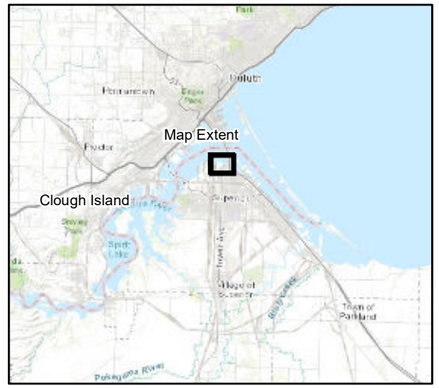
Client: Wisconsin DNR

File Name: Tower Avenue Site Map.mxd

Project No.:	Date:	Figure:
60685299	8/8/2022	2

Path: L:\DCS\GIS\Projects\Superior\MXD\Tower Avenue Site Map.mxd

VICINITY MAP



Legend

- Approximate 1887 Shoreline
- Former Marsh Area

Source: Maxar
Date: 10/18/2021

N

0 200 400 800

Feet

AECOM

Title:	**Marsh Location Map Tower Avenue Slip**
Project:	Superior Slips Superior, Wisconsin
Client:	Wisconsin DNR
File Name:	Tower Avenue Marsh Map.mxd

Project No.:	Date:	Figure:
60685299	8/8/2022	3

Path: L:\DCS\GIS\Projects\Superior\MXD\Tower Avenue Marsh Map.mxd

VICINITY MAP

Legend

- 2021 Site Investigation Report
- 2016 Site Characterization Report
- 1997 Sediment Assessment
- Sediment Characterization and Survey Area

Image Source: Douglas County
Image Date: 2022

N

0 200 400 800

Feet

AECOM

Title:	**Sample Locations Tower Avenue Slip**
Project:	Superior Slips Superior, Wisconsin
Client:	Wisconsin DNR
File Name:	Sample Location Map Tower Ave Slip.mxd
Project No.:	60685299
Date:	8/2/2022
Figure:	4

Path: L:\DCS\GIS\Projects\Superior\MXD\Sample Location Map Tower Ave Slip.mxd

Appendix A Figure 1-2 St. Louis Bay and Superior Bay AOC

VICINITY MAP

Legend

Assessment Areas

0 0.5 1
Miles

Data Sources:
ArcGIS Online Imagery 2012

Map Date: 12/16/2015

FIGURE 1-2
St. Louis River and Bay Area of Concern Assessment Areas

Superior Waterfront Characterization
St. Louis River and Bay Area of Concern
Superior, Wisconsin

Document Path: \\lovetongis\GISdata\Federal\Midwest\Wisconsin\Superior_Waterfront\MXD\SSTM\SSTM_Figure 1-2 Area of Concern Assessment Areas.mxd

Appendix B Microscopic Coal Results

Appendix B
Microscopic Coal Results
Tower Avenue Slip - Superior, WI

Location Identification	Depth Interval (ft)	Date Sampled	Time Sampled (local)	Result (%)
ND20-TB01-SURF	surf	6/29/2020	14:10	2.0
ND20-TB01-2040	2.0-4.0	6/30/2020	14:00	2.0
ND20-TB02-SURF	surf	6/28/2020	10:35	9.0
ND20-TB02-8010	8.0-10.0	6/30/2020	17:25	9.0
ND20-TB03-SURF	surf	6/29/2020	15:05	2.0
ND20-TB03-8010	8.0-10.0	7/1/2020	8:00	5.0
ND20-TB04-SURF	surf	6/28/2020	10:55	2.0
ND20-TB04-2040	2.0-4.0	7/1/2020	10:30	7.0
ND20-TB05-SURF	surf	6/28/2020	11:35	2.0
ND20-TB05-2040	2.0-4.0	6/29/2020	8:20	1.0
ND20-TB06-SURF	surf	6/29/2020	16:00	5.0
ND20-TB06-2040	2.0-4.0	6/29/2020	9:30	5.0
ND20-TB07-SURF	surf	6/29/2020	12:25	4.0
ND20-TB07-2040	2.0-4.0	6/29/2020	11:00	4.0
ND20-TB08-SURF	surf	6/28/2020	10:15	5.0
ND20-TB08-2040	2.0-4.0	6/29/2020	12:30	3.0
ND20-TB09-SURF	surf	6/28/2020	9:37	6.0
ND20-TB09-2040	2.0-4.0	6/29/2020	14:20	4.0
ND20-TB10-SURF	surf	6/29/2020	13:20	1.0
ND20-TB10-2040	2.0-4.0	6/29/2020	7:45	1.0
ND20-TB15-SURF	surf	6/29/2020	16:40	2.0
ND20-TB20-SURF	surf	7/1/2020	10:05	2.0

