SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.	VPLE No.		
02-67-561163			
Parcel ID No.			
V5-0081			
FID No.	WTM Coordinates	S	
267069880	X 43.3326100 Y	-88.2888	3000
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
NIPHOS COATINGS INC (FORMER)	Source Area 🛛 🖂 Pa	arcel Cente	r
Site Address	City	State	ZIP Code
308 & 310 Oak Street	Slinger	WI	53086
Acres Ready For Use		I	1
0.	32		
Responsible Party (RP) Name			
Washington Co (acquired via tax foreclosure)			
Company Name			
Washington County - Contact Deb Sielski			
Mailing Address	City	State	ZIP Code
432 E Washington St	West Bend	WI	53095
Phone Number	Email		
(262) 335-4772	deb.sielski@co.washington.wi.us		
\boxtimes Check here if the RP is the owner of the source property.			
Environmental Consultant Name			
Erin Gross, PG			
Consulting Firm			
Stantec Consulting Services Inc.	C:t.	Chata	ZID Code
Mailing Address	City	State	ZIP Code
12075 Corporate Pkwy, Suite 200	Mequon	WI	53092
Phone Number	Email		
(608) 628-6278	erin.gross@stantec.com		
Fees and Mailing of Closure Request	ID 740 M/s. Astro-October (s.s.(s.) (s. (b.s. DND	Deviewel	
 Send a copy of page one of this form and the applicable ch. N (Environmental Program Associate) at http://dnr.wi.gov/topic/ 		0	
\$1,050 Closure Fee	S300 Database Fee for Soil		
\$350 Database Fee for Groundwater or	Total Amount of Payment \$		
Monitoring Wells (Not Abandoned)	🔀 Resubmittal, Fees Previously Pai		
 Send one paper copy and one e-copy on compact disk of t assigned to your site. Submit as unbound senarate document 			

assigned to your site. Submit as <u>unbound, separate documents</u> in the order and with the titles prescribed by this form. For electronic document submittal requirements, see http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

NIPHOS COATINGS INC (FORMER) Activity (Site) Name Case Closure Form 4400-202 (R 8/16)

Page 2 of 18

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings. The site is located at 308 & 310 Oak Street in the Village of Slinger, Washington County, Wisconsin. The site is located within the southwest 1/4 of the northeast 1/4 of Section 18, Township 10 North, Range 19 East. Based on the local assessor's office the site is identified as "V SLINGER ADDN TO 1ST ADDN LOT 9+PT LOT 10 BLK 5 DOC 1396243". The site is located north of Kettle Moraine Drive, south of Oak Street, west of Water Street, and east of Chestnut Street. Adjoining properties include residential homes and light industrial properties.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.

The two buildings at the site are currently vacant. Industrial use of the site dates back to 1875, when Bernard Schaefer built a watch and jewelry factory. Sanborn fire insurance maps dated 1894 identifies the site as a cigar factory. In 1900, the site included additional buildings and identified as being owner by P. Schaefer and used as an organ factory and a cigar factory. The organ factory included a gasoline engine. By 1914, the site layout had again changed, as well as the use which was now a "garage." Building additions were added in 1915, 1920, and 1928. Reportedly a fire destroyed the factory in 1929. The 1933 Sanborn map shows the Shaefer Organ Co. with a building that appears to be the northern portion of the existing structure, and a warehouse building consistent with the current residential building. In 1942, the U.S. government restricted the manufacture of musical instruments, but when World War II ended, the company resumed musical instrument manufacturing. Niphos Coatings reportedly occupied the factory in the first week of July 1982, and reportedly operated at the site from before 2007 through March 2010 when the business closed. The property was reportedly sold in 2006 by the Bierman family to Harju Holdings LLC. The Site was acquired by Washington County from Harju Holdings LLC through tax foreclosure in December 2015.

C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
 The site is currently zoned "B-1" (Commercial District)

The site is currently zoned "B-1" (Commercial District).

D. Describe how and when site contamination was discovered.

A removal action was completed by USEPA in response to an inspection conducted by the State and Village on 8/20/2012, that resulted in a state emergency management official becoming sickened by exposure to chemical vapors in the property and receiving treatment at a hospital. At the time of the inspection, the building was estimated to contain: 750 lbs of copper cyanide, 27,598 lbs of nickel sulfate, 4,198 lbs of nitric acid, 3,500 lbs of sodium cyanide, and an unspecified quantity of hydrochloric acid and other chemicals. A removal action was completed by USEPA during 9/12-10/10/2012.

A Phase II ESA for the property was completed by AECOM in July 2013, using contractor services provided through the WDNR funding from the WAM Program. The scope of work included advancement of 12 borings to depths of 15 feet. collection and analysis of 26 soil samples, installation of 12 temporary wells, collection and analysis of eight lead based paint samples, collection of 3 PCB wipe samples, collection of 2 concrete floor samples, collection and analysis of 12 groundwater samples.

Based on sampling performed in July 2013 by AECOM on behalf of the WDNR, an elevated total cadmium concentration was detected in one building material sample, CON-2. AECOM concluded the following regarding the cadmium concentration:

" ... the cadmium concentrations could theoretically exceed a Toxicity Characteristic Leaching Procedure (TCLP) limit listed in NR 661, Table 2 Maximum Concentration of Contaminants for TCLP (adjusted for the 20-fold dilution used in the TCLP analysis. Additional evaluation of the plating room floor during demolition/renovation of the site building is recommended to determine appropriate handling/disposal methods for the stained/corroded areas, based on the potential for cadmium concentrations to be characteristically hazardous."

AECOM collected the sample for purposes of waste characterization to evaluate if special handling would be required as part of building demolition or renovation. The surrounding soil borings and temporary well locations include: TW8, SB10/TW19, SB5, and TW9. If cadmium or other contamination were to have leached beyond the concrete layer into the subsurface, these soil samples and groundwater samples from nearby soil borings and temporary wells would have detected elevated concentrations of contaminants and delineated the potential release. These constituents were not detected in these surrounding samples.

Stantec completed a supplemental site investigation on behalf of Washington County on July 29, 2016 utilizing USEPA funds from the Fiscal Year 2014 Coalition Assessment Grant awarded to the County and its coalition partners. As a part of the 2016 supplemental site investigation, ten soil borings were advanced on the Property, field-screened for the presence of volatile organic compounds (VOCs), and soil samples were submitted for laboratory analysis for metals (arsenic, lead and nickel), cyanide, PAHs and VOCs using USEPA methods 6010C, 9012A, 8270D and 8260C, respectively. Seven temporary wells were also installed, and groundwater samples were collected and submitted for laboratory analysis for metals (arsenic, lead and nickel), cyanide, PAHs and VOCs using USEPA methods 6010C, 9012A, 8270D and 8260B, respectively.

02-67-561163 BRRTS No. NIPHOS COATINGS INC (FORMER)

Activity (Site) Name

Page 3 of 18

Cyanide and nickel concentrations in soil were found to exceed their respective groundwater protection residual contaminant levels (RCLs). The measured cyanide and dissolved nickel concentrations in groundwater samples taken on the site, however, were all below laboratory detection limits and/or below applicable Wisconsin Administrative Code (WAC) NR 140 Groundwater Quality Standards. Arsenic and lead were found at concentrations exceeding one or more applicable soil and/or groundwater standard, and above soil standards for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Apart from boring SB6/TW15 (located north of the main entrance to the residence at 310 Oak Street) and soil samples CE and SS-2 (in the area of the former porch which has since been excavated), all locations where one or more constituents in soil samples exceeding direct contact RCLs were covered by a asphalt/concrete or soil/grass cap.

Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP) surveys performed by NorthStar Environmental Testing, LLC on February 22, 2016 as a part of the supplemental site investigation identified asbestos and lead-based paint in areas of both buildings on the Property. Future Property use has not been determined. If the building is renovated, the residual metals (e.g. cadmium) detected in one concrete sample will be addressed as part of abatement/management of lead-based paint, asbestos and other hazardous building materials. If the building is redeveloped or razed, the materials will be appropriately characterized for proper disposition. The buildings are currently locked to restrict access.

Based on a telephone discussion between the WDNR and Stantec on October 15, 2019, regarding the initial closure request for the Property, the WDNR requested additional evaluation of underground utilities and pits to assess the potential for preferential migration of contaminants within utility backfill and/or groundwater in sand and gravel, which underlies silty clay and sandy clay at the Property. A private utility locate was conducted on November 7, 2019 where lateral piping assocaited with the trench floor drains in both the garage addition and former plating room could not be located. Although, in previous reports, the trench drains and drains int the pits were filled with concrete and the floor, trench drains, and pits were pressure wasted by the EPA at the time of the removal action at the site. No outlet piping was visible. The garage addition trench appeared to be tied to the sanitary sewer on the west side of the building, and the trench drain in the former plating room appears to be tied to the pits, which included treatment equipment with outfall to the sanitary sewer located on the north side of the building. In general, the utilities appear to be located in fine grained clay and sandy clay materials and above the water table depth. The site monitoring wells are generally completed across the underlying sand and gravel unit. Samples were generally collected within several feet to 10 feet laterally of features of environmental concern, including utilities. No evidence of migration within site utilities/backfill is apparent.

On March 5, 2020, the WDNR reviewed the Case Closure packet under Ch. NR 726 WAC for the Property. A letter was received by Washington County from the WDNR on April 2, 2020 requesting additional groundwater monitoring to confirm previous results and to establish compliance with Case Closure criteria of Ch. NR 726 WAC, particularly TW-6 through TW-19. The samples were to be analyzed for VOCs and dissolved RCRA metals. Toluene was detected in the three of the fourteen groundwater samples that were submitted to the laboratory, but all concentrations were below the NR 140 PAL. Based on the results of groundwater monitoring, the extent of dissolved arsenic in groundwater at concentrations at or above the NR 140 ES has decreased in area/volume since the previous sampling event in 2016, and is limited in extent to the southeast portion of the Property. Dissolved lead concentrations are no longer present at concentrations above the NR 140 PAL. Additionally, areas where concentrations of arsenic were above the NR 140 ES (TW-14 and TW-13R) are 10 ppb and 11 ppb, respectively. Dissolved arsenic concentrations above the NR 140 ES during the 2016 sampling event ranged between 10.6 and 27.6 ppb. The well downgradient from the NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES (during the 2020 sampling event). This reduction in maximum dissolved arsenic concentrations indicates that the groundwater is naturally attenuating and concentrations of arsenic are expected to continue to decreased below the NR 140 ES within a reasonable amount of time. As such, no further monitoring appears to be warranted.

A reminder letter was submitted to Washington County on August 17, 2020 for the evaluation of emerging contaminants in site investigation work at the Property. PFAS and perfluorooctanesulfonic acid (PFOS) in particular, were used as surfactants to reduce the surface tension of the electrolyte solution (reduce bubbles) and suppress air emissions of toxic metal fumes during plating processes. According to available historical records and analytical data, electroless nickel plating was the primary focus of this small plating operation between 1982 and 2010 on the Property. It is unknown if the detected metals on the Property are a result of a release of plating solutions or some other source. It is likely that any PFAS releases would either be associated with spills of solutions/wastewater to the subsurface or atmospheric deposition. The spatial distribution of heavy metals impacts in soil is not consistent with known trench drains/wastewater treatment locations (i.e. unlikely a result of a spill) and the impacts are below asphalt/concrete (i.e. unlikely atmospheric deposition). Given the limited nature of metal contamination and the limited capacity of historical operations, further investigation for the presence of PFAS does not appear warranted. The WDNR concurred with this assessment via email on March 11, 2021.

E. Describe the type(s) and source(s) or suspected source(s) of contamination. Based on the Phase II ESA completed by AECOM in July 2013 and additional work conducted by Stantec between 2016 and 2020, soil and groundwater contamination attributed to historic use of the site were identified. Soil and groundwater contamination consisted of PAHs and metals.

- F. Other relevant site description information (or enter Not Applicable). Not applicable
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases. 07-67-560412 NIPHOS COATINGS INC (FMR): Wisconsin Assessment Monies (WAM) contractor service grant was awarded on May 8, 2013, a Phase I ESA was submitted on June 25, 2013, and WCS-026B was awarded on September 4, 2013.
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property. Not Applicable; no other BRRTS activities/sites are located adjacent to the Property.

2. General Site Conditions

A. Soil/Geology

i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.

In general soils at the site consisted of silty clay with some sand to approximately 6 feet below grade, which was generally underlain by medium to coarse grained sand followed by coarse grained sand and gravel to approximately 16 feet below grade. (The maximum depth encountered during this investigation).

- ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site. Fill was not encountered during the investigations.
- iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation. Bedrock was not encountered during the investigations.
- iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).

An asphalt parking lot and driveway make up most of the southwest portion of the property. The plating building and a residential home cover majority of the remaining site area. Small areas of grass and trees exist on the western corner of the plating building, behind the southern wall of the plating building and in front of the residential building along the northwestern wall.

- B. Groundwater
 - i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Groundwater elevations were collected from Stantec's temporary groundwater monitoring wells on June 11, 2020. In general groundwater was encountered within the sand and gravel layer between 1032.19 and 1032.60 ft amsl in each well sampled during this event (9.81 and 10.51 ft bgs). Free product was not encountered in any of the temporary groundwater monitoring wells.

ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

Groundwater flow was measured using Stantec's temporary groundwater monitoring wells on June 11, 2020. Flow direction was to the south.

iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Given the smaller diameter of the NR 141 temporary monitoring wells, groundwater flow characteristics were unable to be obtained during this investigation. Information related to hydraulic conductivity, flow rate and permeability was not obtained.

According to NR 141, temporary monitoring wells may be installed according to less stringent standards than specified for permanent groundwater monitoring wells. Any temporary monitoring well construction shall be approved by the department prior to its installation. The AECOM 2013 Phase II ESA was conducted in accordance with a QAPP which was prepared for the project and approved by the WDNR and EPA prior to the work being done.

iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).
 Stantec contacted the Village of Slinger Utility Superintendent (Greg Moser) to inquire about the relative distance of municipal wells in relation to the site. Mr. Moser indicated that the three municipal wells that service the Village of Slinger are located a minimum of 1,650 feet from the site. In addition based on the Village of Slinger's Water Utility Service Territory Map it appears that municipal water is utilized within a minimum of 3,000 feet of the site.

NIPHOS COATINGS INC (FORMER) Activity (Site) Name

3. Site Investigation Summary

A. General

i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

Previous site investigations conducted at the site include:

Phase I ESA Former Niphos Coatings Property (AECOM, 2013)

Phase II ESA Former Niphos Coatings Property (AECOM, 2013) - This assessment was performed on behalf of the WDNR under the W AM Contractor Services A ward Program to assess RECs identified in the Phase I ESA report prepared by AECOM in 2013. The assessment documented areas of arsenic, lead, cyanide, and PAH impacts in soil beneath the building. In addition metals were identified within groundwater samples collected beneath the building.

Stantec completed a supplemental site investigation of behalf of Washington County on July 29, 2016 utilizing USEPA funds from the Fiscal Year 2014 Coalition Assessment Grant awarded to the County and its coalition partners. As a part of the 2016 supplemental site investigation, ten soil borings were advanced on the Property, field-screened for the presence of volatile organic compounds (VOCs), and soil samples were submitted for laboratory analysis for metals (arsenic, lead and nickel), cyanide, PAHs and VOCs using USEPA methods 6010C, 9012A, 8270D and 8260C, respectively. Seven temporary wells were also installed, and groundwater samples were collected and submitted for laboratory analysis for metals (arsenic, lead and nickel), cyanide, PAHs and VOCs using USEPA methods 6010C, 9012A, 8270D and 8260C, 9012A, 8270D and 8260B, respectively.

Cyanide and nickel concentrations in soil were found to exceed their respective groundwater protection residual contaminant levels (RCLs). The measured cyanide and dissolved nickel concentrations in groundwater samples taken on the site, however, were all below laboratory detection limits and/or below applicable WAC NR 140 Groundwater Quality Standards. Arsenic and lead were found at concentrations exceeding one or more applicable soil and/or groundwater standard, and above soil standards for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz (a,h)anthracene. Apart from boring SB6/TW15 (located north of the main entrance to the residence at 310 Oak Street) and soil samples CE and SS-2 (in the area of the former porch which has since been excavated), all locations where one or more constituents in soil samples exceeding direct contact RCLs were covered by a asphalt/concrete or soil/grass cap.

ACM and LBP surveys performed by NorthStar Environmental Testing, LLC on February 22, 2016 as a part of the supplemental site investigation identified asbestos and lead-based paint in areas of both buildings on the Property. Future Property use has not been determined. If the building is renovated, the residual metals (e.g. cadmium) detected in one concrete sample will be addressed as part of abatement/management of lead-based paint, asbestos and other hazardous building materials. If the building is redeveloped or razed, the materials will be appropriately characterized for proper disposition. The buildings are currently locked to restrict access.

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On March 5, 2020, the WDNR reviewed the Case Closure packet under Ch. NR 726 WAC for the Property. A letter was received by Washington County from the WDNR on April 2, 2020 requesting additional groundwater monitoring to confirm previous results and to establish compliance with Case Closure criteria of Ch. NR 726 WAC, particularly TW-6 through TW-19. The samples were to be analyzed for VOCs and dissolved RCRA metals. Toluene was detected in the three of the fourteen groundwater samples that were submitted to the laboratory, but all concentrations were below the NR 140 PAL. Based on the results of groundwater monitoring, the extent of dissolved arsenic in groundwater at concentrations at or above the NR 140 ES has decreased in area/volume since the previous sampling event in 2016, and is limited in extent to the southeast portion of the Property. Dissolved lead concentrations are no longer present at concentrations above the NR 140 PAL. Additionally, areas where concentrations of arsenic were above the NR 140 ES have now been reduced to the NR 140 PAL or below and the two wells with dissolved arsenic concentrations above the NR 140 PAL or below and the two wells with dissolved arsenic concentrations above the NR 140 ES (TW-14 and TW-13R) are 10 ppb and 11 ppb, respectively. Dissolved arsenic concentrations above the NR

Activity (Site) Name

Page 6 of 18

140 ES during the 2016 sampling event ranged between 10.6 and 27.6 ppb. The well downgradient from the NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES (during the 2020 sampling event). This reduction in maximum dissolved arsenic concentrations indicates that the groundwater is naturally attenuating and concentrations of arsenic are expected to continue to decreased below the NR 140 ES within a reasonable amount of time. As such, no further monitoring appears to be warranted.

A reminder letter was submitted to Washington County on August 17, 2020 for the evaluation of emerging contaminants in site investigation work at the Property. PFAS and perfluorooctanesulfonic acid (PFOS) in particular, were used as surfactants to reduce the surface tension of the electrolyte solution (reduce bubbles) and suppress air emissions of toxic metal fumes during plating processes. According to available historical records and analytical data, electroless nickel plating was the primary focus of this small plating operation between 1982 and 2010 on the Property. It is unknown if the detected metals on the Property are a result of a release of plating solutions or some other source. It is likely that any PFAS releases would either be associated with spills of solutions/wastewater to the subsurface or atmospheric deposition. The spatial distribution of heavy metals impacts in soil is not consistent with known trench drains/wastewater treatment locations (i.e. unlikely a result of a spill) and the impacts are below asphalt/concrete (i.e. unlikely atmospheric deposition). Given the limited nature of metal contamination and the limited capacity of historical operations, further investigation for the presence of PFAS does not appear warranted. The WDNR concurred with this assessment via email on March 11, 2021.

 ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts. Cyanide and nickel were detected in soil only at concentrations significantly below the non-industrial direct contact RCLs. Although concentrations of cyanide and nickel in soil exceed the groundwater protection RCLs in some samples, the concentrations in soil do not appear to represent an actual threat to groundwater quality at the Site, as the measured cyanide and dissolved nickel concentrations in groundwater samples are either below laboratory detection limits or below applicable NR 140 WAC groundwater standards.

Other contaminants are present in soil and/or groundwater at concentrations that exceed one or more applicable soil or groundwater standards. These include arsenic and lead in soil and groundwater, and benzo(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene in soil. The specific sources associated with these contaminants are undetermined but likely are associated with multiple sources during the approximate 140 year history of various industria 1 activities occurring at the Property. Soil impacts were primarily present in near surface soil (i.e., samples from 0-2 foot depth interval), with the exception of isolated occurrences of elevated concentrations of some constituents at depth (i.e., benzo(a)pyrene in sample TW5 4-6 ft; lead, nickel, and silver in sample TW7 8-9 ft; and nickel in sample B2 6-8 ft). However, with the exception of boring SB6/TW15 (located north of the main entrance to the residence at 310 Oak Street) and soil samples CE and SS-2 (in the area of the former porch which has since been excavated), all locations where one or more constituents in soil samples exceeding direct contact RCLs were covered by a asphalt/concrete or soil/grass cap. There is no identified off-site soil contamination. Dissolved lead was detected above the NR 140 PAL during the 2016 investigation, although concentrations in the groundwater are no longer present at concentrations above the NR 140 ES appear to be limited to the Property boundaries.

The occurrence of contaminants in groundwater at concentrations that exceed NR 140 WAC ES during the 2016 event appeared to be limited to dissolved arsenic in areas that include the former plating room, the garage addition, and extending slightly south of the north site building footprint. Based on the results of groundwater monitoring in 2020, the extent of dissolved arsenic in groundwater at concentrations at or above the NR 140 ES has decreased in area/volume since the previous sampling event in 2016, and is limited in extent to the southeast portion of the Property. Additionally, areas where concentrations of arsenic were above the NR 140 ES have now been reduced to the NR 140 PAL or below and the two wells with dissolved arsenic concentrations above the NR 140 ES (TW-14 and TW-13R) are 10 ppb and 11 ppb, respectively. Dissolved arsenic concentrations above the NR 140 ES during the 2016 sampling event ranged between 10.6 and 27.6 ppb. The well downgradient from the NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES (during the 2020 sampling event). This reduction in maximum dissolved arsenic concentrations indicates that the groundwater is naturally attenuating and concentrations of arsenic are expected to continue to decreased below the NR 140 ES within a reasonable amount of time. As such, no further monitoring appears to be warranted. Arsenic concentrations in groundwater exceeding a NR 140 WAC ES appear to be limited to the Property boundaries.

During the 2016 event, only very low levels of PVOCs were detected and no chlorinated VOCs were detected in soil and groundwater. VOCs were analyzed during the 2020 event as well. Toluene was the only VOC constituent detected, but only in the three of the fourteen groundwater samples that were submitted to the laboratory, but all concentrations were below the NR 140 PAL. Therefore, an evaluation of the vapor intrusion pathway (i.e. collection of soil vapor samples) was not warranted and vapor intrusion does not appear to be a concern at the Site.

The hazardous building materials survey documented the presence of various ACM or LBP in both the main and rear

Activity (Site) Name

Case Closure Form 4400-202 (R 8/16)

Page 7 of 18

buildings. Based on sampling performed in July 2013 by AECOM on behalf of the WDNR, an elevated total cadmium concentration was detected in one building material sample, CON-2. AECOM collected the sample for purposes of waste characterization to evaluate if special handling would be required as part of building demolition or renovation. Several additional metals were also detected (e.g. nickel) that do not have established TCLP limits or were at concentrations below the limits. The potential for direct contact with respect to human health (i.e. surficial wipe samples) was not evaluated. However, several soil and groundwater samples have been collected surrounding this concrete sample, see Figure 2. The surrounding soil borings and temporary well locations include: TW8, SB10/TW19, SB5, and TW9. If cadmium or other contamination were to have leached beyond the concrete layer into the subsurface, these soil samples and groundwater samples from nearby soil borings and temporary wells would have detected elevated concentrations of contaminants and delineated the potential release. These nearby sampling points did not detect such contamination. These materials will need to be considered and abated at some locations as part of future Site reuse, which may include demolition or renovation of the buildings. Additional hazardous building materials (including concrete surfaces with elevated concentrations of nickel) were identified as part of the assessment work completed in 2013 and will also need to be considered and potentially abated as part of future Site reuse.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

Structural impediments were not encountered during this investigation.

B. Soil

i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Cyanide was detected in less than half of the soil samples analyzed with concentrations significantly below the RCLs. The maximum concentration detected in samples analyzed by Stantec was 1.07 mg/kg, versus the non-industrial direct contact RCL of 27.1 mg/kg and the groundwater protection RCL of 4.04 mg/kg. Arsenic was detected in all 21 soil samples analyzed by Stantec. However, the maximum concentration detected of 7.6 mg/kg was below the arsenic BTV of 8.3 mg/kg. Similar values ranging from 1.4 to 10.8 mg/kg were recorded in the previous samples collected by AECOM in 2013.

Lead was detected in all soil samples analyzed by Stantec at concentrations ranging from 0.58 to 234 mg/kg. Some of the detections are likely attributable to naturally occurring lead in soil underlying the Site. The highest concentrations (and all samples that exceed the groundwater protection RCL of 27 mg/kg) were present within samples collected from the 0-2 feet depth interval at borings SB5, SB6, SB7, SB9, and SBIO. The source for the elevated lead concentrations is unknown, but could be associated LBP used in historic structures, which might have become concentrated in surface soil within the northeast portion of the Property as a result of a fire in 1929 that destroyed previous buildings. Regardless of the source for the lead, the maximum measured concentration of 234 mg/kg is significantly below the non-industrial direct contact RCL of 400 mg/kg. Although lead was detected in several groundwater samples, lead was not detected in the three groundwater samples collected from boring locations that included some of the highest lead concentrations in soil. This suggests that the measured lead concentrations in shallow soil does not represent a threat to groundwater quality.

Nickel (together with cyanide) is considered by Stantec to be the constituent in soil most likely to be attributable primarily to historic plating operations. Elevated nickel concentrations were in concrete samples collected from the floor of the former plating room (i.e., a nickel concentration of 36,300 mg/kg measured in sample NC-CON-2). Nickel was detected in soil at all locations sampled by Stantec, at concentrations ranging from 1.7 to 624 mg/kg. All of the measured concentrations are well below the non-industrial direct contact RCL (1,550 mg/kg). However, eight of the concentrations are equal to or greater than the groundwater protection RCL (13.1 mg/kg).

One or more PAHs were detected in all 11 soil samples analyzed by Stantec. In addition, all 18 PAHs for which analyses were performed were detected in at least one soil sample. At least five of the PAHs (benzo(a)anthracene, benzo (a)pyrene, benzo(b)fluoranthene, and/or dibenz(a,h)anthracene) were detected in one or more Stantec soil samples at concentrations that exceed non-industrial direct contact RCLs. The highest PAH concentrations (and all of the soil samples in which concentrations of one or more PAHs exceed non-industrial direct contact RCLs) were measured in the samples collected from the 0-2 foot depth interval in borings SB6, CE, and SS-2. CE and SS-2 are located in the area of the former porch that have since been excavated since a December 2018 remedial activity. SB6 is located in an unpaved area south of the south comer of the main building that has been capped with 18" of clean fill cap. The PAH concentrations measured in the samples analyzed by Stantec were significantly higher in some samples than the maximum PAH concentrations recorded in the samples analyzed by AECOM in 2013. The difference is likely

Activity (Site) Name

Page 8 of 18

attributable in part to Stantec's focus on collecting samples from the 0-2 foot depth interval that is most susceptible to historic impacts to the ground surface (petroleum spills, air pollution, or residue from the I 929 fire).

One or more VOCs were detected in 4 of the 6 soil samples analyzed by Stantec. The detected VOCs included 5 petroleum VOCs (1,2,4-trimethylbenzene, ethylbenzene, naphthalene, toluene, and total xylenes) as well as dichlorofluoromethane in 2 samples and methylene chloride in 3 samples. The methylene chloride concentrations in soil samples SB9 (10.5), SBI0 (10), and the duplicate soil sample from SB5 (0-2) exceeded the groundwater protection RCL of0.0026 mg/kg. The only VOC reported in the 26 soil samples analyzed by AECOM in 2013 was a low-level detection of toluene in one sample. The combined results from sampling by AECOM and Stantec support a conclusion that significant VOC impacts are not present in soil at the Site.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column. The degree and extent of soil contamination at the site is described and depicted within Table A.3 Residual Soil Contamination and B.2.b. Residual Soil Contamination. Based on the analytical results, various PAHs were reported at concentrations that exceeded its established RCL value for direct contact at a industrial site and soil to groundwater RCLs in borehole SB6. PAH contamination does not extend beyond approximately four fbg as evidenced by the lack of PAH contamination in all samples below this depth. Metals were reported above BTVs in boreholes SB2, SB5, SB6, SB7 and SBI0.
- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/ information in Attachment C.

The WDNR Remediation and Redevelopment spreadsheet of RCLs (December 2018 update) was used to establish soil cleanup standards for the site. "Non-Industrial land use classification RCLs were used to establish cleanup standards.

C. Groundwater

i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

VOCs are not considered constituents of concern in groundwater at the Site.

Arsenic, lead, and nickel were detected in groundwater at the Site during February 2016. The nickel concentrations did not exceed the NR 140 WAC PAL or ES in any groundwater sample collected at the Site. Cyanide was detected in 3 samples collected by AECOM in 2013, but in none of the samples collected by Stantec in February 2016. The previously detected cyanide concentrations did not exceed the NR 140 WAC PAL or ES. Dissolved lead was detected in 8 of 13 samples collected by AECOM in 2013 (at concentrations of 1.7 to 4.4 μ g/L) and in 3 of 8 samples collected by Stantec in February 2016 (at concentrations of 1.6 to 3.1 μ g/L). The lead concentrations in groundwater slightly exceeded the NR 140 WAC PAL at numerous locations, however, did not exceed the NR 140 WAC ES in any groundwater sample. The concentrations of dissolved lead were all below the PAL during the 2020 sampling event.

The concentrations of dissolved arsenic in groundwater at two locations (TW13R and TW14) are greater than the ES and concentrations of arsenic in groundwater at twelve locations (TW6, TW7, TW8, TW9, TW10, TW11, TW12, TW15, TW16, TW17, TW18, and TW19) are greater than the PAL (2020 sampling event). Based on the results of groundwater monitoring, the extent of dissolved arsenic in groundwater at concentrations at or above the NR 140 ES has decreased in area/volume since the previous sampling event in 2016, and is limited in extent to the southeast portion of the Property. Additionally, areas where concentrations of arsenic were above the NR 140 ES have now been reduced to the NR 140 PAL or below and the two wells with dissolved arsenic concentrations above the NR 140 ES (TW-14 and TW-13R) are 10 ppb and 11 ppb, respectively. Dissolved arsenic concentrations above the NR 140 ES during the 2016 sampling event ranged between 10.6 and 27.6 ppb. The well downgradient from the NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES (during the 2020 sampling event). This reduction in maximum dissolved arsenic concentrations indicates that the groundwater is naturally attenuating and concentrations of arsenic are expected to continue to decreased below the NR 140 ES within a reasonable amount of time. As such, no further monitoring appears to be warranted.

One or more PAHs were detected in all Stantec groundwater samples, but as was true for samples collected by AECOM in 2013, none of the measured concentrations equaled or exceeded an NRI 40 WAC PAL.

Based on the results, a limited area of groundwater contamination is present in the southeast portion of the Site. There are no known existing or potential impacts to water supply wells or interceptions with foundation drain systems.

 Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.
 Free product was not encountered.

D. Vapor

 Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.
 Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.

- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).
 Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.
- E. Surface Water and Sediment
 - i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

Surface water and/or sediment was not encountered during this investigation.

ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded. Surface water and/or sediment was not encountered during this investigation.

4. Remedial Actions Implemented and Residual Levels at Closure

A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

A Remedial Action Documentation Report (RADR) was submitted to the WDNR and received on July 8, 2019 (dated June 10, 2019). Stantec coordinated field remedial activities with The Reese Group, LLC (TRG). Within the RADR, three sets of remedial action implementation strategies were noted and are as follows:

May 2018 Remedial Actions were located on the west side of the entrance to the 310 Oak Street residence. North Shore Environmental Construction, Inc was subcontracted to perform the remedial excavation work. Contaminated soil was excavated to a depth of 18", and 40 yd2 of geotextile was placed across the base of the excavation before backfilling with 14" of clean soil (sourced from Lannon Stone Products, Inc). 4" of topsoil (approximately 4.5 yd3) was placed on top of the clean soil (sourced from Liesener Soils, Inc.). Sod was placed on top of the topsoil on June 2, 2018.

Intermediate Confirmation Sampling was collected east of the excavation site on August 23, 2018 (soil sample CE). A second soil sample was collected east of the excavation site on October 9, 2018 (soil sample SS-2). Both samples were analyzed for PAHs and RCRA metals. These samples indicated that residual contamination from lead, arsenic, benzo(a) pyrene, and dibenz(a,h)anthracene exceeded their respective direct contact RCLs at or near the surface in these locations prompting additional remedial activity in December 2018.

December 2018 Remedial Actions occurred on December 14, 2018. North Shore Environmental was subcontracted to excavate 18" of contaminated soil at the 310 Oak Street residence entrance. 350 ft2 of geotextile was placed across the base of the excavation before backfilling with 14" of clean soil (sourced from Lannon Stone Products, Inc). 4" of topsoil (approximately 5 yd3) was placed on top of the clean soil (sourced from Liesener Soils, Inc.). Seed and mulch were placed on December 14, 2018.

Four confirmation soil samples were taken on December 14, 2018 and analyzed for PAH aor RCRA metals (1W & 1S sampled for RCRA metals and mercury; 2W & 2S sampled for PAHs). No PAHs exceeded any standard for samples 2W & 2S. One sample (1W) that was taken at the bottom of the excavation had arsenic detected above the direct contact RCL and BTV. The other sample collected also detected arsenic above the direct contact RCL, but below the BTV. No other analytes above the non-industrial direct contact RCL were detected. Per WDNR telephone call with Alice Egan and Margaret Brunette on March 24, 2021, arsenic soil concentrations observed above the NR 700 direct contact RCLs, up to 11 mg/kg on Property, are likely attributed to background values given a lack of evidence of a release on the Site.

Existing concrete/pavement along with the clean capped areas created during the May and December 2018 remedial activities, serve to provide an engineered barrier across the Property. These engineered barriers will prevent direct contact exposure to any residual impacted soil.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code. A removal action was completed by USEPA in response to an inspection conducted by the State and Village on 8/20/2012, that resulted in a state emergency management official becoming sickened by exposure to chemical vapors in the property and receiving treatment at a hospital. At the time of the inspection, the building was estimated to contain: 750 lbs of copper

Activity (Site) Name

Page 10 of 18

cyanide, 27,598 lbs of nickel sulfate, 4,198 lbs of nitric acid, 3,500 lbs of sodium cyanide, and an unspecified quantity of hydrochloric acid and other chemicals. The removal action was completed by USEPA during 9/12-10/10/2012.

Source contaminated soil to a depth of 18-inches was removed from the Site. Approximately 6.59 tons of construction and demolition materials and 12.77 tons of contaminated soil were removed in May 2018. Approximately 1.39 tons of construction and demolition materials and 30.47 tons of contaminated soil were removed from the site in December 2018. Mirafi(r) 500X high-tenacity polypropylene geotextile was placed across the base of the excavated areas prior to excavations being backfilled with 14-inches of clean soil followed by 4 inches of topsoil. The remaining contaminated soil is capped by asphalt/concrete. Additionally, the trench drains and drains in the pits were filled with concrete and the floor, trench drains and pits were pressure washed by EPA at the time of the removal action at the site.

C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

Other than the remedial actions noted above, additional active remedial actions have not been taking at the source property.

D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.
 After evaluation of risks to human health and the environment posed by residual contamination at the site, capping of residual soil contamination was determined to be the best overall approach for the site. The chosen remedial action

minimized total energy and water use and generated the least air pollutants as compared to alternative remedial options. The chosen remedial action (capping) represents a sustainable remedial action per NR 722.09 (2M).

E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.

The degree and extent of soil contamination at the site is depicted on the B.2.b. Residual Soil Contamination Map included in Attachment B.

F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact. Source contaminated soil, to a depth of 18-inches below ground surface, was removed from the Site. Approximately 6.59 tons of construction and demolition materials and 12.77 tons of contaminated soil were removed in May 2018. Approximately 1.39 tons of construction and demolition materials and 30.47 tons of contaminated soil were removed from the site in December 2018. Mirafi(r) 500X high-tenacity polypropylene geotextile was placed across the base of the excavated areas prior to excavations being backfilled with 14-inches of clean soil followed by 4 inches of topsoil. The remaining contaminated soil is capped by asphalt/concrete.

The degree and extent of soil contamination at the site is depicted on the B.2.b. Residual Soil Contamination Map included in Attachment B.

G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

Groundwater elevation measurements collected from the temporary wells documented the water table between 9.81 and 10.51 ft bgs. Source contaminated soil, to a depth of 18-inches below ground surface, was removed from the Site. Contaminated soil remaining on-site has been capped by, clean soil or concrete/asphalt. The degree and extent of soil contamination at the site is depicted on the B.2.b. Residual Soil Contamination Map included in Attachment B.

H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

A clean soil cap or a concrete/pavement cap are located over soil exceeding the WDNR direct contact RCLs.

The current barrier consists of approximately 470 ft2 of concrete/asphalt parking lot/driveway and the former remedial excavation areas which has been capped, 300ft2 of a grassed area surrounding SB6/TW15; which totals to 770 ft2 (0.018 acres) of the 0.32 acre site.

1. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume). Arsenic, lead, and nickel were detected in groundwater at the Site during February 2016. The nickel concentrations did not exceed the NR 140 WAC PAL or ES in any groundwater sample collected at the Site. Cyanide was detected in 3 samples collected by AECOM in 2013, but in none of the samples collected by Stantec in February 2016. The previously detected cyanide concentrations did not exceed the NR 140 WAC PAL or ES. Dissolved lead was detected in 8 of 13 samples collected by AECOM in 2013 (at concentrations of 1.7 to 4.4 μ g/L) and in 3 of 8 samples collected by Stantec in February 2016 (at concentrations of 1.6 to 3.1 μ g/L). The lead concentrations in groundwater slightly exceeded the NR 140 WAC PAL at numerous locations, however, did not exceed the NR 140 WAC ES in any groundwater sample. None of the groundwater samples detected dissolved lead above the PAL during the 2020 sampling event. The results suggest a reduction in dissolved lead concentrations may have occurred, due to natural attenuation.

02-67-561163 BRRTS No. NIPHOS COATINGS INC (FORMER)

Activity (Site) Name

Page 11 of 18

An apparent reduction in arsenic concentrations was also observed in the data, which in 2013, was detected in 12 of 13 samples at concentrations of 5.7 to 27.6 μ g/L, but at concentrations of 2.0 to 14.9 μ g/L in the 8 samples analyzed in February 2016. By the June 2020 sampling event, only two wells had arsenic concentrations barely above the ES, detected at 10 and 11 ppb (at TW14 and TW13R, respectively). Based on the results of groundwater monitoring, the extent of dissolved arsenic in groundwater at concentrations at or above the NR 140 ES has decreased in area/volume since the previous sampling event in 2016, and is limited in extent to the southeast portion of the Property. The well downgradient from the June 2020 NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES. This reduction in maximum dissolved arsenic concentrations indicates that the groundwater is naturally attenuating and concentrations of arsenic are expected to continue to decreased below the NR 140 ES within a reasonable amount of time. As such, no further monitoring appears to be warranted.

J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).

Residual soil and groundwater were addressed by source soil excavation, and the installation and continuing maintenance obligations of a soil/pavement/concrete cap.

- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain. A system was not constructed during this investigation.
- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances. The occurrence of contaminants in groundwater at concentrations that slightly exceed NR 140 WAC ES appears to be limited to dissolved arsenic on the southeast portion of the Property. The well downgradient from the June 2020 NR 140 ES plume, TW-12, had dissolved arsenic below the NR 140 ES. Arsenic concentrations in groundwater exceeding a NR 140 WAC ES appear to be limited to the Property boundaries and there appears to have been a decrease in concentrations since the previous sampling event in 2013, due to natural attenuation. A requirement for maintenance of the soil cap and/or asphalt/concrete as an engineered barrier over areas with documented near surface soil contamination at concentrations that exceed the non-industrial direct contact RCLs should be required.
- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
 Due to the type of residual contamination (PAH contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.
- N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed. Surface water and/or sediment was not encountered at the site.

02-67-561163	3
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BRRTS No.

Activity (Site) Name

Case Closure

Form 4400-202 (R 8/16)

Continuing Obligations: Includes all affected properties and rights-of-way (ROWs). In certain situations, maintenance plans are also required, and must be included in Attachment D. Directions: For each of the 3 property types below, check all situations that apply to this closure request. 5.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

	This situation property o	n applies to t r Right of Wa	he following y (ROW):		
	Property Typ	e:		Case Closure Situation - Continuing Obligation (database fees will apply, ii xiv.)	Maintenance Plan
	Source Property	Affected Property (Off-Source)	ROW		Required
i.		\boxtimes	\boxtimes	None of the following situations apply to this case closure request.	NA
ii.	\boxtimes			Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	\boxtimes			Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
				Not Abandoned (filled and sealed)	NA
				Continued Monitoring (requested or required)	Yes
v.	\boxtimes			Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	\boxtimes			Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.				Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.				Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.			NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
х.			NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.			NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii			NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.				Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.				Site-specific situation: (e.g., fencing, methane monitoring, other) (<i>discuss</i> with project manager before submitting the closure request)	Site specific

Underground Storage Tanks 6.

A.	Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action?	⊖ Yes) No
В.	Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property?	⊖ Yes	No

C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored?

⊖Yes ⊖No

Activity (Site) Name

Page 13 of 18

General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)

Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
 Include the units on data tables.
- Summaries of all data <u>must</u> include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.
- A.2. Soil Analytical Results Table(s): Table(s) showing all soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).
- A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.
- A.4. **Vapor Analytical Table(s)**: Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.5. Other Media of Concern (e.g., sediment or surface water): Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.
- A.6. Water Level Elevations: Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include <u>all</u> sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.
 - B.1. Location Maps
 - B.1.a. Location Map: A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
 - B.1.b. Detailed Site Map: A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.
 - B.1.c. RR Sites Map: From RR Sites Map (http://dnrmaps.wi.gov/sl/?Viewer=RR Sites) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

Page 14 of 18

B.2. Soil Figures

- B.2.a. **Soil Contamination:** Figure(s) showing the location of <u>all</u> identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).
- B.2.b. Residual Soil Contamination: Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedence (0-4 foot depth).
 Croundwater Figures

B.3. Groundwater Figures

- B.3.a. Geologic Cross-Section Figure(s): One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
 - Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between
 direct contact and the groundwater pathway RCLs.
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
 - Surface features, including buildings and basements, and show surface elevation changes.
 - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
 - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

- B.4.a. Vapor Intrusion Map: Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. Other media of concern (e.g., sediment or surface water): Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
 B.4.c. Other: Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).
- B.5. Structural Impediment Photos: One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)

Directions for Documentation of Remedial Action:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that
 particular document requested.
 - C.1. Site investigation documentation, that has not otherwise been submitted with the Site Investigation Report.
 - C.2. Investigative waste disposal documentation.
 - C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.
 - C.4. Construction documentation or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
 - C.5. Decommissioning of Remedial Systems. Include plans to properly abandon any systems or equipment.
 - C.6. Other. Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)

Directions for Maintenance Plans and Photographs:

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3

- D.1. Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:
 - Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained. .
- Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor • mitigation system, feature or other action for which maintenance is required.
- Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.2. Location map(s) which show(s): (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.
- D.3. Photographs for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.
- Inspection log, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The D.4. inspection and maintenance log is found at: http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

○ No monitoring wells were installed as part of this response action.

(e) All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site

Select One or More:

- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
 - One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

Deed: The most recent deed with legal description clearly listed. F.1.

Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

- Certified Survey Map: A copy of the certified survey map or the relevant section of the recorded plat map for those F.2. properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- Verification of Zoning: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' F.3. current zoning status.
- F.4. Signed Statement: A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

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Activity (Site) Name

Case Closure Form 4400-202 (R 8/16)

Notifications to Owners of Affected Properties (Attachment G)

Directions for Notifications to Owners of Affected Properties:

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39,Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation.

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- Deed: The most recent deed with legal descriptions clearly listed for all affected properties.
 Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land
 contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited,
 written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map: A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- Verification of Zoning: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- Signed Statement: A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

02-67-561163 BRRTS No.

NIPHOS COATINGS INC (FORMER) Activity (Site) Name

Case Closure Form 4400-202 (R 8/16)

Page 17 of 18

Notifications to Owners of Affected Properties (Attachment G)

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02-67-561163 BRRTS No.	NIPHOS COATINGS INC (FORMER) Activity (Site) Name	Case Closure Form 4400-202 (R 8/16)	Pa
Signatures and Fi	ndings for Closure Determination		
This page has beer	n updated as of February 2019 to comply with the requireme	nts of Wis. Admin. Code ch. NR 712.	
Check the correct b	ox for this case closure request and complete the correspor	nding certification statement(s) listed below	v to

demonstrate that the requirements of Wis. Admin. Code ch. NR 712 have been met. The responsibility for signing the certification may not be delegated per Wis. Admin. Code § NR 712.09 (1). Per Wis. Admin. Code § 712.05 (1), the work must be conducted or supervised by the person certifying.

() The investigation and/or response action(s) for this site evaluated and/or addressed groundwater (including natural attenuation remedies). Both a professional engineer and a hydrogeologist must sign this document per Wis. Admin. Code ch. NR 712.

The investigation and the response action(s) for this site did not evaluate or address groundwater. A professional engineer must sign this document per Wis. Admin. Code ch. NR 712.

Engineering Certification

Hiedi Waller, PE , hereby certify that I am a registered professional engineer in the ١, State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature	Hiedi Ann Waller	P. E. #	SCONSIN
Title	Senior Engineer	P.E. Stamp	HEDIA WALLER E-SS741 OTTWO-RETTON

Hydrogeologist Certification

Erin Gross, PG

١, , hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature

Cain Scoss

Title Staff Geologist



Date

ATTACHMENT A

DATA TABLES

Table of Contents

Title	Status	Explanation (if applicable)
A.1 Groundwater Analytical Tables	Attached	Note – units of measure are in micrograms per liter (μg/L)
A.2 Soil Analytical Results Tables	Attached	Note – units of measure are in milligrams per kilogram (mg/kg) for metals and VOCs and in micrograms per kilogram (µg/kg) for PAHs
A.3 Residual Soil Contamination Tables	Attached	Note – units of measure are in milligrams per kilogram (mg/kg) for metals and in micrograms per kilogram (µg/kg) for PAHs
A.4 Vapor Analytical Tables	Attached	AECOM sampled indoor air for VOCs during their 2013 investigation. Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.
A.5 Other Media of Concern	Attached	AECOM sampled the concrete in the former plating area for metals and for lead-based paint during their 2013 investigation.
A.6 Water Level Elevations	Attached	Water elevations are from the June 2020 investigation where depth to water and top of casing surveys were measured on temporary wells TW6 through TW19. Wells that were replaced during this investigation are noted with a "R" (ex. TW17R).
A.7 Other	Not applicable	No other data or information relevant to case closure was associated with this case.

ATTACHMENT A.1

GROUNDWATER ANALYTICAL TABLES

Note – units of measure are in micrograms per liter (μ g/L)

	Dissolved Metals PAHs											VC	OCs													
1000010000			Cyanide	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	1-Methyl'phthalene	2-Methyl'phthalene	Ace'phthene	Anthracene	Benzo(a)anthracene	Benzo(g,h,i)perylene	Chrysene	Fluorene	phthalene	Phe'nthrene	Pyrene	Chloromethane	Toluene
Import Server Server Server<	NR 140, Wis. Adm	. Code PAL	40	1.0	400	0.5	10	130	1.5	0.2	20	10	10	NE	NE	NE	600	NE	NE	0.02	80	10	NE	50	3	160
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M14 M16 G10 G10 <td>TW-13R</td> <td>6/10/2020</td> <td></td> <td>11</td> <td>89</td> <td><0.17</td> <td><1.1</td> <td></td> <td><0.19</td> <td><0.098</td> <td></td> <td>2.0 J</td> <td><0.12</td> <td></td> <td><0.32</td> <td><0.15</td>	TW-13R	6/10/2020		11	89	<0.17	<1.1		<0.19	<0.098		2.0 J	<0.12												<0.32	<0.15
field for field	T) A / 1 /	2/24/2016	<6.0	2.0					1.6		<1.2			0.0052	0.0047	<0.0020	<0.0070	<0.0040	< 0.0070	<0.0060	< 0.0030	0.0092	<0.0070	<0.0060		'
Mark Mark <t< td=""><td>10014</td><td>6/10.20</td><td></td><td>10</td><td>89</td><td><0.17</td><td><1.1</td><td></td><td><0.19</td><td><0.098</td><td></td><td>3.1</td><td><0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><0.32</td><td><0.15</td></t<>	10014	6/10.20		10	89	<0.17	<1.1		<0.19	<0.098		3.1	<0.12												<0.32	<0.15
Here 1 <td>TW15</td> <td>2/24/2016</td> <td><6.0</td> <td>2.6</td> <td></td> <td></td> <td></td> <td></td> <td><1.5</td> <td></td> <td>1.9</td> <td></td> <td></td> <td><0.0030</td> <td>0.0040</td> <td><0.0020</td> <td>0.0088</td> <td>0.0057</td> <td><0.0070</td> <td>0.0068</td> <td>< 0.0030</td> <td>0.0080</td> <td>0.0080</td> <td>0.0079</td> <td></td> <td>'</td>	TW15	2/24/2016	<6.0	2.6					<1.5		1.9			<0.0030	0.0040	<0.0020	0.0088	0.0057	<0.0070	0.0068	< 0.0030	0.0080	0.0080	0.0079		'
Image: Mode model with	TW-15R	6/10/2020		1.9	110	<0.17	<1.1		<0.19	<0.098		1.2 J	<0.12												<0.32	<0.15
6/10/200 6.7 6.4 7.3 6.1 6.1 6.1 6.0 6.1 6.0 6.0 <	TW16		<6.0								<1.2			0.013	0.012	0.0037	<0.0070	0.0051	<0.0070	<0.0060	<0.0030	0.023	0.011	0.0065		
Merry Matrix Metry Matrix<												-														
MAR 2/24/2016 4.60 14.9 4.70 4.70 4.70 4.80 4.80 4.70 4.000																										
Duplicate (M) 2/24/2016 6.40 147 6.40 6.40 147 6.40 6.4												-								-						
TW18 6/10/200	}																									
1/100 2/24/2016 6.0 2.9 <1.5 <1.2 <0.003 <0.003 <0.007 <0.007 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.																										
TW19	1																									
	TW19																									

Notes:

Only PAHs and VOCs detected in at least one groundwater sample are shown on this table. 2013 samples were collected by AECOM, a'--lyzed by Pace A'--lytical using EPA methods 6010 (metals); 7410 (mercury), 8260 (VOCs), 8270/3510 (PAHs), and 9012 (cyanide).