% - percent

surf - surface sample (0-0.3 feet)

ft = feet below sediment surface

Appendix C Figure D3 – Drainage Pattern Map for Tower Avenue Slip

Channel

Saint Louis River

Blatnik Bridge

Superior

DOUGLAS CO

South Channel

Tower Avenue

Winter Street (North)

Likely Culvert Connection
Inferred Based on Topography

MAIN ST

E 3RD ST

E 5TH ST

E 6TH ST

E 8TH ST

E 1ST ST

WINTER ST

GRAND AVE

WEEKS AVE

CLOUGH AVE

9 10 11 14 15 16

535 53

UPRR

Legend

- Task Areas
- PLSS Sections
- PLSS Quarter Sections
- Elevation Breaks
- Land Downslope Direction

Elevation (ft)

- 579.8 - 605
- 605 - 610
- 610 - 615
- 615 - 620
- 620 - 625
- 625 - 630
- 630 - 751.9

Project: #18328 | Directory: GIS | Created by: DGF | Date: 8/13/2019 | Filename: D3_Drainage Topography wt | Coordinate System: NAD 1983 2011 WISCRS Douglas Feet

Aerial Photo Source: USGS 2018
Elevation Source:
City of Superior LIDAR 2008

Storm Sewer: City Superior GIS

N W E S

GRAPHIC SCALE
0 800 1,600
Feet

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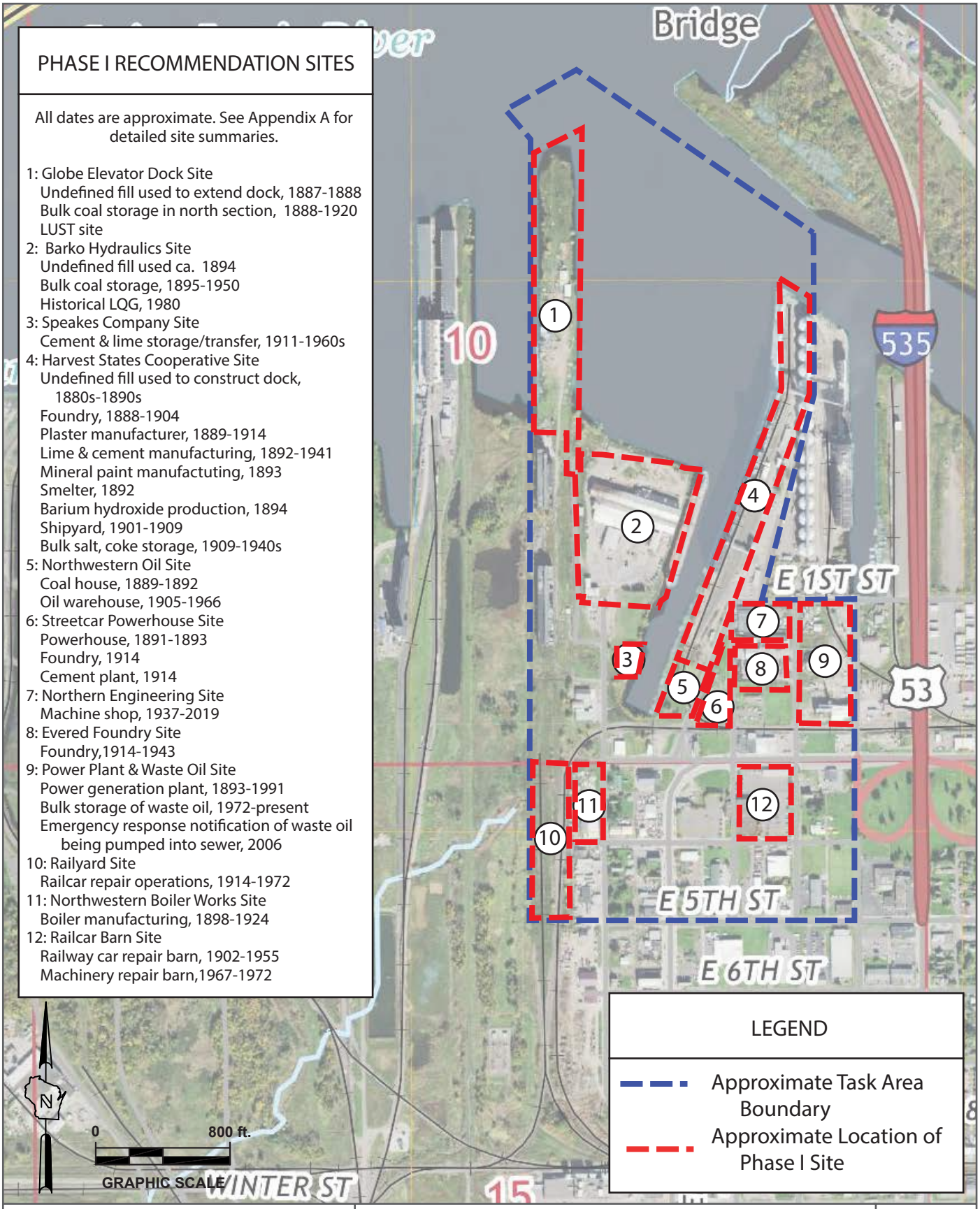
DRAINAGE: TOPOGRAPHY