2016 samples were collected by Stantec and a --lyzed by CT Laboratories using EPA methods 6010C (lead and nickel); 7010 (arsenic), 8260 (VOCs), 8270D-SIM (PAHs), and 9012AC (cyanide). <xxx = compound not detected at a detection limit of xxx

--- = indicates that no a'--lysis was performed for this constituent in this groundwater sample XXX = exceeds NR 140, Wis. Adm. Code prevention action limit (PAL)

XXX = exceeds NR 140, Wis. Adm. Code enforcement standard (ES)

NE = not established by Wisconsin Administrative Code (Wis. Adm. Code)

PAHs = polynuclear aromatic hydrocarbons VOCs = volatile organic compounds NR 140, Wis. Adm. Code ES and PAL values are published under s. 35.93, dated January 2020

J = analyte was detected between the limit of detection and limit of quantification

ATTACHMENT A.2

SOIL ANALYTICAL RESULTS TABLES

Note – units of measure are in milligrams per kilogram (mg/kg) for metals and VOCs and in micrograms per kilogram (μ g/kg) for PAHs

Table A.2 AECOM Summary of Detected Soil Analytes Former Niphos Coatings

		Generic RCLs		NC-SS-TW1 (2-3) 7/18/2013	NC-SS-TW1 (5-6) 7/18/2013	NC-SS-TW2 (2-4) 7/18/2013	NC-SS-TW2 (5-6) 7/18/2013	NC-SS-TW3 (2-3) 7/18/2013	NC-SS-TW3 (5-6) 7/18/2013	NC-SS-TW4 (1-3) 7/18/2013	NC-SS-TW4 (5-7) 7/18/2013	NC-SS-TW4 (DUP) (5-7) 7/18/2013	NC-SS-TW5 (4-6) 7/18/2013	NC-SS-TW5 (10-12)	NC-SS-TW6 (1-3) 7/18/2013	NC-SS-TW6 (DUP) (1-3) 7/18/2013
	Non-Industrial ^A	Industrial ^B	Groundwater											7/18/2013		
Parameters			Pathway ^c													
Metals (mg/kg) Arsenic (8)	0.677	3	0.584	3.7 авс	3.4 ABC	3.2 ABC	4.2 ABC	5.2 ABC	4.7 ABC	5.7 ABC	2.5 ABC	2.5 c	2.2 c	2.6 c	9.9 c	8.1 ABC
Barium (364)	15,300	100,000	164.8	69.8	28.2	113	114	124	57.1	99.6	41.9	122	36.8	15.3	157	86.2
Cadmium (1)	71.1	985	0.752	0.28 J	0.18 J	0.44 J	0.31 J	0.21 J	0.19 J	0.28 J	0.26 J	0.37 J	0.24 J	0.17 J	0.33 J	0.29 J
Chromium (44)	100,000	100,000	360,000	13.9	12.7	18.7	20.1	22.4	15.5	21.5	11.4	16.6	9.4	11	30.7	23.9
Copper (35)	3,130	46,700	91.6	23.1	11	37.9	31.1	19.9	11.4	24.5	25.5	28.9	10	10.3	27.6	21.2
Lead (52)	400	800	27	17.7	4.2	30.4 °	26.5	12.5	5.7	20.8	30.1 °	49.9 °	18.6	19.9	14.4	15.8
Nickel (31)	1,550	22,500	13.0612	13 ^C	8.7	14.7 °	14.8 °	12.8	11.2	18.3 °	10.3	18.1 °	7.5	7.4	40.8 °	16.2 °
Selenium	391	5,840	0.52	< 0.60	<0.59	0.96 J °	<0.65	<0.66	<0.66	<0.64	<0.59	<0.66	< 0.64	<0.70	<1.3	< 0.64
Silver	391 3.13	5,840 3.13	0.8491 0.208	<0.22 0.023	<0.21 0.051	<0.26 0.06	<0.23 0.075	<0.24 0.023	<0.24 0.0089	<0.23 0.033	<0.21 0.011	<0.24 0.017	<0.23 0.014	<0.25 <0.0037	<0.47 0.055	<0.23 0.035
Mercury Cyanide	27.1	195	4.04	<0.10	<0.16	<0.22	<0.14	<0.13	<0.17	<0.17	<0.14	<0.18	<0.18	<0.0037	<0.23	<0.16
				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (µg/kg)					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PAHs (µg/kg)																
Acenaphthene	3,590,000	45,200,000		<9.8	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Acenaphthylene				<9.8	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Anthracene Benzo(a)anthracene	17,900,000 1140	100,000,000 20,800.0	196,949.2	22.3 54.5	NA NA	<10.5 <10.5	NA	<10.3	NA NA	<10.2	NA NA	NA NA	<9.4 31.4	NA NA	<10.4 <10.4	<9.9 <9.9
Benzo(a)anthracene	1140	20,800.0	470	54.5 68.2	NA	<10.5 <3.7	NA NA	<10.3 <3.7	NA	<10.2 6.9 J	NA	NA	31.4 28.7	NA	<10.4 <3.7	<9.9
Benzo(a)pyrene Benzo(b)fluoranthene	115 1150	2110 21,100	470 478.1	68.2 63.2	NA NA	<3.7 <10.5	NA NA	<3.7 <10.3	NA NA	6.9 J <10.2	NA NA	NA NA	28.7	NA NA	<3.7 <10.4	<3.5 <9.9
Benzo(ghi)perylene				130	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	25.8	NA	<10.4	<9.9
Benzo(k)fluoranthene	11,500	211,000		54	NA	5.3 J	NA	<3.6	NA	7.3 J	NA	NA	6.6 J	NA	<3.7	<3.5
Chrysene	115,000	2,110,000	144.2	69	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	44.7	NA	<10.4	<9.9
Dibenz(a,h,)anthracene	115	2110		18.1 J	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Fluroanthene	2,390,000	30,100,000	88,877.8	112	NA	10.9 J	NA	<10.3	NA	22.7	NA	NA	<9.4	NA	<10.4	<9.9
Fluorene	2,390,000	30,100,000	14,829.9	<9.8	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Indeno(1,2,3-cd)pyrene	1150	21,100		41.4	NA	<10.5	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
1-Methylnaphthalene	17,600	72,700		<3.5	NA	10.9 J	NA	<3.6	NA	<3.6	NA	NA	<3.3	NA	<3.7	<3.5
2-Methylnaphthalene	239,000	3,010,000		<9.8	NA	16.6 J	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Naphthalene	5,520	24,100	658.2	<9.8	NA	16.8 J	NA	<10.3	NA	<10.2	NA	NA	<9.4	NA	<10.4	<9.9
Phenanthrene	-			61.7	NA	14.4 J	NA	<10.3	NA	24.8	NA	NA	20.4	NA	<10.4	<9.9
Pyrene	1,790,000	22,600,000	54,545.5	104	NA	<10.5	NA	<10.3	NA	19.6 J	NA	NA	98.2	NA	<10.4	<9.9
		Generic RCLs		NC-SS-TW6	NC-SS-TW7 (8-9) 7/18/2013	NC-SS-TW7 (11-12) 7/18/2013	NC-SS-TW8 (2-4) 7/18/2013	NC-SS-TW8 (5-6) 7/18/2013	NC-SS-TW9 (1-3) 7/18/2013	NC-SS-TW9 (6-7) 7/18/2013	NC-SS-TW10 (3-4) 7/18/2013	NC-SS-TW10 (5-6) 7/18/2013	NC-SS-TW11 (1-4) 7/18/2013	NC-SS-TW11 (6-7) 7/18/2013	NC-SS-TW12 (3-4) 7/18/2013	NC-SS-TW12 (5-6) 7/18/2013
	Non-Industrial A	Industrial ^B	Groundwater	(5-7)												
Parameters			Pathway ^C	7/18/2013												
Metals (mg/kg) Arsenic (8)			1		ARC	ARC										
	0.677	3	0.584	3.9 J ^{ABC}	3.5 J ^{ABC}	1.4 J ^{ABC}	3.4 ABC	4.2 ABC	10.8 ABC	4 авс	5.5 ABC	3.5 ABC	3.1 ABC	2.1 AC	3.1 авс	4.5 ABC
Barium (364) Cadmium (1)	15,300 71.1	100,000 985	165 0.752	17.2 0.17 J	46.2 0.72	9.6 0.16 J	104 0.15 J	58.7 0.28 J	191 ^C 0.39 J	30.6 0.36 J	90.5 0.3 J	45.3 0.16 J	54.7 0.17 J	24.5 0.67	75.4 0.32 J	11.6 0.17 J
Chromium (44)	100,000	100,000	360,000	7.6	9.2	0.16 J 6	20.4	0.28 J 10.3	33.8	11.6	24.1	12.6	0.17 J 11.5	8.5	0.32 J 11.7	6.8
Copper (35)	3,130	46,700	91.6	13.4	<u>9.2</u> <u>62.2</u>	8.4	11.8	13.1	26.5	12	29.2	11.2	8.2	7.6	74.3	8.8
Lead (52)	400	800	27	4.5	39.6 °	4.3	7.4	4	11.9	5.1	17.3	4.4	2	3	76.7 °	4.5
Nickel (31)	1.550	22,500	13	5.9	50.2 °	5.1	13.2 °	14.8 °	84.2 °	231 ^C	18.8 °	7.1	11.3	10.9	8.9	6.3
Selenium	391	5,840	0.5200	<0.63	<0.59	<0.69	<0.62	<0.64	<0.72	<0.61	<0.59	<0.67	<0.65	<0.58	<0.63	<0.56
Silver	391	5,840	0.85	<0.23	0.96 J ^C	<0.25	<0.22	<0.23	<0.26	<0.22	<0.21	<0.24	<0.23	<0.21	<0.23	<0.20
Mercury	3.13	3.13	0.208	0.0082	0.028	0.0044 J	0.028	0.008	0.067	0.012	0.044	0.013	0.032	0.0087	0.03	0.06
Cyanide	27.1	195	4.04	<0.15	0.36 J	<0.11	<0.11	<0.16	0.19 J	<0.13	<0.20	<0.13	<0.20	<0.12	<0.12	<0.16
VOCs (µg/kg)			-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs (µg/kg)																
Acenaphthene	3,590,000	45,200,000		NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	<10	NA	<9.2	NA
Acenaphthylene		-		NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	<10	NA	<9.2	NA
Anthracene	17,900,000	100,000,000	196,949.2	NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	<10	NA	<9.2	NA
Benzo(a)anthracene	1140	20,800.0		NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	23.7	NA	<9.2	NA
Benzo(a)pyrene	115	2110	470	NA	<3.1	NA	<3.5	NA	<3.9	NA	<3.4	NA	27.9	NA	<3.3	NA
Benzo(b)fluoranthene	1150	21,100	478.1	NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	28.7	NA	<9.2	NA
				NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	19.4 J	NA	<9.2	NA
Benzo(ghi)perylene		211,000		NA	<3.0	NA	<3.4	NA	<3.9	NA	<3.4	NA	26.2	NA	<3.3	NA
Benzo(ghi)perylene Benzo(k)fluoranthene	11,500			NA	<8.6	NA	<9.8	NA NA	<11 <11	NA NA	<9.6 <9.6	NA NA	30.8 <10	NA	<9.2	NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene	115,000	2,110,000	144.2		-0.0	N1A		INA INA	<11 <11	NA	<9.0	INA NA				NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene	115,000 115	2,110,000 2110		NA	<8.6	NA	< 9.8		-11	N A	-0.0			NA	<9.2	
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene Fluroanthene	115,000 115 2,390,000	2,110,000 2110 30,100,000	 88,877.8	NA NA	<8.6	NA	<9.8	NA	<11	NA	<9.6	NA	39.6	NA	<9.2	NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene Fluroanthene Fluroanthene	115,000 115 2,390,000 2,390,000	2,110,000 2110 30,100,000 30,100,000	 88,877.8 14,829.9	NA NA NA	<8.6 <8.6	NA NA	<9.8 <9.8	NA NA	<11	NA	<9.6	NA NA	39.6 <10	NA NA	<9.2 <9.2	NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene	115,000 115 2,390,000 2,390,000 1150	2,110,000 2110 30,100,000 30,100,000 21,100	 88,877.8 14,829.9 	NA NA NA NA	<8.6 <8.6 <8.6	NA NA NA	<9.8 <9.8 <9.8	NA NA NA	<11 <11	NA NA	<9.6 <9.6	NA NA NA	39.6 <10 15.6 J	NA NA NA	<9.2 <9.2 <9.2	NA NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene	115,000 115 2,390,000 2,390,000 1150 17,600	2,110,000 2110 30,100,000 30,100,000 21,100 72,700	 88,877.8 14,829.9	NA NA NA NA	<8.6 <8.6 <8.6 <3.1	NA NA NA NA	<9.8 <9.8 <9.8 <3.5	NA NA NA NA	<11 <11 <3.9	NA NA NA	<9.6 <9.6 5.8 J	NA NA NA NA	39.6 <10 15.6 J <3.5	NA NA NA NA	<9.2 <9.2 <9.2 <3.3	NA NA NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a, h,)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene	115,000 115 2,390,000 2,390,000 1150 17,600 239,000	2,110,000 2110 30,100,000 30,100,000 21,100 72,700 3,010,000	 88,877.8 14,829.9 	NA NA NA NA NA	<8.6 <8.6 <3.1 <8.6	NA NA NA NA	<9.8 <9.8 <9.8 <3.5 <9.8	NA NA NA NA NA	<11 <11 <3.9 <11	NA NA NA NA	<9.6 <9.6 5.8 J <9.6	NA NA NA NA	39.6 <10 15.6 J <3.5 <10	NA NA NA NA	<9.2 <9.2 <9.2 <3.3 <9.2	NA NA NA NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a, h,)anthracene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene	115,000 115 2,390,000 2,390,000 1150 17,600	2,110,000 2110 30,100,000 30,100,000 21,100 72,700	 88,877.8 14,829.9 	NA NA NA NA NA NA	<8.6 <8.6 <3.1 <8.6 <8.6	NA NA NA NA NA	<9.8 <9.8 <9.8 <3.5	NA NA NA NA NA	<11 <11 <3.9 <11 <11	NA NA NA NA NA	<9.6 <9.6 5.8 J <9.6 13.4 J	NA NA NA NA NA	39.6 <10 15.6 J <3.5 <10 <10	NA NA NA NA NA	<9.2 <9.2 <9.2 <3.3	NA NA NA NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a, h,)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene	115,000 115 2,390,000 2,390,000 1150 17,600 239,000 5,520	2,110,000 2110 30,100,000 30,100,000 21,100 72,700 3,010,000 24,100	 88,877.8 14,829.9 658.2	NA NA NA NA NA	<8.6 <8.6 <3.1 <8.6	NA NA NA NA	<9.8 <9.8 <9.8 <3.5 <9.8 <9.8	NA NA NA NA NA	<11 <11 <3.9 <11	NA NA NA NA	<9.6 <9.6 5.8 J <9.6	NA NA NA NA	39.6 <10 15.6 J <3.5 <10	NA NA NA NA	<9.2 <9.2 <9.2 <3.3 <9.2 <9.2	NA NA NA NA NA
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h,)anthracene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene	115,000 115 2,390,000 2,390,000 1150 17,600 239,000 5,520 	2,110,000 2110 30,100,000 30,100,000 21,100 72,700 3,010,000 24,100 -	 88,877.8 14,829.9 658.2 	NA NA NA NA NA NA NA	<8.6 <8.6 <3.1 <8.6 <8.6 <8.6 <8.6	NA NA NA NA NA NA	<9.8 <9.8 <9.8 <3.5 <9.8 <9.8 <9.8	NA NA NA NA NA NA	<11 <11 <3.9 <11 <11 <11	NA NA NA NA NA	<9.6 <9.6 5.8 J <9.6 13.4 J <9.6	NA NA NA NA NA NA	39.6 <10 15.6 J <3.5 <10 <10 20.1	NA NA NA NA NA NA	<9.2 <9.2 <3.3 <9.2 <9.2 <9.2 <9.2	NA NA NA NA NA NA

 Notes:

 PAHs = Polynuclear Aromatic Hydrocarbons NA = Not analyzed

 ND = Not Detected

 < = not detected at laboratory method detection limit shown mg/kg = miligrams per kilogram</td>

 µg/kg = micrograms per kilogram

 ^J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

 - No Generic RCL established.

 () Background Threshold Value (BTV)

 xx = Parameter exceeds BTV

 Generic RCLs are from the WDNR RCL, December 2018

 ^A Person the work Polic hose hose the 204 bacted.

^A Parameter exceeds Generic RCL for Non-Industrial Direct Contact.
 ^B Parameter exceeds Generic RCL for Industrial Direct Contact.
 ^C Parameter exceeds Generic RCL for Groundwater Pathway. (using a DAF=2)

	Inorganics Metals (milligram per kilogram) Polynuclear Aromatic Hydrocarbon Laboratory Result (microgram per kilogram)																									
Borehole Number	Date	Depth (feet below grade)	PID Response (iui)	Description	Cyanide (mg/kg)	Total Arsenic	Total Lead	Total Nickel	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(g,h,i) perylene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(a) pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
WDNR	Direct Contac	t RCL		Industrial	195.0	<u>8* [3]</u>	<u>800</u>	<u>22500</u>	<u>45,200,000</u>	<u>NE</u>	<u>100,000,000</u>	<u>20,800</u>	<u>NE</u>	<u>21,100</u>	<u>211,000</u>	<u>2110</u>	2,110,000	<u>2110</u>	<u>30,100,000</u>	<u>30,100,000</u>	<u>21,100</u>	<u>72,700</u>	<u>3,010,000</u>	<u>24,100</u>	<u>115,000</u>	22,600,000
			ľ	Non-Industrial	27.10	<u>8* [0.677]</u>	<u>400</u>	<u>1550</u>	3,590,000	NE	17,900,000	<u>1140</u>	<u>NE</u>	<u>1150</u>	<u>11,500</u>	<u>115</u>	<u>115,000</u>	<u>115</u>	2,390,000	2,390,000	<u>1150</u>	<u>17,600</u>	239,000	<u>5,520</u>	<u>115,000</u>	1,790,000
WI	ONR RCL for Gr	oundwate	r Protec	tion	4.04	8* [0.584]	52* [27]	31* [13.0612]	NE	NE	196,949.2	NE	NE	478.1	NE	470	144.2	NE	88,877.8	14,829.9	NE	NE	NE	658.2	NE	54,545.5
	Background	Threshold	Value		NE	8	52	31	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
SB 1 (0-2)	02/23/16	0-2	<1		ND	2.0	12.1	13.7	ND	0.576	ND	2.6	4.53	7.14	2.48	2.93	5.68	2.19	4.61	ND	4.29	0.676	0.934	1.24	2.73	3.55
SB1 (7)	02/23/16	7	<1		ND	0.93	4.0	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2 (0-2)	02/23/16	0-2	<1		ND	4.2	8.9	13.1	ND	ND	ND	1.18	1.39	1.59	1.13	ND	1.16	ND	ND	ND	1.45	ND	ND	0.529	ND	ND
SB2 (6-8)	02/23/16	6-8	<1		ND	0.61	1.6	47.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3 (0-2)	02/23/16	0-2	<1		ND	2.7	8.9	5.2	5.61	11.4	31.5	107	82.4	276	64.5	138	159	19.9	217	5.31	78	11.9	13.5	11.9	77.9	195
SB3 (8)	02/23/16	8	<1		0.515	0.93	1.0	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4 (0-2)	02/23/16	0-2	<1		ND	4.9	9.7	18.4	ND	ND	ND	1.8	3.58	3.77	1.55	2.33	2.86	ND	2.36	ND	2.4	ND	ND	0.404	1.36	2.42
SB4 (8)	02/23/16	8	<1		0.477	1.2	1.3	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB5 (0-2)	02/23/16	0-2	<1		0.988	1.5	36.3	102	0.379	0.484	0.559	2.57	4.30	6.16	2.19	2.67	4.88	1.41	5.92	ND	3.7	1.16	1.51	1.4	2.94	5.4
SB6 (0-2)	02/23/16	0-2	<1		-	3.9	102	624	48	250	331	<u>1660</u>	987	<u>3750</u>	1050	<u>1500</u>	2630	<u>264</u>	4380	71.6	1040	188	229	225	861	3920
SB6 (10)	02/23/16	10	<1		-	0.54	1.2	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB7 (0-2)	02/23/16	0-2	<1		ND	7.6	157	17.2		0.356	2.12	1.89	2.11	4	2.02	1.7	2.82	3.21	3.21	ND	2.27	0.522	ND	0.597	1.95	2.54
SB7 (10)	02/23/16	10	<1		0.411	1.3	19.1	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB8 (0-2)	02/23/16	0-2	<1		0.631	1.2	5.1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB8 (10)	02/23/16	10	<1		0.469	3.2	2.2	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB9 (0-2)	02/23/16	0-2	<1		ND	4.9	42.9	10.1	ND	ND	ND	ND	ND	ND	ND	ND	1.11	1.33	ND	ND	ND	ND	ND	0.444	ND	ND
SB9 (10.5)	02/23/16	10.5	<1		0.275	0.44	0.58	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB10 (0-2)	02/23/16	0-2	<1		ND	3.2	127	10.9	0.643	2.42	2.68	22.9	21.8	47.3	12.9	23.8	33.8	5.18	44.6	1.02	19.9	2.6	3.13	6.14	20.4	36
SB10 (10)	02/23/16	10	<		1.07	1.5	2.7	2.9	ND	ND	ND	1.76	1.38	2.23	1.12	1.5	1.71	ND	2.62	ND	1.28	ND	0.468	0.451	1.45	2.37
Duplicate 1 (SB7 0-2)	02/23/16	0-2	<1		ND	5.7	234	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duplicate 2 (SB10 0-2)	02/23/16	0-2	<1		ND	4.2	15.7	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duplicate 3 (SB9 0-2)	02/23/16	0-2	<1		-	-	-	-	ND	0.793	0.827	7.58	6.31	14.6	4.13	7.28	11.2	1.62	13.8	ND	5.32	1.91	2.45	2.8	8.78	11.8
Notes: WDNR so	DCL Summon	table (De	combo	- 2018) used to esta	blish PCLs for groups	hunder proton	tion and dire		-			•				•	•					•		•	• •	

Notes: WDNR soil RCL Summary table (December 2018) used to establish RCLs for groundwater protection and direct contact

<x = compound not detected to a detection limit of x</pre>

not laboratory analyzed

XX [XXX] = standard in bold are background threshold values (BTVs) being utilized for the purpose of evaulation under ch. NR700 WAC. The established WAC RCL is noted in brackets. XXX [XXX] = exceeds WDNR Industrial RCL for direct contact risk XXX = exceeds WDNR Non-Industrial RCL for direct contact risk

 XXX
 = exceeds WDNR RCL for protection of groundwater and/or BTV

 NE
 = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Tabl

* = The WDNR has determined state-wide soil background threshholed values (January 2014). Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with

respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.

"J" = analyte detected between the limit of detection and limit of quantification iui = instrument units as isobutylene

RCL = residual contaminant level

Note: = For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.

However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Table A.2: Stantec Soil Sample Field Screening and Volatile Organic Compound Laboratory Results, Former Niphos Coatings Property, Slinger, Wisconsin

					Volatile Orga	nic Compound Laborat	ory Result (Detected Com	pounds Only)			
Borehole Number	Date	(feet below grade)	PID Response (lu)	Description	1,2,4-Trimethylbenzene	Ethylbenzene	Dichlorodifluoromethane	Methylene Chloride	Napthalene	Toluene	Xylenes, Total
				Industrial	<u>219</u>	<u>35.4</u>	<u>530</u>	<u>1,150</u>	<u>24.1</u>	<u>818</u>	260
W	DNR Direct Cont	act RCL		Non-Industrial	<u>219.0</u>	<u>8.02</u>	<u>126</u>	<u>61.8</u>	5.52	<u>818</u>	<u>260</u>
	WDNR RCL for	r Groundwater P	rotection		1.3787	1.57	3.0863	0.0026	0.6582	1.1072	3.96
SB5 (0-2)	02/23/16	0-2	<1		ND	ND	ND	ND	ND	ND	ND
SB6 (0-2)	02/23/16	0-2	<1		0.0351	0.0149	ND	ND	0.111	0.0599	0.1024
SB6 (10)	02/23/16	10	<1		ND	ND	ND	ND	ND	ND	ND
SB9 (0-2)	02/23/16	0-2	<1		ND	ND	0.0413	ND	ND	ND	ND
SB9 (10.5)	02/23/16	10.5	<1		ND	ND	ND	0.0425	ND	ND	ND
SB10 (0-2)	02/23/16	0-2	<1		ND	ND	0.0386	ND	ND	ND	ND
SB10 (10)	02/23/16	10	<1		ND	ND	ND	0.0409	ND	ND	ND
Duplicate 4 (SB5 0-2)	02/23/16	0-2	<1		ND	ND	ND	0.0607	ND	ND	ND

Notes: WDNR soil RCL Summary table (December 2018) used to establish RCLs for groundwater protection and direct contact.

All results expressed in milligrams per kilogram.

ND Not detected above LOD

<x = compound not detected to a detection limit of x iui = instruments units as isobutylene</p>

RCL = residual contaminant level

 \underline{XX} = exceeds WDNR Industrial RCL for direct contact risk

XX = exceeds WDNR Non-Industrial RCL for direct contact risk

XX = exceeds WDNR RCL for protection of groundwater

ATTACHMENT A.3

RESIDUAL SOIL CONTAMINATION TABLES

Note – units of measure are in milligrams per kilogram (mg/kg) for metals and in micrograms per kilogram (μ g/kg) for PAHs

	Inorganics Metals (milligram per kilogram)				gram)	Polynuclear Aromatic Hydrocarbon Laboratory Result (microgram per kilogram)																					
Borehole Numb er	Date	Depth (feet below grade)	PID Response (iui)	Description	Cyanide (mg/kg)	Total Arsenic	Total Lead	Total Silver	Total Nickel	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(g,h,i) perylene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(a) pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
				Industrial	18.4	<u>8* [3]</u>	800	5840	<u>19800</u>	45.200.000	NE	100.000.000	20.800	NE	21.100	211.000	2.110	2.110.000	<u>2.110</u>	<u>30.100.000</u>	<u>30.100.000</u>	21.100	<u>72.700</u>	3.010.000	24.100	NE	22.600.000
WDNR D	irect Contac	t RCL		Non-Industrial	4.13	<u>8* [0.677]</u>	400	<u>391</u>	1550	3,590,000	<u>NE</u>	17,900,000	<u>1,140</u>	<u>NE</u>	<u>1,150</u>	<u>11,500</u>	<u>115</u>	<u>115,000</u>	<u>115</u>	<u>2,390,000</u>	2,390,000	<u>1,150</u>	<u>17,600</u>	239,000	<u>5,520</u>	<u>NE</u>	<u>1,790,000</u>
WDNR	RCL for Grou	undwate	r Protec	tion	4.04	8* [0.584]	52* [27]	0.85	31 * [13.0612]	NE	NE	196,949.2	NE	NE	478.1	NE	470	144.2	NE	88,877.8	14,829.9	NE	NE	NE	658.2	NE	54,545.5
В	ackground T	hreshold	Value		NE	8	52	NE	31	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
SB2 (6-8)	02/23/16	6-8	<1		ND	0.61	1.6	-	47.3	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
SB5 (0-2)	02/23/16	0-2	<1		0.988	1.5	36.3	-	102	0.379	0.484	0.559	2.57	4.30	6.16	2.19	2.67	4.88	1.41	5.92	ND	3.7	1.16	1.51	1.4	2.94	5.4
SB6 (0-2)	02/23/16	0-2	<1		-	3.9	102	-	624	48	250	331	<u>1660</u>	987	<u>3750</u>	1050	<u>1500</u>	2630	<u>264</u>	4380	71.6	1040	188	229	225	861	3920
SB7 (0-2)	02/23/16	0-2	<1		ND	7.6	157	-	17.2		0.356	2.12	1.89	2.11	4	2.02	1.7	2.82	3.21	3.21	ND	2.27	0.522	ND	0.597	1.95	2.54
SB10 (0-2)	02/23/16	0-2	<1		ND	3.2	127	-	10.9	0.643	2.42	2.68	22.9	21.8	47.3	12.9	<u>23.8</u>	33.8	5.18	44.6	1.02	19.9	2.6	3.13	6.14	20.4	36
TW6 (1-3)	07/18/13	1-3	<1		ND	<u>9.9</u>	14.4	ND	40.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.9 J
TW7 (8-9)	07/18/13	8-9	<1		0.36 J	3.5 J	39.6	0.96 J	50.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TW9 (1-3)	07/18/13	1-3	<1		0.19 J	<u>10.8</u>	11.9	ND	84.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TW9 (6-7)	07/18/13	6-7	<1		ND	4.0	5.1	ND	231	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC-SS-TW12	07/18/13	3-4	0		ND	3.1	76.7	ND	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC-SS-TW12	07/18/13	5-6	0		ND	4.5	4.5	ND	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1W	12/14/18	1.5-2	<1		-	<u>9.3</u>	14 F1	6.1 F1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	12/14/18	1.5-2	<1		-	7.6	14	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2W	12/14/18	1.5-2	<1		-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	12/14/18	1.5-2	<1		-	-	-	-	-	ND	ND	ND	ND	38 J	39 J	ND	ND	ND	ND	ND	ND	32 J	ND	ND	ND	ND	ND
Duplicate 1 (SB7 0-2)	02/23/16	0-2	<1		ND	5.7	234	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: WDNR soil RCL Summary table (December 2018) used to establish RCLs for groundwater protection and direct contact.

<x = compound not detected to a detection limit of x
- = not laboratory analyzed</pre>

 XX*
 XXX
 standard in bold are background threshold values (BTVs) being utilized for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.

 XXX
 = exceeds WDNR Industrial RCL for direct contact risk

XXX = exceeds WDNR Non-Industrial RCL for direct contact risk

 XXX
 = exceeds WDNR RCL for protection of groundwater and/or BTV

 NE
 = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table

- * = The WDNR has determined state-wide soil background threshholed values (February 2013).
 - Therefore, reported values less than BTWs are not considered a direct contact or groundwater pathway concern with

respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.

"F2" = Matrix spike (MS)/MS Duplicate (MSD) Relative Percent Difference (RPD) exceeds control limits

"F1" = MS and/or MSD Recovery is outside acceptance limits.

"J" iui

RCL

\\US0501-PPFSS01\workgroup|1937\active\193705875(05_report_deliv/deliverable/reports\2021 Closure\April 2021\Table A.3 - Soil PAHs and Metals, Former Niphos Coatings_2021.xlsx

Note:

analytic miss Recovery is basice acceptance initis.
 analytic detected between the limit of detection and limit of quantification
 instrument units as isobutylene
 residual contaminant level
 For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
 However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.
 Soil samples CE and SS-2 were removed during the December 2018 excavation/remediation activities

ATTACHMENT A.4

VAPOR ANALYTICAL TABLES

AECOM sampled indoor air for VOCs during their 2013 investigation. Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.

Table A.4 – AECOM 2013 sampling event

Indoor Air Testing Detections: 24-hour indoor air sample (Method TO15)

Detected VOCs	Degional Sereening Lovel*	NIOSH REL-TWA**	Sample Results
(ug/m3)	Regional Screening Level*		(NC-Gas)
Ethylbenzene	49	435,000	2.7
Naphthalene	3.6	50,000	93.4
Tetrachloroethene	180	678,000	3.7
Toluene	22,000	375,000	6.3
Xylenes	440	435,000	6.7

*Standards from the May 2020 Regional Screening Level Industrial Air Summary Table provided by the Region 3 EPA website.

**National Institute of Occupational Safety and Health Recommended Exposure Limit based on an 8-hour Time Weighted Average.

None of the detected VOCs were present in the soil and/or groundwater samples collected from the subject property. As such, it appears that the detected VOCs may be present due to materials stored or formerly used in the building and not the result of a release. No additional action is recommended relative to the indoor air sample collected from the building.

ATTACHMENT A.5

OTHER MEDIA OF CONCERN

AECOM sampled the concrete in the former plating area for metals and for lead-based paint during their 2013 investigation.

Table A.5 – AECOM 2013 sampling event

Concrete Floor Testing

Two concrete samples were collected from the corroded floor in the main plating room and analyzed for total metals and cyanide (see Figure B.1.b for locations). The results are summarized below.

Parameters	20 X TCLP limit for hazardous waste*	NC-CON-1 7/18/2013	NC-CON-2 7/18/2013
Arsenic	100	7.3	11.3 J
Barium	2,000	49.3	32.1
Cadmium	20	12.5	67.9
Chromium	100	62.2	43.8
Copper		64.2	105
Lead	100	86.1	21.6
Nickel		1,340	36,300
Selenium	20	< 0.58	<0.57
Silver	100	<0.21	<0.21
Mercury	4	0.0058 J	< 0.0029
Cyanide		2.2	3.3

Notes:

Results are provided in miligrams per kilogram

-- = no standard

^J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. *TCLP limits for determination of Characteristic Hazardous Waste are identified in NR 661, Table 2. Since the TCLP method incorporates a 20-fold dilution, 20X the TCLP limit is a conservative estimate for comparing to total metals results, assuming 100% of the metal leaches from the sampled substrate.

Lead-Based Paint Testing

Sample ID	Results (ppm)	Paint Color	Sample Location		
NC-PB-1	2,600	Orange	Garage Addition - floor		
NC-PB-2	1,400	Orange	Garage Addition - floor		
NC-PB-3	510 [#]	Orange	Main Room - floor		
NC-PB-4	820 #	Orange	Plating Room - floor		
NC-PB-5	NC-PB-5 470 [#]		Plating Room - floor		
NC-PB-6	97 #	White	Plating Room - Wall off of window ledge		
NC-PB-7	NC-PB-7 45 #		Garage Addition - Wall off of window ledge		
NC-PB-8 730 #		Orange	Plating Room - Wall, 1' above floor		

[#] Sample was flagged by the laboratory as containing substantial amounts of substrate which could bias the sample results low.

Sample has greater than 600 parts per million (ppm) lead concentration and is considered lead-based paint in the State of Wisconsin. Proper disposal is necessary by the contractor.

ATTACHMENT A.6

WATER LEVEL ELEVATIONS

Water elevations are from the June 2020 investigation where depth to water and top of casing surveys were measured on temporary wells TW6 through TW19. Wells that were replaced during this investigation are noted with a "R" (ex. TW17R).

Well Type	Well ID	Date Installed	DTW (fbgs)	TOC elevation (ft amsl)	Groundwater Elevation (ft amsl)
	TW-6R	6/10/20	9.90	1042.24	1032.34
	TW-7R	6/10/20	10.01	1042.94	1032.93
	TW-8R ¹	6/11/20	10.11	1042.69	1032.58
	TW-9R	6/10/20	10.32	1042.92	1032.60
SIIC	TW-10R	6/10/20	10.01	1042.27	1032.26
Temporary Water Table Wells	TW-11R ¹	6/11/20	10.06	1042.64	1032.58
tter Ta	TW12	6/11/20	10.51	1042.87	1032.36
ary Wæ	TW-13R	6/10/20	10.00	1042.19	1032.19
mpora	TW14	6/11/20	10.43	1042.92	1032.49
Te	TW-15R	6/11/20	10.42	1042.77	1032.35
	TW16	6/11/20	9.81	1042.30	1032.49
	TW-17R ¹	6/11/20	10.34	1042.94	1032.60
	TW18	6/11/20	10.34	1042.94	1032.60
	TW19	6/11/20	10.50	1043.08	1032.58

TABLE A.6 - WATER LEVEL DATA: Former Niphos Coatings Inc., 308 310 Oak St, Slinger, WI

Notes:

1) The water level in the well may not have fully recovered at the time of measurement, which was measured the same day of installation.

DTW = depth to water

fbgs = feet below ground surface

ft amsl = feet above mean sea level

TOC = top of casing

ATTACHMENT A.7

OTHER

Not applicable - No other data or information relevant to case closure was associated with this case.

ATTACHMENT B

MAPS, FIGURES, AND PHOTOS

Table of Contents

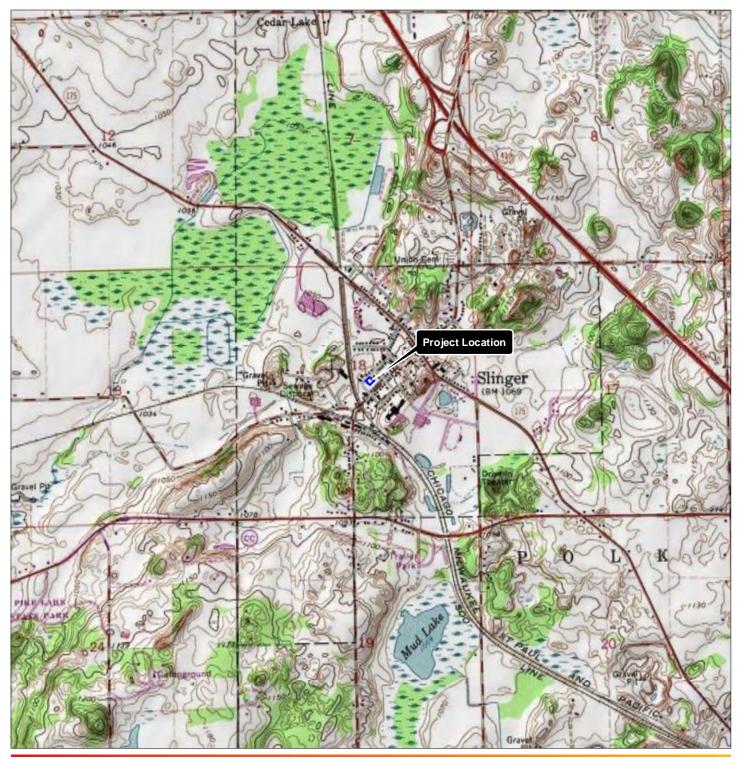
Title	Status	Explanation (if applicable)
B.1 Location Maps		
B.1.a Location Map	Attached	
B.1.b Detailed Site Maps	Attached	PCBs were not detected in the three wipe samples collected by AECOM during the 2013 event in the main plating room. We do not anticipate that PCBs will be an issue relative to potential re-use or demolition/disposal of the site structure.
B.1.c RR Sites Map	Attached	
B.2 Soil Figures		
B.2.a Soil Contamination	Attached	
B.2.b Residual Soil Contamination	Attached	
B.3 Groundwater Figures		
B.3.a Geologic Cross Section Figures	Attached	Two cross sections are provided: Figure Numbers B.3.a.(1) and B.3.a.(2).
B.3.b Groundwater Isoconcentration	Attached	
B.3.c Groundwater Flow Direction	Attached	
B.3.d Monitoring Wells	Attached	
B.4. Vapor Maps and Other Media		
B.4.a Vapor Intrusion Map	Not applicable	Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.
B.4.b Other Media of Concern	Not applicable	No other media of concern was identified during investigation or remediation activities associated with this case.
B.4.c Other	Not applicable	No other maps were generated for this investigation/remediation.
B.5 Structural Impediment Photos	Not applicable	No structural impediments were encountered.

ATTACHMENT B.1

LOCATION MAPS

ATTACHMENT B.1.A

LOCATION MAP





Notes 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Data Sources include: Stantec 3. Background: 7.5' Topographic Quadrangle

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Legend Property Boundary Figure No. B.1.a

0

Title Location Map

Client/Project Washington County Former Niphos Coatings Building 193703514 Prepared by AJS on 2016-04-01 Technical Review by BT on 2016-04-X Independent Review by X on 2016-04-X Project Location T10N, R19E, S18 V. of Slinger, Washington Co., WI

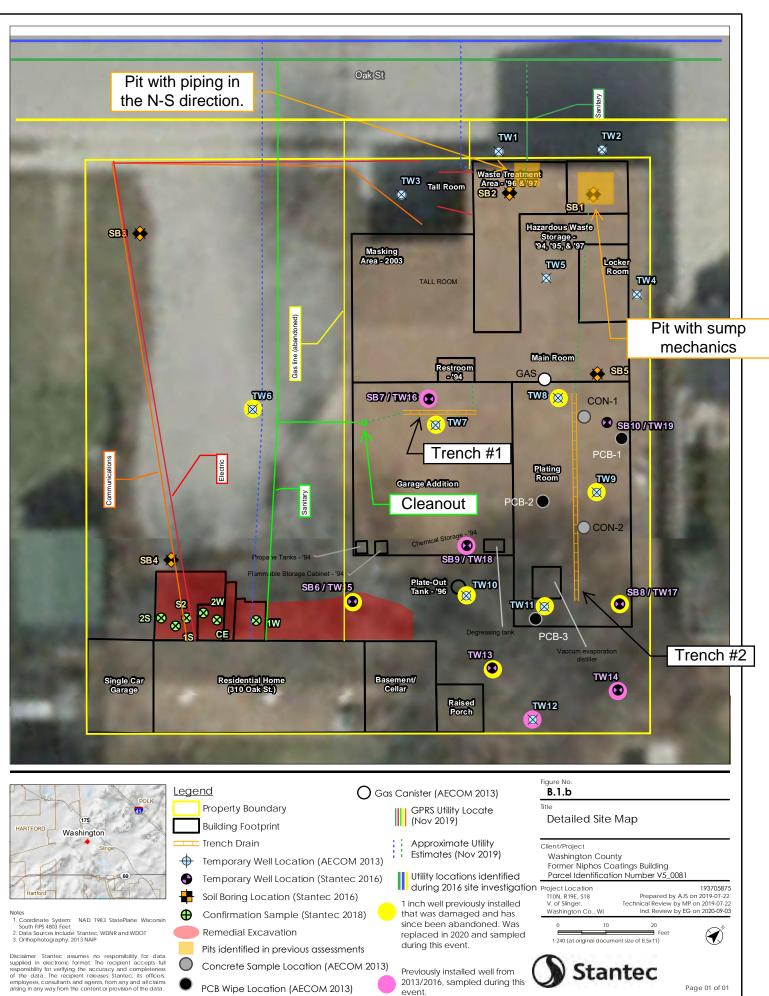


Page 01 of 01

ATTACHMENT B.1.B

DETAILED SITE MAPS

PCBs were not detected in the three wipe samples collected by AECOM during the 2013 event in the main plating room. We do not anticipate that PCBs will be an issue relative to potential re-use or demolition/disposal of the site structure.



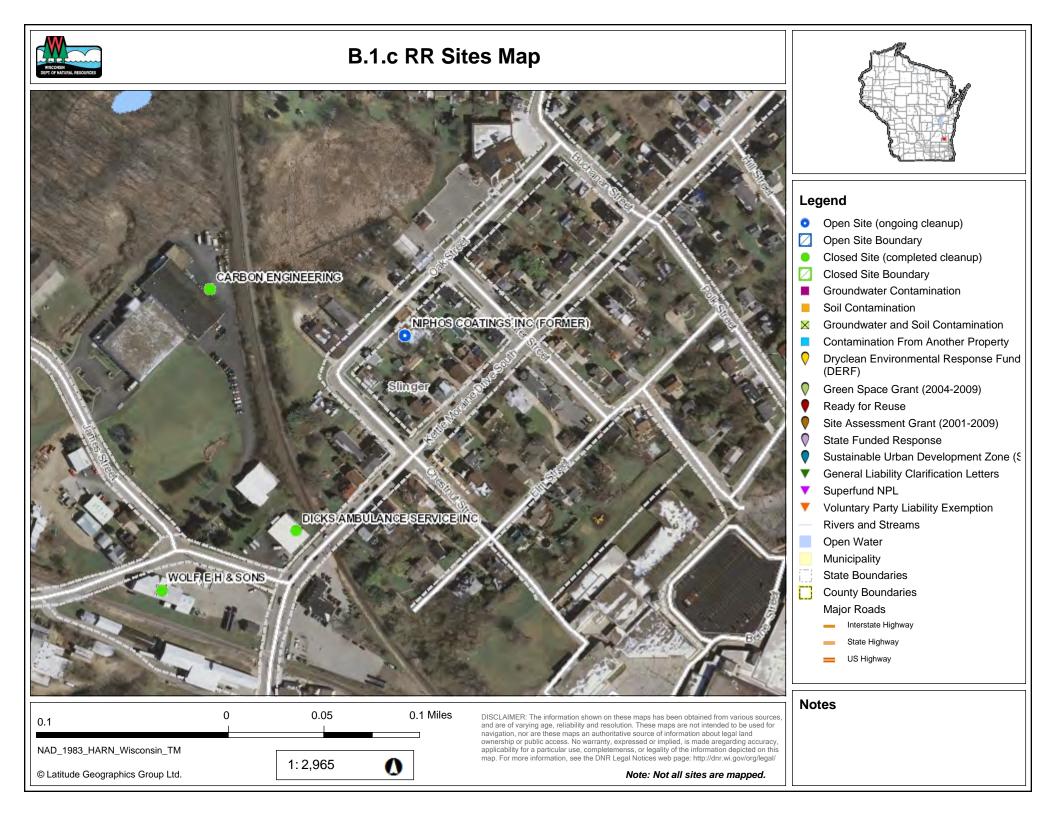
event.

Page 01 of 01

PCB Wipe Location (AECOM 2013)

ATTACHMENT B.1.C

RR SITES MAP

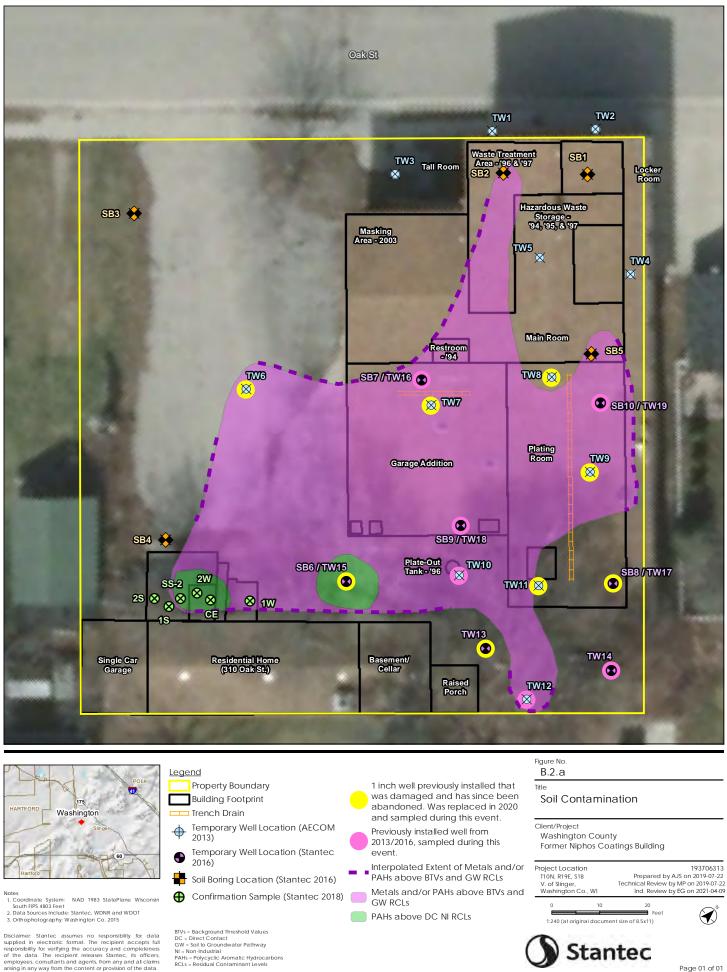


ATTACHMENT B.2

SOIL FIGURES

ATTACHMENT B.2.A

SOIL CONTAMINATION



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Page 01 of 01

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ATTACHMENT B.2.B

RESIDUAL SOIL CONTAMINATION

Oak St **TW1** TW₂ \otimes \otimes Waste Treatment Area-'96 & '97 SB2 SB1 TW3 Tall Room Locker Room \otimes * **Hazardous Waste** SB3 🔶 Storage -'94, '95, & '97 Masking Area - 2003 TW5 \otimes TW4 X Main Room 😣 SB5 Restroom ='94 TWO TW8 🗙 SB7 / TW16 Ø 🗙 TW7 SB10//TW19 Plating Room TW9 Garage Addition Ø SB4 🄶 SB9//TW18 XW10 Plate-Out Tank - '96 SB6//TW15 SB8/TW17 2W SS-2 TW11 $\otimes \otimes$ \boxtimes × ₈ 28 ⊗ 1W CE 15 **TW13 TW14** Residential Home (310 Oak St.) Single Car Garage Basement/ Cellar Raised Porch TW12 \boxtimes Figure No Legend B.2.b Property Boundary 1 inch well previously installed that Title 1 was damaged and has since been Building Footprint **Residual Soil Contamination** abandoned. Was replaced in 2020 Washington Trench Drain and sampled during this event. Client/Project Temporary Well Location (AECOM Previously installed well from \oplus Washington County Former Niphos Coatings Building 2013) 2013/2016, sampled during this event. Temporary Well Location (Stantec Interpolated Extent of Metals and/or • 2016) PAHs above BTVs and GW RCLs Project Location T10N, R19E, S18 V. of Slinger, Washington Co., 193706313 Prepared by AJS on 2019-07-22 Technical Review by MP on 2019-07-22 Ind. Review by EG on 2021-04-09 Soil Boring Location (Stantec 2016) Metals and/or PAHs above BTVs and GW RCLs Ð Confirmation Sample (Stantec 2018) 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet PAHs above DC NI RCLs 2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: Washington Co 2015 ()Fee 1:240 (at original document size of 8.5x11)