Winter Street & Tower Avenue - 2008

FIGURE
D3

Appendix D Figure 5 – Phase 1 Recommendation Sites



PHASE I RECOMMENDATION SITES

All dates are approximate. See Appendix A for detailed site summaries.

1: Globe Elevator Dock Site
- Undefined fill used to extend dock, 1887-1888
- Bulk coal storage in north section, 1888-1920
- LUST site

2: Barko Hydraulics Site
- Undefined fill used ca. 1894
- Bulk coal storage, 1895-1950
- Historical LQG, 1980

3: Speakes Company Site
- Cement & lime storage/transfer, 1911-1960s

4: Harvest States Cooperative Site
- Undefined fill used to construct dock, 1880s-1890s
- Foundry, 1888-1904
- Plaster manufacturer, 1889-1914
- Lime & cement manufacturing, 1892-1941
- Mineral paint manufactuting, 1893
- Smelter, 1892
- Barium hydroxide production, 1894
- Shipyard, 1901-1909
- Bulk salt, coke storage, 1909-1940s

5: Northwestern Oil Site
- Coal house, 1889-1892
- Oil warehouse, 1905-1966

6: Streetcar Powerhouse Site
- Powerhouse, 1891-1893
- Foundry, 1914
- Cement plant, 1914

7: Northern Engineering Site
- Machine shop, 1937-2019

8: Evered Foundry Site
- Foundry,1914-1943

9: Power Plant & Waste Oil Site
- Power generation plant, 1893-1991
- Bulk storage of waste oil, 1972-present
- Emergency response notification of waste oil being pumped into sewer, 2006

10: Railyard Site
- Railcar repair operations, 1914-1972

11: Northwestern Boiler Works Site
- Boiler manufacturing, 1898-1924

12: Railcar Barn Site
- Railway car repair barn, 1902-1955
- Machinery repair barn,1967-1972

LEGEND

- Approximate Task Area Boundary
- Approximate Location of Phase I Site

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PHASE I RECOMMENDATIONS

TOWER AVE TASK AREA

FIGURE 5

Project : 18328 | Directory: Figures | Filename: 18328_Tower_Ave_Fig 5_P1R.pdf | Created By: MSR | Date: 08/13/2019