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Page 01 of 01

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- BTVs = Background Threshold Values DC = Direct Contact GW = Soil to Groundwater Pathway NI = Non-Industrial PAHs = Polycyclic Aromatic Hydrocarbons RCLs = Residual Contaminant Levels

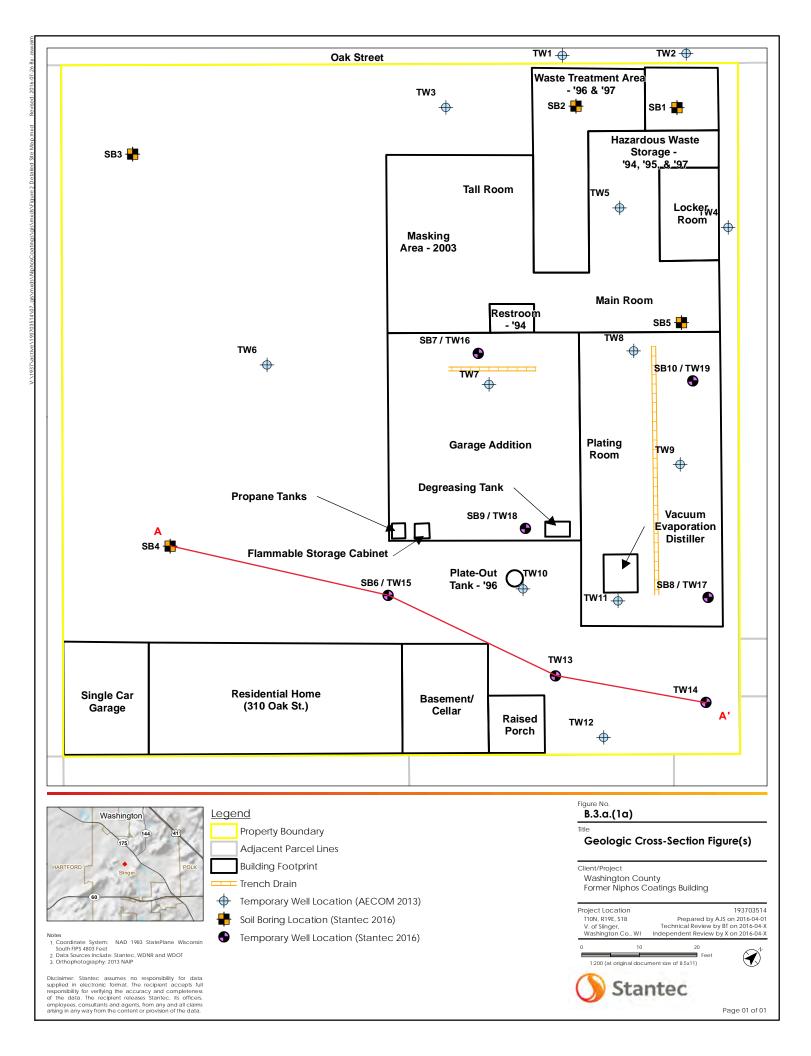
ATTACHMENT B.3

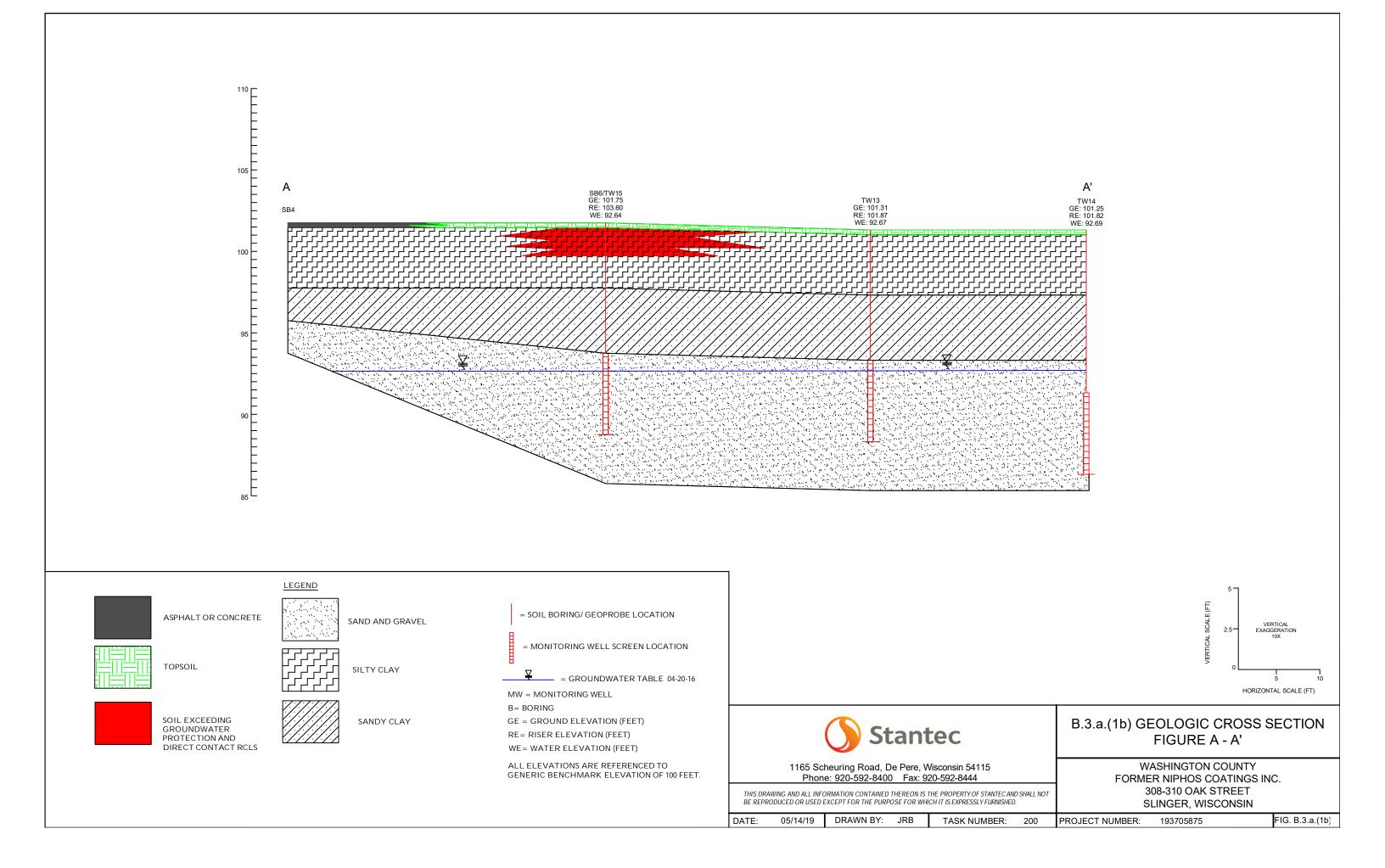
GROUNDWATER FIGURES

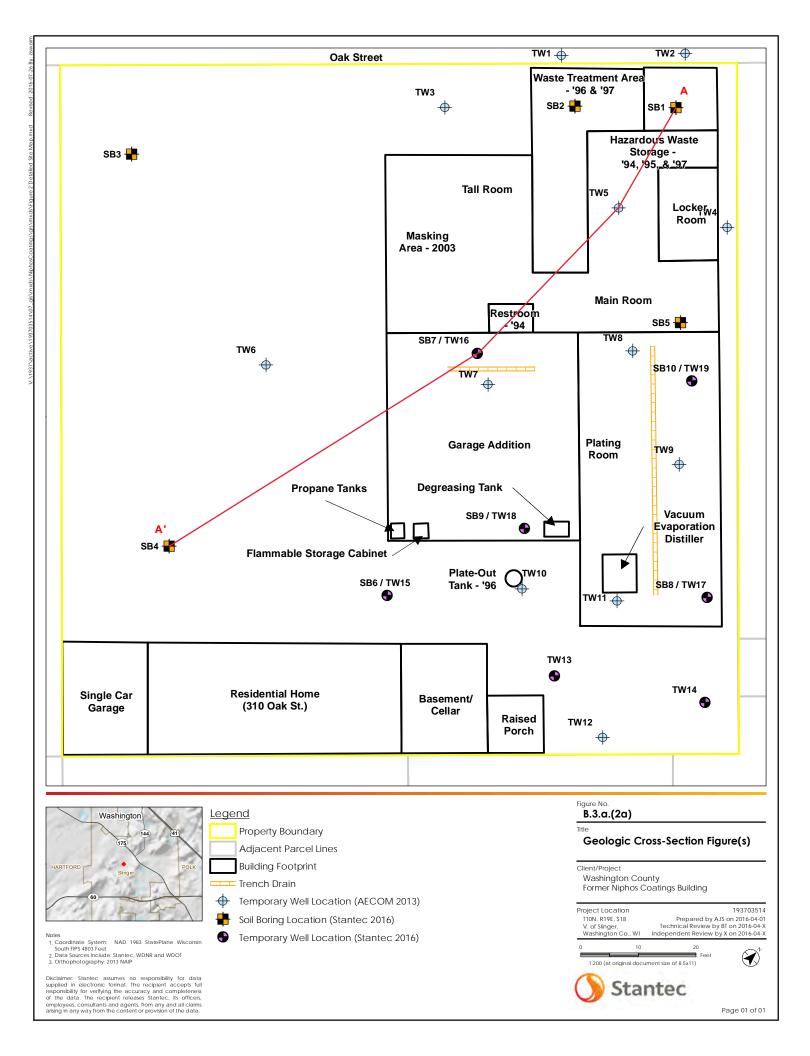
ATTACHMENT B.3.A

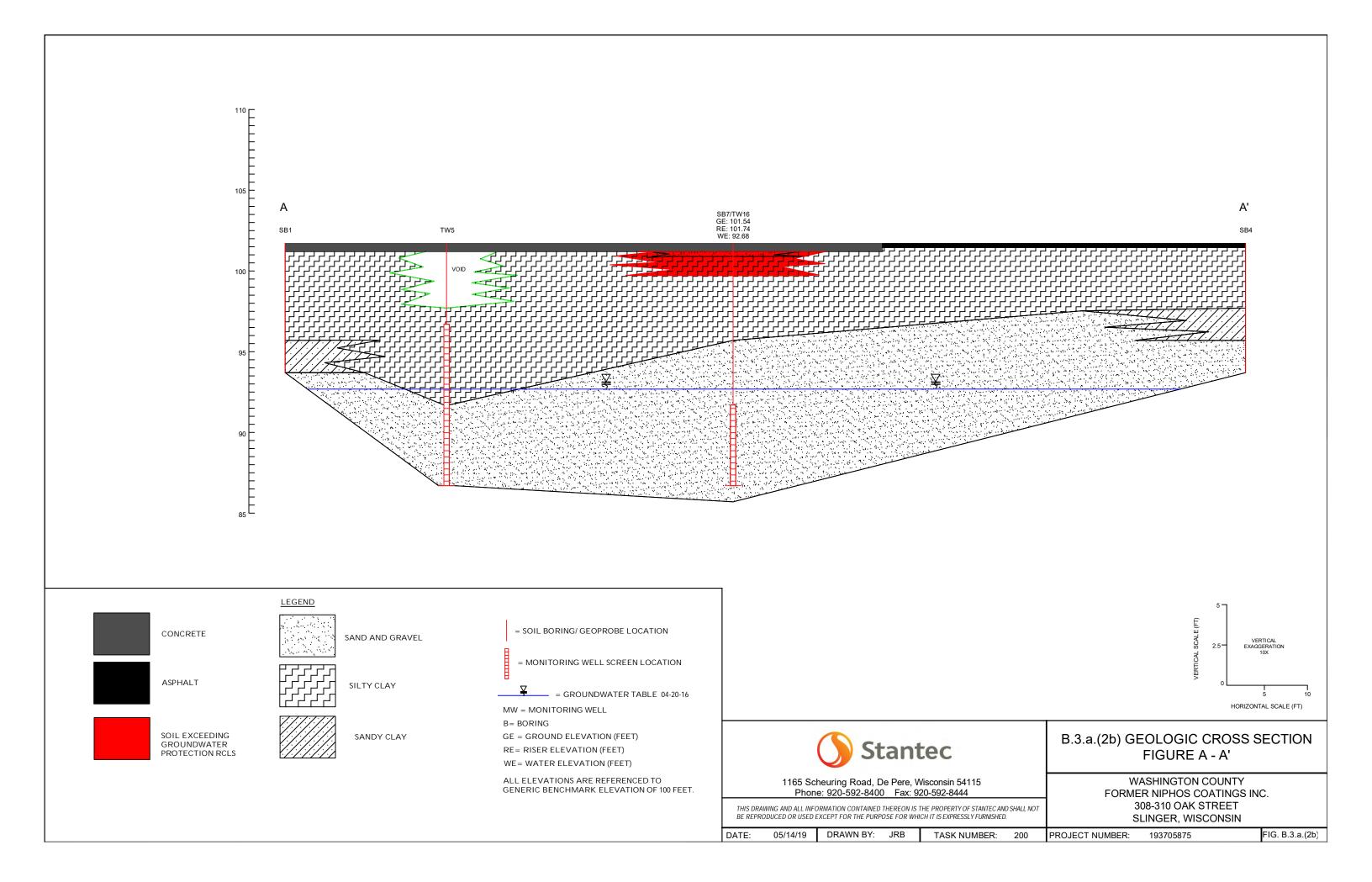
GEOLOGIC CROSS SECTION FIGURES

Two cross sections are provided: Figure Numbers B.3.a.(1) and B.3.a.(2).









ATTACHMENT B.3.B

GROUNDWATER ISOCONCENTRATION



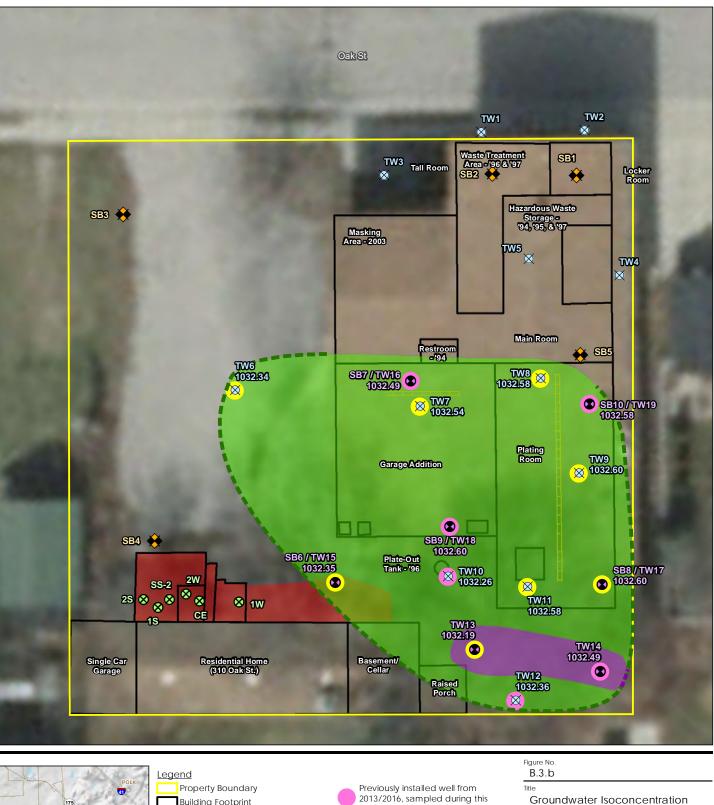
Washington

2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: Washington Co. 2015

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NAD 1983 StatePlane Wisc

1. Coordinate System: South FIPS 4803 Feet



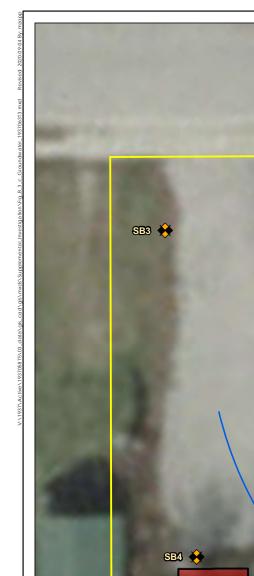
- Building Footprint Trench Drain Temporary Well Location (AECOM \oplus 2013) Temporary Well Location (Stantec
- 2016) Soil Boring Location (Stantec 2016)
- Ð Confirmation Sample (Stantec 2018)
- 1 inch well previously installed that was damaged and has since been abandoned. Was replaced in 2020 and sampled during this event.
- 2013/2016, sampled during this event
- Interpolated Extent of Arsenic ES Exceedance
- Interpolated Extent of Arsenic PAL Exceedance
- Approximate Extent of Arsenic ES Exceedance
- Approximate Extent of Arsenic PAL Exceedance
- Remedial Excavation
- PAL = Preventative Action Limit ES = Enforcement Standard
- Client/Project Washington County Former Niphos Coatings Building Project Location T10N, R19E, S18 V. of Slinger, Washington Co., 193706313 Prepared by MZ on 2020-07-15 nical Review by AS on 2020-07-15 Ind. Review by EG on 2020-07-31 Tech Ì Fee 1:240 (at original document size of 8.5x11)

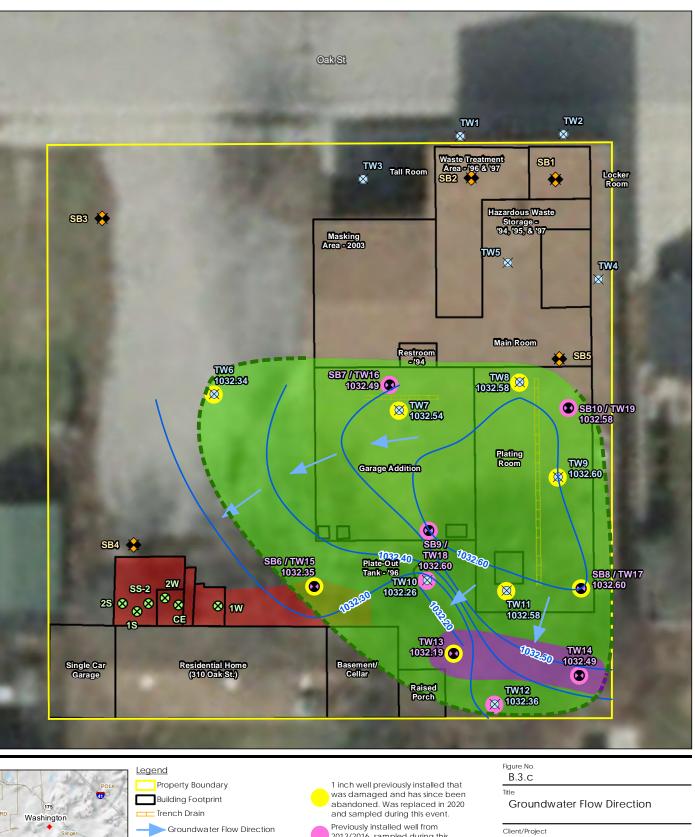
Stantec

Page 01 of 01

ATTACHMENT B.3.C

GROUNDWATER FLOW DIRECTION





- Temporary Well Location (AECOM Φ 2013) Temporary Well Location (Stantec 2016) • NAD 1983 StatePlane W
- 1. Coordinate System: South FIPS 4803 Feet 2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: Washington Co. 2015

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PAL = Preventative Action Limit ES = Enforcement Standard

Soil Boring Location (Stantec 2016)

Confirmation Sample (Stantec 2018)

Groundwater Elevation Contour

(June 11, 2020)

- Previously installed well from 2013/2016, sampled during this event.
- Interpolated Extent of Arsenic ES Exceedance
- Interpolated Extent of Arsenic PAL Exceedance
- Approximate Extent of Arsenic ES Exceedance
 - Approximate Extent of Arsenic PAL Exceedance
 - Remedial Excavation

Stantec Page 01 of 01

Fee 193706313

()

Prepared by MZ on 2020-07-15 nical Review by AS on 2020-07-15 Ind. Review by EG on 2020-07-31

Washington County

Project Location T10N, R19E, S18 V. of Slinger, Washington Co.,

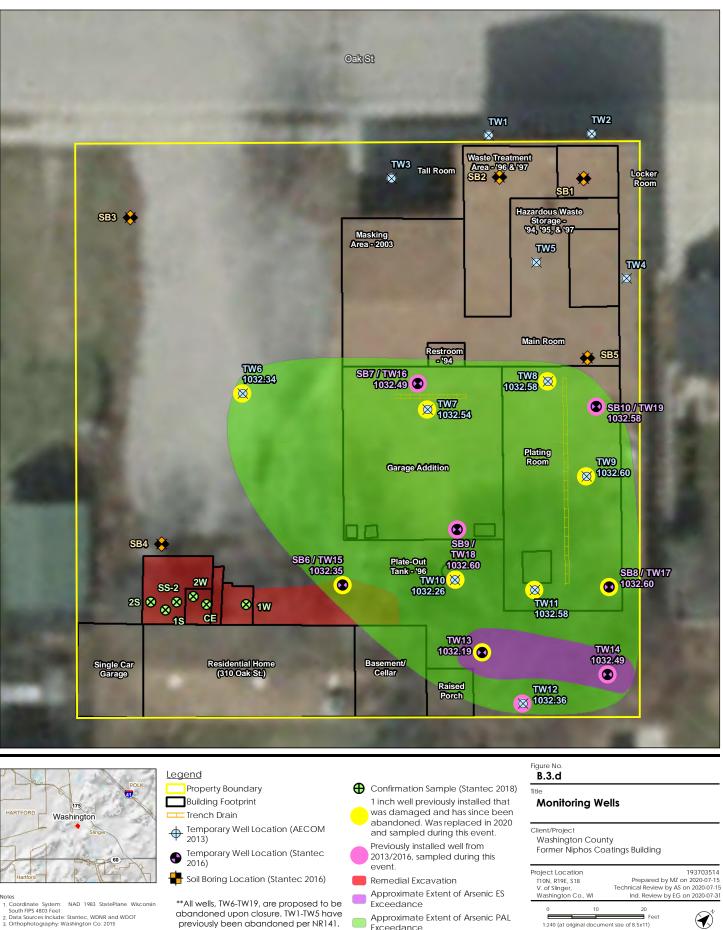
Former Niphos Coatings Building

1:240 (at original document size of 8.5x11)

Tech

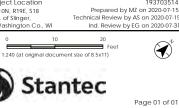
ATTACHMENT B.3.D

MONITORING WELLS



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- previously been abandoned per NR141.
- Wells replaced in 2020, noted in yellow, have been abandoned per NR141 and replacement wells are noted with a "R"
 - notation. For example, TW13R.**
- Exceedance
- PAL = Preventative Action Limit ES = Enforcement Standard



ATTACHMENT B.4

VAPOR MAPS AND OTHER MEDIA

ATTACHMENT B.4.A

VAPOR INTRUSION MAP

Not Applicable – Due to the type of residual contamination (PAH and metal contaminated soil), lack of petroleum and/or volatile organic compound contamination, buildings, and placement of an asphalt cap, vapor intrusion was not assessed.

ATTACHMENT B.4.B

OTHER MEDIA OF CONCERN

Not applicable – No other media of concern was identified during investigation or remediation activities associated with this case.

ATTACHMENT B.4.C

OTHER

Not applicable – No other maps were generated for this investigation/remediation.

ATTACHMENT B.5

STRUCTURAL IMPEDIMENT PHOTOS

Not applicable - No structural impediments were encountered.

ATTACHMENT C

DOCUMENTATION OF REMEDIAL ACTION

Table of Contents

Title	Status	Explanation (if applicable)
C.1 Site Investigation Documentation	Not applicable	Previously submitted.
C.2 Investigative Waste	Attached	Soil disposal forms from June 2018 and December 2018 remedial excavations.
C.3 Description of Methodology	Not applicable	Previously submitted. Ch. NR 720, Wis. Adm. Code was used in determining soil cleanup standards for the site.
C.4 Construction Documentation	Attached	Remedial Documentation Report of the soil removal action, dated June 10 2019
C.5 Decommissioning of Remedial Systems	Not applicable	No system or equipment was installed as part of remedial activities completed at the site.
C.6 Other	Not applicable	No other data or information is known to exist.

ATTACHMENT C.1

SITE INVESTIGATION DOCUMENTATION

Historical Site Operations and PFAS Concern Summary Letter, dated February 9, 2021.

Other site investigation documentation was previously submitted.



Stantec Consulting Services Inc. 12075 Corporate Parkway Suite 200, Mequon WI 53092-2649

February 9, 2021

Attention: Alice Egan Remediation and Redevelopment Program Wisconsin Department of Natural Resources Southeast Region Office 2300 North Martin Luther King Drive Milwaukee, WI 53212

Dear Ms. Egan,

Reference: Historical Site Operations and PFAS Concern Summary Letter; Former Niphos Coatings Inc, 308 & 310 Oak Street, Slinger, WI; BRRTS Activity #02-67-561163, FID #267069880; Stantec Project #: 193705875

A reminder letter was submitted to Washington County on August 17, 2020 for the evaluation of emerging contaminants in site investigation work at the Former Niphos Coatings Inc. (Niphos) property. This letter is intended to summarize an evaluation of the potential use of perfluoroalkyl and polyfluoroalkyl substances (PFAS) associated with historical operations at the Niphos property located at 308 & 310 Oak Street, Village of Slinger (the "Village"), Wisconsin (the "Property").

The Property is 0.32 acres in area and is assigned parcel #V5-0081. The parcel contains two unoccupied buildings: (a) a two-story main building with a footprint of approximately 4,700 square feet on the northeast side of the lot and assigned the address of 308 Oak Street; and (b) a one-story building with a footprint of approximately 1,525 square feet, constructed of concrete blocks, and located along the rear (southwest side) of the Property and assigned an address of 310 Oak Street. Surrounding land use is a mix of vacant, light industrial, and residential properties. See **Figure 1** and **Figure 2** for Property location and detailed Property layout map.

Historical Site Operations

Use of the Property for industrial purposes dates back at least 140 years, where there are records of a watch and jewelry factory (1875-1894) having been constructed on the Property. Subsequent uses included a cigar factory and a pipe organ factory (1894-1944). Beginning in 1982, the Property was occupied by Niphos Coatings, Inc. and used for electroless nickel plating operations. The business was sold in 2006 and reportedly continued operations through October 2010. An inspection conducted by the Wisconsin Department of Natural Resources (WDNR) and Village on August 20, 2012 led to the discovery of large volumes of hazardous materials stored in the main building which led to a removal action being undertaken by United Stated Environmental Protection Agency (EPA) during September-October 2012. At the time of the inspection, the building was estimated to contain: 750 pounds (lbs) of copper cyanide, 27,598 lbs of nickel sulfate, 4,198 lbs of nitric acid, 3,500 lbs of sodium cyanide, and an unspecified quantity of hydrochloric acid and other chemicals which were ultimately removed during the removal action (EPA, 2012). A summary of the Drum, Vat, Tanks Inventory and Small Container Inventory completed by the EPA is provided on **Table 1** and **Table 2**, respectively.

PFAS Use Evaluation

PFAS source evaluation relating to historical operations at the Property is based upon guidance provided by the WDNR in the RR-01 publication (WDNR, 2019) and also guidance provided by the Interstate Technology Regulatory Council (ITRC) in their report entitled "Per- and Polyfluoroalkyl Substances (PFAS)" (ITRC, 2020).

PFAS and perfluorooctanesulfonic acid (PFOS) in particular, were used as surfactants to reduce the surface tension of the electrolyte solution (reduce bubbles) and suppress air emissions of toxic metal fumes (ITRC, 2020). Therefore, the use of PFAS at plating facilities can result in high concentration wastewater discharges (USEPA 2009) and air emissions.

According to available historical records and analytical data, electroless nickel plating was the primary focus of this plating operation between 1982 and 2010. According to an article published by the National Association for Surface Finishing (NASF, 2019), some fluorinated polymers may have been used in electroless nickel plating (particularly polytetrafluoroethylene). However, because these polymers are generally considered



February 9, 2021 Page 2 of 3

Reference: Historical Site Operations and PFAS Summary Letter; Former Niphos Coatings Inc. Property

nontoxic and biologically inactive, the primary concern related to PFAS in the metal plating industry is on the 8-carbon non-polymer PFAS molecules more commonly used in chromium plating (e.g. PFOS).

The former Niphos facility was a small nickel-plating operation. Nickel concentrations were detected in the soil above the WDNR groundwater pathway concern concentrations, but not measured in the groundwater above WDNR standards during site investigation efforts. The primary contaminant concerns measured on the Property are the arsenic/lead concentrations detected in the soil and arsenic in groundwater above WDNR standards, but at relatively low concentrations. (**Figure 3** and **Figure 4**, respectively; Stantec, 2019 & 2020). Further, it is unknown if the detected metals are a result of a release of plating solutions or some other source. It is likely that any PFAS releases would either be associated with spills of solutions/wastewater to the subsurface or atmospheric deposition (ITRC, 2020). However, the spatial distribution of heavy metals impacts in soil is not consistent with known trench drains/wastewater treatment locations (i.e. unlikely a result of a spill) and the impacts are below asphalt/concrete (i.e. unlikely atmospheric deposition). Given the limited nature of metal contamination and the limited capacity of historical operations, further investigation for the presence of PFAS does not appear warranted. Stantec requests a written response from the WDNR which concurs with these findings upon closure.

Regards,

STANTEC CONSULTING SERVICES INC.

v Scoss

Erin Gross, PG Staff Geologist Phone: (608) 628-6278 Fax: (262) 241-8222 Erin.Gross@stantec.com

Richard Binder, PG, CPG Principal Phone: (262) 422-0764 Fax: (262) 241-8222 Rick.Binder@stantec.com

Attachments:

- Figure 1 Location Map Figure 2 – Detailed Site Map Figure 3 – Soil Contamination Map Figure 4 – Groundwater Isoconcentration Table 1 – Drum, Vat, Tank Inventory and HAZCAT Results
 - Table 2 Small Container Inventory and HAZCAT Results

REFERENCES

EPA, 1995 (August), "List of Large Quantity Generators in the United States: The National Biennial RCRA Hazardous Waste Report (Based on 1993 Data)", https://nepis.epa.gov/Exe/ZyPDF.cgi/10000WNF.PDF?Dockey=10000WNF.PDF

EPA, 2009. "PFOS Chromium Electroplater Study." US EPA – Region 5, Chicago, IL, https://www.in.gov/idem/ctap/files/plating_chromium_pfos_study.pdf

EPA, 2012, "Niphos, Slinger, WI – Region V", Site Contact: <u>Jaime Brown</u>, EPA On-Scene Coordinator, <u>https://response.epa.gov/niphos</u>



February 9, 2021 Page 3 of 3

Reference: Historical Site Operations and PFAS Summary Letter; Former Niphos Coatings Inc. Property

ITRC, 2020 (September), "Per- and Polyfluoroalkyl Substances (PFAS)."

NASF, 2019 (March), "Per- and Polyfluoroalkyl Substances: PFAS – Background Information", https://nasf.org/wp-content/uploads/2019/04/Background-Information-on-PFAS.pdf

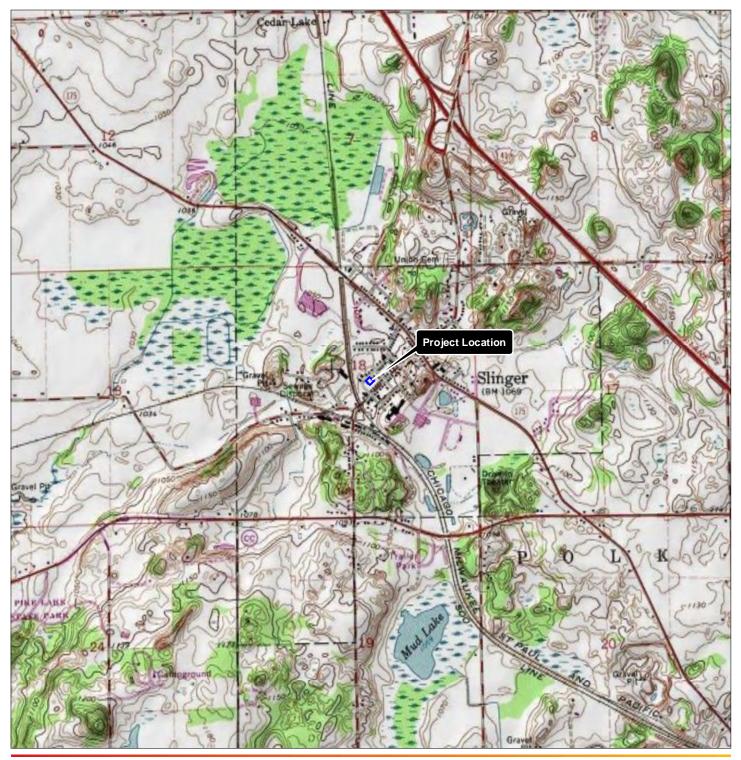
Stantec, 2019 (July 8), "Supplemental Site Investigation Report, Niphos Coatings Inc. (Former), 308-310 Oak Street, Slinger, Wisconsin 53086."

Stantec, 2020 (August 12), "Supplemental Case Closure Activities, Niphos Coatings Inc. (Former), 308-310 Oak Street, Slinger, Wisconsin 53086."

WDNR, 2019 (September), "Site Investigation Scoping: Identifying Contaminants of Concern, Wis. Admin. Code § NR 716.07."



FIGURES





Legend Property Boundary

Notes Notes 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Data Sources Include: Stantec 3. Background: 7.5' Topographic Quadrangle

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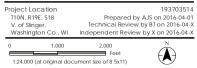
Figure No. **1** Title

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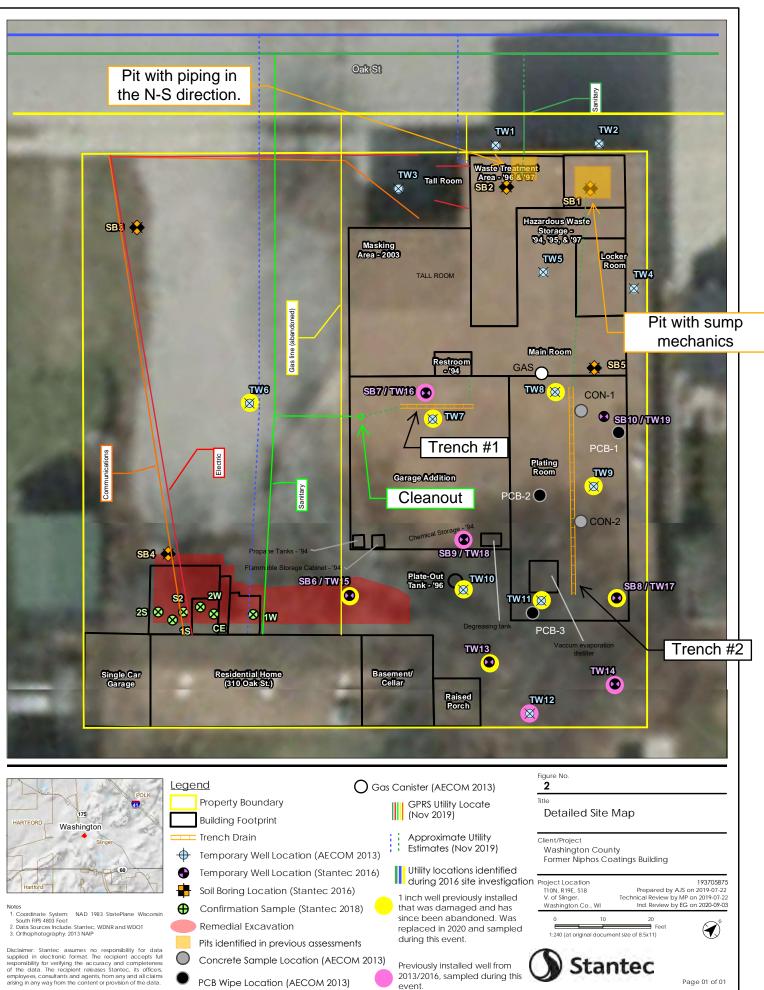
Location Map

Client/Project Washington County Former Niphos Coatings Building

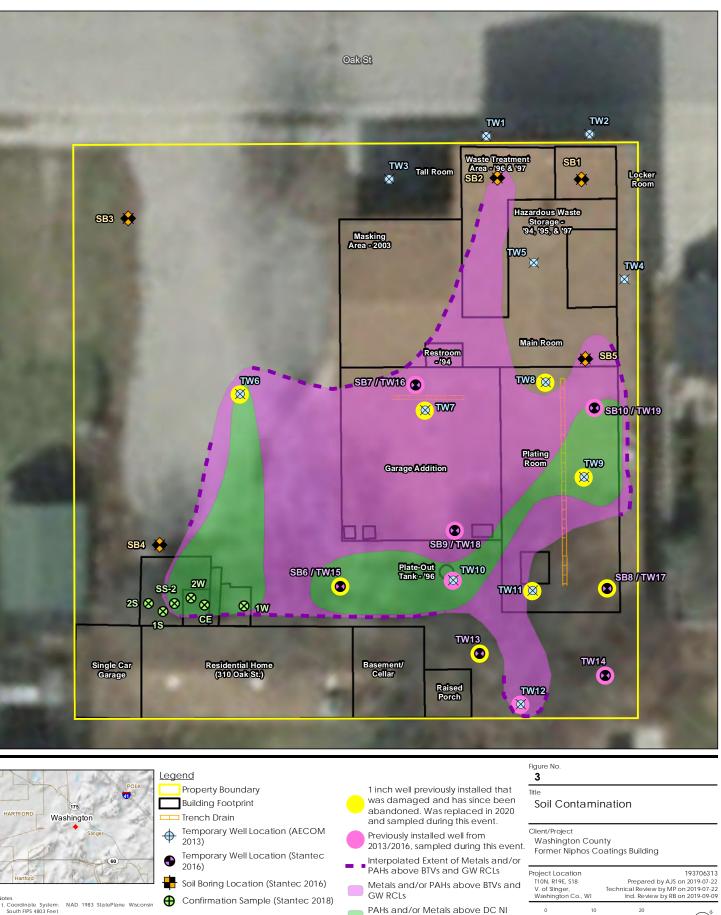
Stantec







event.



2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: Washington Co. 2015

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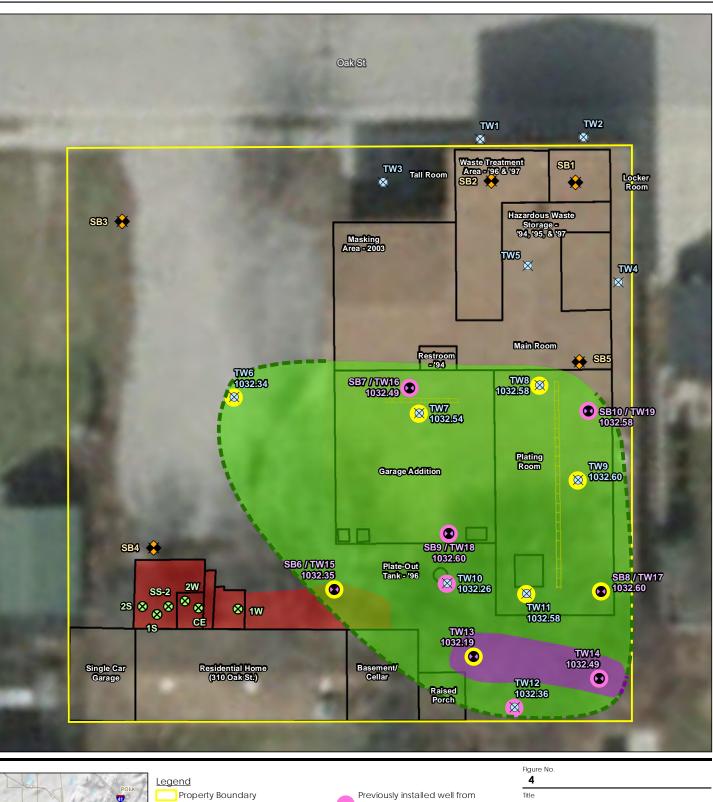
BTVs = Background Threshold Values DC = Direct Contact GW = Soil to Groundwater Pathway NI = Non-Industrial

PAHs = Polycyclic Aromatic Hydrocarbons RCLs = Residual Contaminant Levels

RCLs







1 175 Washington \oplus

1. Coordinate System: South FIPS 4803 Feet NAD 1983 StatePlane Wisc

2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: Washington Co. 2015

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Building Footprint Trench Drain

- Temporary Well Location (AECOM 2013)
- Temporary Well Location (Stantec • 2016)
- Soil Boring Location (Stantec 2016)
- Ð Confirmation Sample (Stantec 2018) 1 inch well previously installed that was damaged and has since been abandoned. Was replaced in 2020 and sampled during this event.
- 2013/2016, sampled during this event.
- Interpolated Extent of Arsenic ES Exceedance
- Interpolated Extent of Arsenic PAL Exceedance
- Approximate Extent of Arsenic ES Exceedance
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- PAL = Preventative Action Limit ES = Enforcement Standard
- Groundwater Isoconcentration Client/Project Washington County Former Niphos Coatings Building Project Location T10N, R19E, S18 V. of Slinger, Washington Co., 193706313 Prepared by MZ on 2020-07-15 nical Review by AS on 2020-07-15 Ind. Review by EG on 2020-07-31 Tech



Page 01 of 01



TABLES

		Size								
ID	Dimensions		Make	Label/Description	Fullness	Volume	Waste Stream	Matrix	рН	Cyanide Test
33	-		Poly Drum	Sulfuric Acid	1	35	Acid	Liquid	0	*Reaction with Water
44	1'x'1'x4'		Poly Vat	Unlabeled	0.25		Acid	Liquid	0	
49	1.5'x2'x3'	67	Poly Vat	Nickel Solution, Acidic	0.75	50.25	Acid	Liquid	0	
58	2'x3'x3'	135	Poly Vat	Unlabeled	1	135	Acid	Liquid	0	
86	-	55	Poly Drum	Hydrochloric Acid	1	55	Acid	Liquid	0	
5	-	55	Poly Drum	Hydrochloric Acid	1	55	Acid	Liquid	1	
6	-	55	Poly Drum	Hydrochloric Acid	0.5	27.5	Acid	Liquid	1	
53		55	Poly Drum	Enplate Nickel 431A	1	55	Acid	Liquid	1	
54		55	Poly Drum	Electroless Nickel Plating	1	55	Acid	Liquid	1	
60	2'x3'x3'	135	Poly Vat	Acid-Pickle	1	135	Acid	Liquid	1	
62	2'x3'x3'	135	Poly Vat	Unlabeled	1	135	Acid	Liquid	1	
68	2'x3'x3'	135	Poly Vat	Nitric + Water	0.66		Acid	Liquid	1	
93	-	55	Poly Drum	Hydrochloric Acid	0.5	27.5	Acid	Liquid	1	
94	-	55	Poly Drum	Hydrochloric Acid	0.5	27.5	Acid	Liquid	1	
95	-	55	Poly Drum	Actane 70	1	55	Acid	Liquid	1	
97	-	55	Poly Drum	Hydrochloric Acid	1	55	Acid	Liquid	1	
98	-	55	Poly Drum	Acid, Contains Nickel	1	55	Acid	Liquid	1	
100	-	15	Poly Drum	EN Plate AL-100A	1	15	Base	Liquid	12	Negative
122	-	200	Poly Tank	Nitric Acid	0.66	132	Acid	Liquid	1	
1	-	35	Poly Drum	Unlabeled	0.5	17.5	Acid	Liquid	2	
55	6'x2'x2'	180	Poly Vat	Unlabeled	1	180	Acid	Solid	2	
105	-	25	Fiber Drum	Actane 70, Acid Salts	1	25	Acid	Solid	3	
133	-	14	Stainless Steel	Nitric Acid	0.125	1.75	Acid	Liquid	-	
117	-	35	Steel Drum	Unlabeled	1	35	Base	Liquid	10	Negative
81	-	55	Poly Drum	ELNIC 101	0.5	27.5	Base	Liquid	11	Negative
8	-	35	Poly Drum	Potasium carbonate	0.125	4.375	Base	Liquid	12	Negative
61	2'x3'x3'	135	Poly Vat	Water Rinse	1	135	Base	Liquid	12	Negative
63	2'x3'x3'	135	Poly Vat	Unlabeled	1	135	Base	Liquid	12	Negative
70	-	55	Poly Drum	Alkaline Soap Cleaner	1	55	Base	Liquid	12	Negative
104	-	30	Poly Drum	Alkaline Liquid N.O.S.	0.5		Base	Liquid	12	Negative
106	-	55	Poly Drum	Sodium Hypochlorite	0.75	41.25	Base	Liquid	12	Negative
101	-	55	Poly Drum	Sodium Hydroxide Solution	0.33			Liquid	14	Negative
84	-	55	Poly Drum	Cyanide	1		Cyanide	Liquid	11	Positive
113	-	55	Poly Drum	Copper Solution Cyanide	1	55	Cyanide	Liquid	11	Positive
				Aluminum Immersion Salt						
109	-	30	Fiber container	(Contains CN)	0.75	22.5	Cyanide	Solid	12	Positive
				Aluminum Immersion Salt						
110	-	30	Fiber container	(Contains CN)	1	30	Cyanide	Solid	12	Positive

112	-	25	Steel Drum	Copper Cyanide Powder	1	25	Cyanide	Solid	12	Positive
							,			*No sample, Based on
50	1.5'x2'x3'	67	Poly Vat	Copper Strike Rinse, Cyanide	1	67	Cyanide	Liquid	-	label
83	-	55	Poly Drum	Nichem 2100D	1	55	Cyanide	Liquid	11	Positive
82	-	55	Poly Drum	Nichem 2100B1	1	55	Cyanide	Liquid	12	Positive
111	-	35	Steel Drum	Sodium Cyanide	0.5	17.5	Cyanide	Solid	14	Positive
99	-	55	Steel Drum	Acetone	1	55	Flammable	Liquid	-	
119	-	55	Poly Drum	Unlabeled	0.66	36.3	Flammable	Liquid	-	
120	-	55	Poly Drum	Unlabeled	1	55	Flammable	Liquid	-	
124	-	175	Poly Tank	Unlabeled	1	175	Neutral	Liquid	3.5	
125	-	55	Poly Drum	Plating Bath Holding Tank	0.66	36.3	Neutral	Liquid	3.5	
123	-	175	Poly Tank	En-Bath, Acidic	0.875	153.125	Neutral	Liquid	4	
7	-	55	Poly Drum	EN Evaporation Tank	1	55	Neutral	Liquid	5	
14	-	55	Poly Drum	806 Bath, Contains Nickel	1	55	Neutral	Liquid	5	
			, í							
18	-	55	Poly Drum	806 Bath	1	55	Neutral	Liquid	5	
21	-		Poly Drum	806 Bath	0.5		Neutral	Liquid	5	
24	-		Poly Drum	Enplate 431 Bath	0.25		Neutral	Liquid	5	
29	-		Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	5	
31	-		Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	5	
37	-		Poly Drum	Enplate EN-425B	- 1		Neutral	Liquid	5	
40	-		Poly Drum	Enplate EN-431C	0.25		Neutral	Liquid	5	
41	-		Poly Drum	Unlabeled	0.125		Neutral	Liquid	5	
47		55	Poly Drum	Enplate NI-431E	1	55	Neutral	Liquid	5	
48			Poly Drum	Unlabeled	1	55	Neutral	Liquid	5	
52		55	Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	5	
72	2'x3'x3'	135	Poly Vat	EN Salt Tank	0.1	13.5	Neutral	Solid	5	
73	2'x3'x2.5'	113	Poly Vat	EN Salt Bath	0.1	11.3	Neutral	Solid	5	
129	2'x3'x3'	135	Poly Vat	Unlabeled	0.66	89.1	Neutral	Liquid	5	
3	-	55	Poly Drum	Stabuff 440	0.5	27.5	Neutral	Liquid	6	
9	2'x2'x3'	90	Poly Vat	Unlabeled	1	89.76624	Neutral	Solid	6	
10	-		Poly Drum	Nichem 2100 D	1		Neutral	Liquid	6	
20	-	55	Poly Drum	806 Bath	0.5	27.5	Neutral	Liquid	6	
22	-	55	Poly Drum	Enplate NI-431A	1	55	Neutral	Liquid	6	
25	-	55	Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	6	
26	-	55	Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	6	
28	-		Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	6	
30	-	55	Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	6	
32	-		Poly Drum	Enplate 431 Bath	1		Neutral	Liquid	6	
34	-	55	Poly Drum	Enplate EN-806C	0.25	13.75	Neutral	Liquid	6	

35 -	55 Poly Drum	Enplate EN-425C	1	55	Neutral	Liquid	6	
- 36	55 Poly Drum	Enplate EN-425C	0.5		Neutral	Liquid	6	
- 38	55 Poly Drum	Enplate EN-425C	0.5	27.5	Neutral	Liquid	6	
42 -	55 Poly Drum	Enplate 431 Bath	0.5		Neutral	Liquid	6	
- 43	55 Poly Drum	Nichem 2100D	0.25		Neutral	Liquid	6	
46	55 Poly Drum	431 Bath	1		Neutral	Liquid	6	
51	55 Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	6	
57 2'x3'x3'	135 Poly Vat	Unlabeled	1	135	Neutral	Liquid	6	
59 2'x2'x2'	60 Poly Vat	Unlabeled	0.33		Neutral	Liquid	6	
64 2'x4'x3'	180 Poly Vat	Rinse Water	0.5	90	Neutral	Liquid	6	
65 2'x4'x3'	180 Poly Vat	Rinse Water	1	180	Neutral	Liquid	6	
66 0.5'x1.5'x2'	12 Plastic Garbage Can	Unlabeled	0.5		Neutral	Solid	6	
- 69	55 Poly Drum	Non-RCRA Regulated Waste	1	55	Neutral	Liquid	6	
- 74	55 Poly Drum	EN Evaporation Material	1	55	Neutral	Liquid	6	
75 2'x3'x3'	135 Poly Vat	EN Bath Salt	0.6	81	Neutral	Liquid	6	
76 2'x3'x3'	135 Poly Vat	EN	0.1	13.5	Neutral	Liquid	6	
77 -	55 Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	6	
- 79	55 Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	6	
- 80	55 Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	6	
87 -	55 Poly Drum	EN Evaporation Tank	0.5	27.5	Neutral	Liquid	6	
- 89	55 Poly Drum	EN Evaporation Tank	1	55	Neutral	Liquid	6	
90 -	55 Poly Drum	EN Evaporation Tank	1	55	Neutral	Liquid	6	
91 -	55 Poly Drum	EN Evaporation Tank	1	55	Neutral	Liquid	6	
92 -	55 Poly Drum	EN Evaporation Tank	1	55	Neutral	Liquid	6	
96 -	55 Poly Drum	Acid, Contains Nickel	1	55	Neutral	Liquid	6	
- 103	30 Fiber Drum	ARP60	1	30	Neutral	Liquid	6	
- 115	55 Poly Drum	Nichem 2100 B1	0.75	41.25	Neutral	Liquid	6	
- 116	100 Poly	Unlabeled	0.33		Neutral	Liquid	6	
- 126	175 Poly Tank	DI Water	0.5	87.5	Neutral	Liquid	6	
- 127	175 Poly Tank	DI Water	0.5		Neutral	Liquid	6	
2 -	55 Poly Drum	Sodium Hypo	0.5		Neutral	Liquid	7	
- 12	55 Poly Drum	Nichem 2100 A	1		Neutral	Liquid	7	
- 13	55 Poly Drum	431 Bath, Contains Nickel	1		Neutral	Liquid	7	
- 15	55 Poly Drum	806 Bath, Contains Nickel	1	55	Neutral	Liquid	7	
17 3'x5'x3"	337 Poly Vat	Enbox 214 Rinse	1	<u>3</u> 37	Neutral	Liquid	7	
- 19	55 Poly Drum	806 Bath	0.5	27.5	Neutral	Liquid	7	
56 2'x3'x3'	135 Poly Vat	Unlabeled	1		Neutral	Liquid	7	
- 71	15 3 5-gal buckets in tank	Unlabeled	1	15	Neutral	Solid	7	

78	-	55	Poly Drum	Evaporate Tank Material	1	55	Neutral	Liquid	7	
85	-	55	Steel Drum	Nickel Bath Salts	1	55	Neutral	Solid	7	
88	-	55	Poly Drum	Nickel Chloride	0.75	41.25	Neutral	Liquid	7	
107	-	55	Poly Drum	EN-335C	1	55	Neutral	Liquid	7	
108	-	55	Poly Drum	EN-335B	1	55	Neutral	Liquid	7	
114	-	55	Poly Drum	Nickel Chloride	0.5	27.5	Neutral	Liquid	7	
131	6'deep x 3'radius	1272	In-ground Tank	Unlabeled	0.75	954	Neutral	Liquid	7	
132	-	10	Plastic Shop Vac	Unlabeled	0.5		Neutral	Liquid	7	
39	-	55	Poly Drum	Enplate EN-806C	1	55	Neutral	Liquid	7.5	
67	2'x3'x3'	135	Poly Vat	Unlabeled	0.5	67.5	Neutral	Solid	8	
102	-	55	Fiber Drum	Metex Nickel Stripper	1	55	Neutral	Liquid	8	
121	-	55	Poly Drum	Nickel Strip	1	55	Neutral	Liquid	8	
130	-	350	Poly Tank	Batch Treatment Tank #2	0.875	306.25	Neutral	Liquid	8	
4	-	55	Poly Drum	Unlabeled	0.5		Neutral	Liquid	7	
11	-	55	Poly Drum	Nichem 2100 D	0.1	5.5	NO SAMPLE			
16		55	Poly Drum	Unlabeled	0.1	5.5	NO SAMPLE			
23	-	55	Poly Drum	Enplate NI-431C	1		NO SAMPLE			
27	-	55	Poly Drum	Enplate 431 Bath	0.1	5.5	NO SAMPLE			
45		55	Poly Drum	Nichem 2100A Plus	1	55	NO SAMPLE			
118	-	55	Poly Drum	Unlabeled	0.33	18.15	NO SAMPLE			
128	Does Not Exist						NO SAMPLE			
										Small Containers Bulked
134		55	Steel Drum	Bulked Flamms	1	55	Flammable	Liquid	7	into Drum
										Small Containers Bulked
135		55	Poly Drum	Bulked Acids	1	55	Acid	Liquid	1	into Drum
										Tank to be used as bulking
136		1,500	Poly Tank	Water Tank	0.1	150	Neutral	Liquid	7	storage

1 ft³ = 7.48052 gal

Notes:

		Size					Waste			Cyanide	
ID	Dimension	(gal)	Make	Label/Description	Fullness	Volume	Stream	Matrix	рН	Test	Notes
17	-	5	Poly	Nichem 2100 A Plus	0.50	2.5	Acid	Liquid	2		
19	-	5	Poly	Electroless Ni Plating	1.00	5	Acid	Liquid	0		
31	-	5	Poly	EN Plate 806A	0.25	1.25	Acid	Liquid	1		
35	-	5	Poly	Unlabeled	1.00	5	Acid	Liquid	0		
36	-	5	Poly	Unlabeled	1.00	5	Acid	Liquid	0		
37	-	5	Poly	Unlabeled	1.00	5	Acid	Liquid	1		
42	-	5	Poly	EN Prep 8878	1.00	5	Acid	Liquid	1		
											HCL-Confirmed
											with Draeger and
48	-	5	Poly	Unlabeled	1.00	5	Acid	Liquid	1		Haz Cat
50	-	5	Poly	Actane E-90	1.00	5	Acid	Liquid	0		
55	-	5	Poly	Actane	1.00	5	Acid	Liquid	0		
59	-	5	Poly	E-Prep 221	0.75	3.75	Acid	Liquid	0		
77	-	5	Poly	Nickel Solution	0.75	3.75	Acid	Solid	2.5		
93	-	10	Fiber	Nickel Acid	1.00	10	Acid	Solid	0		
94	-	5		Unlabeled	0.50	2.5	Acid	Liquid	1		
96	-	5	Poly	Hydrogen Fluoride	1.00	5	Acid	Liquid	0		*Special overpack
105	-	5	Poly	Actane	0.50	2.5	Acid	Liquid	0		
124	-	10	Poly	Fluoboric Acid	0.25	2.5	Acid	Liquid	1		
128	-	5	Poly	Nickel Strip	0.25	1.25	Acid	Liquid	1		
129	-	5	Poly	Unlabeled	1.00	5	Acid	Liquid	1		
131	-	5	Poly	Hydrochloric Acid	0.25	1.25	Acid	Liquid	1		
132	-	5	Poly	EN Plate 104A	1.00	5	Acid	Liquid	1		
138	-	1	Poly	Unlabeled	0.25	0.25	Acid	Liquid	1		
141	-	0.25	Spray Bottle	Unlabeled	0.50	0.125	Acid	Liquid	2		
143	-	2	Plastic	Sensitizer, acid	1.00	2	Acid	Liquid	1		
144	-	1	Plastic	Unlabeled	0.33	0.33	Acid	Liquid	1		
145	-	0.5	Plastic	Unlabeled	0.13	0.0625	Acid	Liquid	1		
146	-	1	Plastic	Unlabeled	0.13	0.125	Acid	Liquid	1		
147	-	1	Plastic	Activator	1.00	1	Acid	Liquid	1		
148	-	1	Plastic	Fluoboric Acid	0.25	0.25	Acid	Liquid	1		

149	-	5	Poly	Unlabeled	0.25	1.25	Acid	Liquid	1		
150	2'x1'x2'		Poly Vat	Unlabeled	0.75	0	Acid	Liquid	1		
152	-	5	Poly	Tin Mac Starter	1.00	5	Acid	Liquid	1		
154	-	1	Glass	Unlabeled	1.00	1	Acid	Liquid	0		
156	-	1	Glass	Unlabeled	0.50	0.5	Acid	Liquid	1		
157	-	0.25	Glass	Unlabeled	0.50	0.125	Acid	Liquid	1.5		
160	-	3	Steel	Iridite	0.25	0.75	Acid	Solid	2		Lab Pack
161	-	30	Poly	lsoprep	1.00	30	Acid	Liquid	1		
162	-	20	Poly	EN Salt Tank	1.00	20	Acid	Liquid	1		
163	-	1	Poly	Hydrochloric Acid	0.75	0.75	Acid	Liquid	1		
168	1'x2'x1'	15	Poly Tote	Unlabeled	1.00	15	Acid	Liquid	1		
169	2'x3'x0.5'	22	Poly Pan	Unlabeled	0.10	2.2	Acid	Liquid	1		
170	-	5	Plastic	Unlabeled	0.75	3.75	Acid	Liquid	1		
171	-	5	Poly	Enthone 796M	0.88	4.375	Acid	Liquid	1.5		
172	1'x2'x2'	30	Poly Vat	Unlabeled	0.33	9.9	Acid	Liquid	1		
173	-	1	Plastic	Bright Dip	0.50	0.5	Acid	Liquid	1		
174	-	1	Plastic	Unlabeled	0.13	0.125	Acid	Liquid	2.5		
175	-	1	Plastic	Unlabeled	0.50	0.5	Acid	Liquid	0		
133 (2)	0.5'x2'x2'	15	Poly Vat	Unlabeled	0.10	1.5	Acid	Liquid	2		
135 (1)	-	2	Poly	Tin-Lead Stripper	0.33	0.66	Acid	Liquid	1		
15	-	5	Poly	Unlabeled	1.00	5	Base	Liquid	11	Ν	
33	-	5	Poly	Unlabeled	0.25	1.25	Base	Liquid	11	Ν	
40	-	5	Poly	Unlabeled	1.00	5	Base	Liquid	14	Ν	
62	-	5	Poly	Current Clean	1.00	5	Base	Solid	12	Ν	
63	-	5	Poly	Current Clean	1.00	5	Base	Solid	12	Ν	
65	-		Steel	Metex Ni Strip	1.00	5	Base	Liquid	10	Ν	
66	-		Poly	Hooker Wax Stripper	1.00		Base	Liquid	11	Ν	
74		5	Poly	Nickel Strip	0.10	0.5	Base	Liquid	12	Ν	
79	-		Poly	Unlabeled	0.33		Base	Liquid	11	Ν	
80	-	20	Fiber	N-Bond NE-7	1.00	20	Base	Solid	11	Ν	
90	-	20	Poly	EN-Plate AL100B	1.00	20	Base	Liquid	12	Ν	
91	-		Poly	EN-Plate AL100B	0.25		Base	Liquid	12	Ν	
92	-		Poly	EN-Plate AL100B	1.00	20	Base	Liquid	12	Ν	
95	-	5	Poly	MCM Liquid	1.00	5	Base	Liquid	13	Ν	

99	-	5	Fiber Box	EN Plate	1.00	5	Base	Liquid	11	N	
100	-	5	Fiber Box	EN Plate 474	1.00	5	Base	Liquid	11	Ν	
106	-	5	Poly	Par X	0.50	2.5	Base	Liquid	12	Ν	
109	-	5	Poly	Unlabeled	0.50	2.5	Base	Liquid	12	Ν	
111	-	1	Steel	Oxidizer/Corrosive	1.00	1	Base	Solid	13	N	Lab Pack
123	-	5	Poly	Nickel Strip	1.00	5	Base	Liquid	13	Ν	
178	-	0.125	Plastic	Unlabeled	0.66	0.0825	Base	Liquid	11	-	
76	-	5	Poly	Latex Cyanide	0.50	2.5	Cyanide	Solid	14	Y	
81	-	20	Steel	N DOX	0.25	5	Cyanide	Solid	11	Y	
83	-	5	Steel	Pottassium Cyanide	1.00	5	Cyanide	Liquid	-		*Based on label, no sample
84	-	5	Steel	Pottassium Cyanide	0.10	0.5	Cyanide	Liquid			*Based on label, no sample
97	-	20	Steel	Actane 85	1.00	20	Cyanide	Solid	-		Over Pack*Based on label, no sample
72	-	5	Steel	EN Strip 79B	0.25	1.25	Flamm Solid	Solid	8		Lab Pack
2	-	5	Poly	Rust Beat	0.10	0.5	Flammable	Liquid	-		
4	-	5	Steel	NTECH RPO22	1.00	5	Flammable	Liquid	-		
5	-	5	Poly bucket	A32 Hydraulic	0.25	1.25	Flammable	Liquid	-		
7	-	5	Poly	Resolve 75	1.00	5	Flammable	Liquid	-		
10	-	5	Poly	Protek	1.00	5	Flammable	Liquid	-		
39	-	5	Poly	Unlabeled	1.00	5	Flammable	Liquid	-		
49	-	5	Poly	Drain Oil	0.25	1.25	Flammable	Liquid	-		
70	-	5	Steel	Unlabeled	1.00	5	Flammable	Liquid	-		
107	-	5	Steel	Unlabeled	1.00	5	Flammable	Liquid			
112	-	10	Steel	Methylene Chloride	0.25	2.5	Flammable	Liquid			
113	-	5	Steel	Methypyrolidine	0.25	1.25	Flammable	Liquid			
114	-	5	Steel	Flammable	1.00	5	Flammable	Liquid			
115	-	5	Steel	Methypyrolidine	1.00	5	Flammable	Liquid			
116	-	5	Steel	Methylene Chloride	1.00	5	Flammable	Liquid			

118	-	5	Steel	Unlabeled	0.75	3.75	Flammable	Liquid			
121	-	5	Steel	EN Plate	1.00	5	Flammable	Liquid			
122	-	5	Steel	Methypyrolidine	1.00	5	Flammable	Liquid			
167	-	5	Poly	Drain Oil	1.00	5	Flammable	Liquid	-		
133 (1)	-			Unlabeled		0	Flammable				
1	-	30	Steel	Unlabeled	0.50	15	Neutral	Solid	8		
3	-	5	Poly	Niklad 767B	0.75	3.75	Neutral	Liquid	5.5		
6	-	5	Poly	425C	1.00	5	Neutral	Liquid	6		
8	-	5	Poly	797H	1.00	5	Neutral	Liquid	5		
9	-	5	Poly	Electroless Ni Plating	1.00	5	Neutral	Liquid	5		
11	-	5	Poly	797H	1.00	5	Neutral	Liquid	5		
12	-	5	Poly	797H	1.00	5	Neutral	Liquid	6		
13	-	5	Poly	Unlabeled	1.00	5	Neutral	Liquid	5		
14	-	5	Poly	Unlabeled	0.10	0.5	Neutral	Liquid	9	Ν	
16	-		Poly	Electroless Ni Plating	1.00	5	Neutral	Liquid	4		
18	-	5	Poly	EN Plate 806B	1.00	5	Neutral	Liquid	5		
20	-	5	Poly	Unlabeled	1.00	5	Neutral	Liquid	8		
21	-	5	Poly	EN Plate 806C	0.50	2.5	Neutral	Liquid	8		
22	-	5	Poly	EN Plate 806D	0.10	0.5	Neutral	Liquid	6		
23	-	5	Poly	Electroless Ni Plating	1.00	5	Neutral	Liquid	5		
24	-	5	Poly	Electroless Ni Plating	0.50	2.5	Neutral	Liquid	5		
25	-		Poly	En Plate	0.75	3.75	Neutral	Liquid	6		
26	-		Poly	Unlabeled	0.75	3.75	Neutral	Liquid	8		
27	-	5	Poly	EN Plate	1.00		Neutral	Liquid	5		
28	-		Poly	EN Plate	1.00		Neutral	Liquid	7		
29	-		Poly	EN Plate	0.25	1.25	Neutral	Liquid	5		
30	-		Poly	EN Plate	1.00		Neutral	Liquid	5		
32	-		Poly	425 C	1.00		Neutral	Liquid	6		
34	-		Poly	Unlabeled	0.50		Neutral	Solid	7		
38	-		Poly	Unlabeled	1.00		Neutral	Liquid	6		
41	-		Poly	EN Strip 110C	1.00		Neutral	Liquid	8		
43	-		Poly	EN Strip TC106	1.00		Neutral	Liquid	7		
44	-		Poly	EN Plate 100C	1.00		Neutral	Liquid	5		
45	-	5	Poly	EN Plate 100C	1.00	5	Neutral	Liquid	5		

46	_	5	Poly	EN Plate 435 C	1.00	5	Neutral	Liquid	5	
40			Poly	EN Plate 435B	0.25		Neutral	Liquid	5	
51	-		Poly	EN Plate AC-100	1.00		Neutral	Liquid	5.5	
52	-		Poly	EN Plate AC-100 EN Strip 1103	0.50		Neutral	Liquid	8	
52	-		Poly	Unlabeled	0.30		Neutral	Liquid	ہ 5	
54	-		Poly	EN Plate N-126	0.25		Neutral	-	5	
L	-		,					Liquid		
56 57	-		Fiber Box	Electroless Plating	1.00		Neutral	Liquid Solid	5	
	-		Poly	Unlabeled	1.00		Neutral		7	
58	-		Poly	EBONEL 280	0.25		Neutral	Solid	7	
60	-		Poly	Unlabeled	1.00		Neutral	Liquid	8	
61	-		Steel	Unlabeled	0.25		Neutral	Liquid	8	
64	-		Poly	NTEK Wax 114	1.00		Neutral	Liquid	7	Lab Pack
69	-		Poly	Nickel Stripper	1.00		Neutral	Liquid	7	
71	-		Poly	Niklad 1000	1.00		Neutral	Liquid	6	
73	-		Steel	EN Strip 110A	1.00		Neutral	Solid	7	
75	-		Poly	Electroless Ni Addition	0.33	1.65	Neutral	Liquid	6	
82	-	5	Poly	NiCl Solution	0.50	2.5	Neutral	Liquid	4.5	
85	-	5	Poly	423S	1.00	5	Neutral	Liquid	7	
										Had Reaction during benchmark-Lab
86	-	5	Poly	Clabrize Zinc	1.00	5	Neutral	Liquid	3.5	Pack
87	-	5	Poly	Niklad 100B	0.50	2.5	Neutral	Liquid	6	
88	-	5	Poly	Electrosolve	0.50	2.5	Neutral	Liquid	6	
										Lab Pack paint
89	-	5	Poly	Aqua Kote	0.25	1.25	Neutral	2 Phases	8	waste
98	-	5	Fiber Box	EN Plate 433M	0.25	1.25	Neutral	Liquid	4	
101	-	5	Fiber Box	426A	1.00		Neutral	Liquid	3.5	
102	-		Poly	Nickel	1.00		Neutral	Liquid	4	
103	-		Poly	Niklad	0.25		Neutral	Liquid	3.5	
104	-	5		PAU	1.00		Neutral	Liquid	6	
108	-		Poly	En Plate	0.50		Neutral	Solid	7	
110	-		Poly Tote	Unlabeled	0.25		Neutral	Liquid	8	
119	-		Steel	Unlabeled	0.50		Neutral	Liquid	7	

120	-	1	Steel	Unlabeled	0.50	0.5	Neutral	Liquid	6	
125	-	5	Poly	EN Plate 435B	0.50	2.5	Neutral	Liquid	4	
126	-	5	Poly	EN Plate 435C	0.50	2.5	Neutral	Liquid	4	
127	-	5	Poly	EN Plate 435C	1.00	5	Neutral	Liquid	4	
130	-	5	Poly	EN Plate 434B	1.00	5	Neutral	Liquid	4.5	
136	-	0.48	Plastic	Unlabeled	1.00	0.48	Neutral	Liquid	6	
139	-	1	Plastic	Unlabeled	1.00	1	Neutral	Liquid	6	
140	-	0.25	Spray Bottle	Unlabeled	0.50	0.125	Neutral	Liquid	6	
142	-	0.125	Mason Jar	Unlabeled	0.13	0.01563	Neutral	Liquid	4.5	
151	-	5	Poly	Tin Mac Replenisher	1.00	5	Neutral	Liquid	5	
153	-	1	Pot	Unlabeled	0.13	0.125	Neutral	Liquid	3.5	
155	-	1	Glass	Unlabeled	1.00	1	Neutral	Liquid	6	
158	-	0.125	Poly	Unlabeled	0.50	0.0625	Neutral	Liquid	7	
159	-	0.25	0.75	Unlabeled	0.75	0.1875	Neutral	Liquid	3.5	Lab Pack
164	-	5	Plastic	Unlabeled	1.00	5	Neutral	Liquid	7	
165	-	5	Plastic	Unlabeled	0.10	0.5	Neutral	Liquid	4	
166	-	5	Plastic	Unlabeled	1.00	5	Neutral	Liquid	8	
176	-	1	Plastic	Unlabeled	0.13	0.125	Neutral	Liquid	6	
177	-	0.25	Plastic	Unlabeled	0.75	0.1875	Neutral	Liquid	6	Lab Pack
180	-	0.125		Unlabeled	0.66	0.0825	Neutral	Liquid	8	
134 (1)	-	1	Glass Container	Unlabeled	0.10	0.1	Neutral	Liquid	7	
134 (2)	-	5	Poly	Catalyst	0.25	1.25	Neutral	Liquid	8	
135 (2)	-	5	Poly	Au Cover	0.75	3.75	Neutral	Liquid	6	
67	-	5	Poly	Acra Fas Pic	0.25	1.25	NO SAMPLE			
68	-		Steel	Unlabeled	0.10		NO SAMPLE			
78	-		Poly	Degreaser	1.00		NO SAMPLE			Lab Pack
117	-	3	Steel	Methylene Chloride	1.00		NO SAMPLE	Liquid		
137	-	2	Steel	Methylene Chloride	0.50	1	NO SAMPLE			
179	-	0.001	Glass	Unlabeled	0.50	0.0005	NO SAMPLE			

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT C.2

INVESTIGATIVE WASTE

Soil disposal forms from June 2018 and December 2018 remedial excavations.

Piea	ac pri	int or type. (Form desig	ned for use on elite (12-pitch)	typewnter.)		F	DI	I 4 1414- **	adding Mound	
1		ON-HAZARDOUS ASTE MANIFEST	1. Generator ID Number		1 21	Emergency Respons 82-255-4468	1			06-03
	V 4	enerator's Name and Mailir Washington Count 132 E. Washingtor	Ŵ n St.		Ge	nerator's Site Addres	s (if different th	an mailing addre	get,	WI
	Gene	Nest Bend VM 53 erator's Phone: 282	355-4445							-
	1.	ansporter 1 Company Nam	^{ne} vironmental Constru	rtion Inc					/	1,17259
		ansporter 2 Company Nam				10		U.S. EPA ID		10
	V V N	ssignated Facility Name an AM Orchard Ridg Av124 N8925 Boui Aenomonee Falls	e RDF ndary Rd WI 53051					U.S. EPA ID	Number	V
	Facili 9a.	ity's Phone: 282 26 9b. U.S. DOT Descripti	5 <u>3 - 8820</u> ion (including Proper Shipping Nam	e, Hazard Class, ID Number,		10. Conta	ainers	11. Total	12. Unit	
	HM	and Packing Group (if a	any))			No.	Туре	Quantity	Wt./Vol.	
GENERATOR -		¹ Construction &	Demolition Materials			001	DT	00020	т	
- GENEI		2.								
		3.								
	_	4			/					
	/					\square				
		Special Handling Instruction 1)	ns and Additional Information)				
		(
	14	GENEDATOD'S CEDTIE	CATION: I certity the materials de	escribed above on this manife	est are not subject	to federal regulations	for reporting p	roper disposal of	Hazardous Was	ste
		erator's/Offeror's Printed/Ty			Signat	the second se				Month Day Year
+	15. Ir	nternational Shipments	Import to U.S.	Г	Export from U.S.	Port of e	entry/exit:			
INT'L		sporter signature (for expo	orts only):				ving U.S.:			
RTER		ransporter Acknowledgmer sporter 1 Pinted/Typed Na			Signat	fre /	1.1.			Month Day Year
SPOF		14/es	Kyan		11	M.S.	41			5 22 18
TRANSPORTER	Trans	sporter 2 Printed/Typed Na	ame		Signa	are (/			Month Day Year
1		Discrepancy						-		
	17a.	Discrepancy Indication Sp	ace Quantity	Туре		Residue		Partial Re	ejection	L Full Rejection
- YTI	17b.	Alternate Facility (or Gene	rator)			Manifest Referen	ce Number:	U.S. EPA ID	Number	
FACI	Facili	ity's Phone:						1		
DESIGNATED FACILITY		Signature of Alternate Fac	ility (or Generator)							Month Day Year
DESIG										
1	18 0	Designated Eacility Owner	or Operator: Certification of receipt	of materials covered by the	manifest except as	noted in Item 172	6)		
		ed/Typed Name	or operation, detailoration of receipt	and a state of the	Signat		2	5		Month Day Year

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19355 Boundarv mee Falls, WI, 362) 253-8620 7 NORTH SHORE	53051		riginal icket# 164946	
7 NORTH SHORE	Carriar MODTLC			3
	Vehicle# 46 Container Driver Check# Billino # 0000 Gen EPA ID Grid		HGHORE ENV Volume	
Bound CH	berator IOFFMA3 JINDT		re 3 L	9780 1) 4380 1) 5380 1) 2.84
նեւ ՍՕМ	l Rate	Tax Amo	unt Ori	(137)
		Qty LOM Rate 2.67 Tons		

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Total Tax Total Ticket

403WM-N Driver's Signature

	5 +	4-1 								No. 1	1 miles		
Plea		nt or type. (Form designed on the second s	gned for use on elite (12-pitch) 1. Generator ID Number	typewriter.)	2. Page 1 of	3. Emergency Res	oonse Phor	ne	4. Waste Tr	racking Numk	per,		
Î	200	ASTE MANIFEST	1		1	282-285-44	88				008-	02	
	43 Vi	nerator's Name and Mail 32 E. Mashingto Vest Bond W. S rator's Phone: 282	n St			Generator's Site Ad 310 Oak St. Slinger M	dress (if diff	ferent th	an mailing addre	255)			
	6. Trai	nsporter 1 Company Nar	4	ction inc					U.S. EPA ID		117	2 5	8
	7. Trai	nsporter 2 Company Nar	ne						U.S. EPA ID Number				
	M M	signated Facility Name ar M Oronaro Ridg /124 N8825 Bou anomonee Falls ry's Phone: 202 2/	ndary Rd W 53051							U.S. EPA ID Number			
	9a. HM	9b. U.S. DOT Descript and Packing Group (if	ion (including Proper Shipping Nam any))	e, Hazard Class, ID Number,		10. C	ontainers	Гуре	11. Total Quantity	12. Unit Wt./Vol.			v.
GENERATOR		1Construction 8	Demolition Materials			0.0			00020	т			*
GENE		2.									1	- 11	
		3.							ω.				
		4.										1	
	14. G	GENERATOR'S CERTIFI	ns and Additional Information CATION: I certify the materials de		est are not subj	ect to federal regulati			2			4	*
	and the second	ator's/Offeror's Printed/Ty ernational Shipments	/ped Name	E WUShigered	UAS -	nature	of entrylexi	61	-b		Month	Day	Year
INT'L	-	porter signature (for expo	orts only):		Export from U		leaving U.S						
TRANSPORTER	Transp	ansporter Acknowledgmer porter 1 Printed/Typed Na porter 2 Printed/Typed Na	Ryan		and a	nature	1	Ş.	Ċ		Month Month	Day C 4/ Day	Year / & Year
1	17. Dis	screpancy							0	R.			
	17a. Di	iscrepancy Indication Spa	ace Quantity	Туре		Manifest Refe	ence Numi	her	Partial Rej	ection		Full Reject	ion
LITY	17b. Al	Iternate Facility (or Gener	rator)			mannostritoro	onee runn	0011	U.S. EPA ID N	Number			
ED FACI		y's Phone: ignature of Alternate Faci	lity (or Generator)								Month	Day	Year
 DESIGNATED FACILITY 									+				
+		signated Facility Owner of J/Typed Name	or Operator: Certification of receipt of	of materials covered by the m		as noted in Item 17a nature	lun .	P	2	10-	Month	Day	Year
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5-TRANSPORTER'S COPY



WASTE MANAGEMENT	Orchard Ridoe RI W124 N9355 Bound Menomonee Falls. Ph: (262) 253-84	larv Road . WI. 53051		Oricinal Ticket#	
Customer Name NORTHSH Ticket Date 05/24/2 Payment Type Credit Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 08R006- Destination PO Profile () Generator	018 Account	ORE Carrier ND Vehicle# 45 Container Driver Check# Dilling # Gen EPA ID Grid		NORTHSHORE Volume	
Time In 05/24/2018 15:05 Out 05/24/2018 15:31 Comments		Operator SBIRD1 JGINDT	Inbound	Gross Tare Net Tons	41860 lb 34060 lb 7500 lb 3.90
Product	LD% Qtv	UOM Rate	Τeι×	Amount	Origin
1 2000T-C&D TON	100 3.90	Tons	ine lea ant màisea an an sua i na sàsairt a	an ei ar in artista at niteration	WI

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Total Tax Total Ticket

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WA	N-HAZARDOUS ASTE MANIFEST	1. Generator ID Number) typewriter.)	2. Page 1 of	3. Emergency Respons 282-255-4468				ber 0 0 8 - 0 1
43 W	erator's Name and Mailin 2 E. Washington lest Bend W 53 ator's Phone: 282	n St. 3095 355-4445	ø -		Generator's Site Address 310 Oak St. Slinger W	s (if different th		(K
N		vironmental Constru	uction Inc				U.S. EPA ID	000	117258
	nsporter 2 Company Nan				<u>34-</u>		U.S. EPAID	number	1
W/ Mi	ignated Facility Name ar M Orchard Ridg 124 N8025 Bou enomonee Falls /s Phone: 262 25	ndary Rd /					Ú.S. EPA ID	Number	
9a. HM	9b. U.S. DOT Descripti and Packing Group (if a	ion (including Proper Shipping Na any))	me, Hazard Class, ID Nu	mber,	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.Niphos coating	soil excevation							
	VM Profile# 12	290241/4			001	CM	00020	Y	
F	2.	-							
	3.	x							
-									
- - 77		ns and Additional Information	····.	and a state of the	and the second s	1970 - Harrison Add Col Toronto	1		
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4. G 5. Inte	ecial Handling Instruction	CATION: I certify the materials of rped Name	described above on this r	manifest are not subj	eject to federal regulations l	for reporting p			Vaste.
4. G Genera 5. Inte Transp 6. Tra	ecial Handling Instruction	CATION: I certify the materials of rped Name	0	manifest are not subj Sig Export from	eject to federal regulations f gnature U.S. Port of e Date leav	for reporting p			Vaste. Month Day Yea 5 7 7 7
4. G Senera 5. Inte 6. Transp 6. Transp	ecial Handling Instruction	Information Additional Information	0	manifest are not subj Sig Export from Sig	ject to federal regulations I gnature	for reporting p			Vaste. Month Day Yea
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3-DESIGNATED FACILITY TO GENERATC





WASTE MANAGEMENT	Orchard Ridde RDF W124 N7355 Boundar Menomonee Falls. W Ph: (262) 253-8620	AI. 53051	α.	Oricinal Ticket#	
Customer Name NORTHSHO Ticket Date 05/24/20 Payment Type Credit A Manual Ticket# Hauling Ticket# - Route State Waste Code A-24- Manifest 02R00601 Destination PD Profile 129024WI Generator 136-WASH	>18 Account -06 - (NIPHOS COATINGS 8	Vehicle# Container Driver Check# Billinc # Gen EPA II Grid SOIL EXCAVATIO)	NORTHSHORE Volume	0.000 / 0
Time In 05/24/2010 13:37: Out 05/24/2018 14:05: Comments	23 InBound	Operator CHOFFMA3 CHOFFMA3	Inbound	Gross Tare Net Tons	59980 15 34440 15 25540 15 12.77
Product	LD% Qtv L	IOM Rate	Tax	Amount	Origin
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Total Tax Total Ticket

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403WM-N Driver's Signature



NON-HAZARDOUS MANIFEST

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	NON-HAZARDOUS MANIFEST						vo.	2. Page 10		4	6			
1	3. Generator's Mailing Address: Washington County		Washi	ngton C	ounty	fferent than m	ailling):	A. Manifes	Number					
	432 E. Washington St. West Bend WI 53095 4. Generator's Phone (262)	335-4445		Washin Bend WI	gton St. 53095				B. State C	Generator's IC)			
-	5. Transporter 1 Company Name	000 1110	1	5.	US EPA I	Number					Contraction of the local data			
	5. 110.159-51-5		1						ansporter's If	>				
								D. Transporter's Phone						
1	7. Transporter 2 Company Name			3.	US EPA II) Number		E. State Tr	E. State Transporter's ID					
1								and and a state of the state of	rter's Phone					
ł	9. Designated Facility Name and Si	e Address		10.	US EPA	ID Number						1		
	Orchard Ridge RDF							G. State Fa	icility ID					
	W124 N9355 Boundary Road	i						H. State Fa	cility Phone	262-253	-8620			
	Menomonee Falls, WI 5305													
1					1						in the second			
-	11. Description of Waste Materials					12. Ce No.	Type	13. Total Quantity	14. Unit Wt./Vol.	L. Mis	c. Comments	5		
G		Niphos Coatings Soil Excavation							11	11				
EN	a. Miphos coatings son ca	Niphos Coatings Soil Excavation				001	Cm	00020	X	Non	e			
E	WM Profile # 129024WI					The second second	- Smith Call		1					
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	J. Additional Descriptions for Ma	terials Listed Abo	ove			K. Dispo	osal Locatio	on	and the second day is sufficient on the party of					
										Level				
	BILL TO:					Cell				Lever				
		. I & dattain not to fe	amatian			1 onu				- Longer	and the second			
	15. Special Handling Instructions a	na Additional init	ormation											
	Purchase Order #			EME	RGENCY COM	TACT / PHON	NE NO .:	(262) 33	5-4445	a - Prince Programma				
	and the second							1						
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-des	without motorials	are not has	ardouc wa	ictos as dof	ined by CER	Part 261 c	or any applicab	le state law.	have been fu	lly and			
	accurately described, classified an	d packaged and a	re in prope	r condition	for transp	ortation ac	cording to	applicable reg	ulations.		-	-		
	Printed Name	11.	an ann an Aran an Aran Aran an Aran an A	Signatu	ire "On bel	half of	AT			Month	Day	Year		
	Lebora M. Die	lski		DE	alla	- Clary			en antilita antinana e a an	12	14	parto		
T	17. Transporter 1 Acknowledgem	ent of Receipt of I	Materials	-		1			an and a second seco	1	Dee	Year		
RA	Printed Name 0/1			Signatu	He /					Month	Day	18		
NSP	angen source			1/4	14_					- 42	1/	V.J.		
0 R	Construction for the second statement of the second statem	ent of Receipt of I	Materials	Cicenti	110	······		and printing and a second second second		Month	Day	Year		
T	Finiced Marine			Signatu	ure									
E A						and a president of the second		North Cold for Cold market in State of Cold				1		
	19. Certificate of Final Treatment	/Disposal		and the	in the				and the second state	11-	no ustala -4	ŧ		
FAC	I certify, on behalf of the above in	ted treatment fac	cility, that	to the best	of my kno	wledge, the	above-des	cribed waste	was manage	u in complian	ce with al			
1	applicable laws, regulations, perm 20. Facility Owner or Operator: 0	nits and licenses o	on the date	s listed abd	is material	covered h	this mani	fest.						
IIII	Contraction of the contraction of the contraction of the contraction of the second second second second second	erancation of rec	ceipt of not	Signat			r sins mam			Month	Day,	Year		
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			TO	120100
WASTE MANAGEMENT	Orchard Ridde ROF Wi24 N9355 Boundar Menomonee Falls. W Ph: (262) 253-8620	I. 53031	Original Tickgt# 1707	7829
Ticket Date 12/1 Payment Type Crad Manual Ticket# Hauling Ticket# Route State Waste Code A Manifest na Destination PO Profile 1290	it Account	Vehicle# 46 Container Driver Check# Dilling # 0003345 Gen EPA ID Grid Crid	NGRTHØHORE ENV Velune	
Time In 12/14/2013 13 Out 12/14/2013 14		Operator Inbound sbird1 sbird1	l Bross Tare Net Tons	69780 lb 35200 lb 33580 lb 16.27

Commentes

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403WM-N Griver's Signature



NON-HAZARDOUS MANIFEST

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NON-HAZARDOUS MANIFEST	1. Generator's	s US EPA ID	No.	Manifest Doc	NO.	2. Page 1 o 1						
3. Generator's Mailing Address: Washington County 432 E. Washington St. West Bend WI 53095		Washi 432 E.	or's Site Addre ngton Cour Washingto Bend WI 531	n St.	ailing):	A. Manifes WN	INA	enerator's je	21	es		
The second se	2) 335-4445	1		PDA ID Muschas			anna an					
5. Transporter 1 Company Name		e	5. US	EPA ID Number		C. State Tr	ansporter's ID)	and some of the second s	and a fair state of the second		
							D. Transporter's Phone					
7. Transporter 2 Company Name		\$		EPA ID Number		Sector and a sector of the sec	ansporter's ID rter's Phone)				
9. Designated Facility Name and S Orchard Ridge RDF			10. U	S EPA ID Number		G. State Fa	cility ID cility Phone	262-253	-8620			
W124 N9355 Boundary Roa Menomonee Falls, WI 5305		-	alana alatan 1965 birin biring			111 01010 1						
Menomonee Fails, W1 550.	51				and the second	1.00		P. S. Sandara				
11. Description of Waste Materia	le		and the second secon	and the second s	Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Mis	ic. Commen	ts		
	And a second			No.	Type		N/	11.	antin din dan sasa menger			
a. Niphos Coatings Soil E	cavation			201	em	06020	7	None				
WM Profile # 129024WI	wie		and a second	P				and the second sec		and the strength of the second		
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J. Additional Descriptions for M	laterials Listed Abo	ove		K. Disp	IOSAI LOLALI	011						
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BILL TO:			and the state of the	Grid				1				
15. Special Handling Instructions	and Additional Inf	formation			- Concernation of the second se	10001 0	0F 444F			Para		
Purchase Order #			EMERGEN	NCY CONTACT / PHO	INE NO.:	(262) 3	35-4445			No. of Concession, Name		
15. GENERATOR'S CERTIFICATE:							to shake low	have been fi	hand			
I hereby certify that the above-d	escribed materials	are not ha	zardous wastes	as defined by CF	R Part 261	annlicable reg	ulations.	nave been it	iny and			
accurately described, classified a	nd packaged and a	are in prope	Signature		Leorang to	appression of		Month	Day	Year		
Printed Name M. Si	elski			the Hendrice	U1		and the second	12	114	20/8		
1 17. Transporter 1 Acknowledge		Materials	2	11								
Printed Name	i e-		Signature	l				Month 12	Day 14	Year 20/1		
P 18. Transporter 2 Acknowledge	ment of Receipt of	f Materials		and the second secon					Day	Year		
Printed Name			Signature					Month	Uay	, teat		
 a 19. Certificate of Final Treatme F I certify, on behalf of the above applicable laws, regulations, pe 	listed treatment fa rmits and licenses	on the date	s listed above.			Constitution and in the owners of the state	was manage	d in complia	nce with	all		
20. Facility Owner or Operator:	Certification of re	eceipt of no	n-hazardous m	aterials covered I	by this man	ifest.			1			
T Pristed Name			Signature					Month	Day	Year		
*			S	\bigcirc				14	114	118		

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WASTE MANAGEMENT	Orchard Ridg <i>a</i> RDF W124 N9355 Boundarv Menomonee Falls, WI, Ph: (262) 252-8620		Original Ticket#	
Ticket Date 12/14 Payment Type Credi Manual Ticket# Hauling Ticket# Route State Waste Code A- Manifest na Destination PD Profile 12902	t Account	Vehicle# 45 Container Driver Check# Billing # 000334 Gen EPA ID Grid A. EXCAVATION WM0124		
Time In 12/14/2018 11:	28:49 InBound si)perator 1: sird1 vird1	bound Gross Tare Net	12640 1b 35300 1b 27360 1b

Commente

Out 12/14/2018 12:00:43

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Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT C.3

DESCRIPTION OF METHODOLOGY

Not applicable - Ch. NR 720, Wis. Adm. Code was used in determining soil cleanup standards for the site.

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT C.4

CONSTRUCTION DOCUMENTATION

Remedial Documentation Report of the soil removal action, dated June 10 2019.

REMEDIAL DOCUMENTATION REPORT Former Niphos Coatings, Inc. Property 308 and 310 Oak Street Slinger, Wisconsin



Prepared for: Washington County 432 East Washington Street West Bend, Wisconsin 53095

Prepared by:

Stantec Consulting Services Inc. 12075 Corporate Parkway, Suite 200 Mequon, Wisconsin 53092

Project No.: 193705875

June 10, 2019

Table of Contents

GEN	ERAL INFORMATION	.1
1.0	OVERVIEW	1
1.1	INTRODUCTION	1
1.2	BACKGROUND INFORMATION	1
1.3	HISTORICAL PROPERTY USES	
1.4	PREVIOUS ENVIRONMENTAL STUDIES	2
2.0	PROJECT AREA REMEDIAL OBJECTIVES	
2.1	APPLICABLE CLEANUP CRITERIA	
2.2	PROJECT-SPECIFIC REMEDIAL OBJECTIVE SUMMARY	3
3.0	REMEDIAL ACTION IMPLEMENTATION	
3.1	MAY 2018 REMEDIAL ACTIONS	
3.2	INTERMEDIATE CONFIRMATION SAMPLING	
3.3	DECEMBER 2018 REMEDIAL ACTIONS	. 4
4.0	ONSITE SOIL MANAGEMENT SUMMARY	
4.1		
4.2	EXTENT OF RESIDUAL CONTAMINATED SOIL	
4.3	ENGINEERED BARRIER PLAN	
5.0		6
6.0	LIMITATIONS	7
7.0	CERTIFICATIONS	. 8

LIST OF FIGURES

- Figure 1: Location Map
- Figure 2: Residual Soil Contamination
- Figure 3: Groundwater Elevation Contour Map and Extent of Arsenic in Groundwater
- Figure 4: Remedial Action

LIST OF TABLES

 Table 1:
 Soil Analytical Results, Former Niphos Coatings Property, Slinger, Wisconsin

LIST OF APPENDICES

APPENDIX A	MAY 2018 SOIL DISPOSAL DOCUMENTATION
APPENDIX B	DECEMBER 2018 SOIL DISPOSAL DOCUMENTATION
APPENDIX C	SOIL SAMPLE LABORATORY ANALYSIS REPORTS AND CHAIN-OF-CUSTODY
	RECORDS
APPENDIX D	PHOTO DOCUMENTATION LOGS

Stantec Project No.: 193705875

REMEDIAL DOCUMENTATION REPORT FORMER NIPHOS COATINGS, INC. PROPERTY 308 AND 310 OAK STREET SLINGER, WISCONSIN

General Information

FACILITY:	Former Niphos Coatings, Inc. Property, Slinger, Wisconsin
WDNR BRRTS NO.:	02-67-561163
SITE LOCATION:	Southwest ¼ of the Northeast ¼, Section 18, Township 10 North, Range 19 East, Village of Slinger, Washington County, Wisconsin
RESPONSIBLE PARTY:	Washington County (Property acquired through tax foreclosure.) 432 East Washington Street West Bend, Wisconsin 53095
CONTACT:	Ms. Deb Sielski, Deputy Planning and Parks Administrator Washington County Public Agency Center 333 East Washington Street, Suite 2300 West Bend, Wisconsin 53095
CONSULTANT:	Stantec Consulting Services Inc. 12075 Corporate Parkway, Suite 200 Mequon, Wisconsin 53092
CONTACT:	Mr. Richard Binder, PG Senior Project Manager Phone: 262-643-9010 Email: <u>Rick.Binder@stantec.com</u>
WDNR OVERSIGHT:	Wisconsin Department of Natural Resources 1155 Pilgrim Road Plymouth, Wisconsin 53073
CONTACT :	Mr. John Feeney Phone: 920-893-8523 Email: <u>JohnM.Feeney@wisconsin.gov</u>



REMEDIAL DOCUMENTATION REPORT FORMER NIPHOS COATINGS, INC. PROPERTY 308 AND 310 OAK STREET SLINGER, WISCONSIN

OVERVIEW June 10, 2019

1.0 OVERVIEW

1.1 Introduction

On behalf of Washington County, Stantec Consulting Services Inc. (Stantec) prepared this report to document the remedial activities taken and on-site contaminated soil management completed during 2018 for the Former Niphos Coatings, Inc. Property at 308 and 310 Oak Street in Slinger, Wisconsin (herein referred to as the Property).

This work included excavation and offsite disposal of approximately 43.24 tons of contaminated soil during two separate remediation excavations in 2018. Areas of residual contamination were capped in place with clean fill and top soil.

Based on the remedial actions completed, case closure of Wisconsin Department of Natural Resources (WDNR) Bureau of Remediation and Redevelopment Tracing System (BRRTS) No.: 02-67-561163 is warranted. The case closure request will be submitted to the WDNR as a separate future submittal. Further details regarding the Property remedial actions completed are provided in the following sections.

1.2 Background Information

The Property is located near the center of downtown Slinger, Wisconsin, at 308 and 310 Oak Street, and is approximately 14,100 square feet (0.32 acre). The Property location relative to local topography is illustrated on Figure 1. Surrounding land use is a mix of vacant, light industrial, and residential properties. As illustrated on Figure 2, the Site contains two unoccupied buildings: (a) a two-story main former industrial building with a footprint of approximately 4,700 square feet on the northeast side of the lot and assigned the address of 308 Oak Street; and (b) a one-story residential building with a footprint of approximately 1,525 square feet, constructed of concrete blocks, and located along the rear (southwest side) of the Site and assigned an address of 310 Oak Street. The Site was acquired by Washington County from Harju Holdings, LLC through tax foreclosure in December 2015.

1.3 Historical Property Uses

Use of the Property for industrial purposes dates back at least 140 years, when there are records of a watch and jewelry factory having been constructed on the Property. Subsequent uses included a cigar factory and a pipe organ factory. Beginning in 1982, the Property was occupied by Niphos Coatings, Inc. and used for plating operations. The business was sold in 2006 and reportedly continued operations through October 2010. An inspection conducted by the State of Wisconsin and Village of Slinger on August 20, 2012 led to the discovery of large volumes of toxic and hazardous materials stored in the main building. The discovery of the hazardous materials led to a removal action being undertaken by the United States Environmental Protection Agency (USEPA) from September through October 2012. At the time of the inspection, the building was estimated to contain: 750 pounds (lbs) of copper cyanide; 27,598 lbs of nickel sulfate; 4,198 lbs of nitric acid; 3,500 lbs of sodium cyanide; and an unspecified quantity of hydrochloric acid and other chemicals. On October 23, 2013, the WDNR was notified of groundwater and soil contamination at the Property from polynuclear aromatic hydrocarbons (PAHs), and from various metals, including nickel, arsenic, and lead. The Property is listed on the BRRTS on the Web Environmental Cleanup & Brownfields Redevelopment database as an open Environmental Repair Program (ERP) site (BRRTS # 02-67-561163).



REMEDIAL DOCUMENTATION REPORT FORMER NIPHOS COATINGS, INC. PROPERTY 308 AND 310 OAK STREET SLINGER, WISCONSIN

OVERVIEW June 10, 2019

1.4 Previous Environmental Studies

An inspection conducted by the State and Village on August 20, 2012, led to the discovery of large volumes of toxic and hazardous materials stored in the main building. The discovery of the hazardous materials led to a removal action being undertaken by EPA during September-October 2012. At the time of the inspection, the building was estimated to contain: 750 lbs of copper cyanide, 27,598 lbs of nickel sulfate, 4,198 lbs of nitric acid, 3,500 lb. of sodium cyanide, and an unspecified quantity of hydrochloric acid and other chemicals.

A Phase I Environmental Site Assessment (ESA) of the Property was completed in June 2013 by a contractor (AECOM) working on behalf of the WDNR under the Wisconsin Assessment Monies (WAM) Contractor Services Award Program. AECOM completed a Phase II ESA in 2013 on behalf of the WDNR to assess the Recognized Environmental Conditions identified in their Phase I ESA report.

Stantec completed a supplemental site investigation of behalf of Washington County on July 29, 2016, utilizing USEPA funds from the Fiscal Year 2014 Coalition Assessment Grant awarded to the County and its coalition partners. The purpose for the assessment was to: (a) further define the nature, magnitude, and extent of soil and groundwater impacts at the Property identified in the AECOM Phase II ESA; (b) to further assess hazardous building materials present in Property buildings to determine abatement requirements necessary for demolition or renovation; and (c) to obtain sufficient environmental data to develop a remedial action plan to develop the property for non-industrial (multi-family residential) reuse. The work was performed in accordance with a site-specific sampling and analysis plan (SAP) prepared by Stantec and approved by the USEPA on February 2, 2016.

As a part of the 2016 supplemental site investigation, ten soil borings were advanced on the Property, field-screened for the presence of volatile organic compounds (VOCs), and soil samples were submitted for laboratory analysis for metals (arsenic, lead, and nickel), cyanide, PAHs, and VOCs using EPA methods 6010C, 9012A, 8270D and 8260C, respectively. Seven temporary wells were also installed, and groundwater samples were collected and submitted for laboratory analysis for metals (arsenic, lead and nickel), cyanide, PAHs, and VOCs using EPA methods 6010C, 9012A, 8270D, and 8260B, respectively.

Cyanide and nickel concentrations in soil were found to exceed their respective groundwater protection residual contaminant levels (RCLs). The measured cyanide and dissolved nickel concentrations in groundwater samples taken on the site, however, were all below laboratory detection limits and/or below applicable Wisconsin Administrative Code (WAC) NR 140 Groundwater Quality Standards. Arsenic and lead were found at concentrations exceeding one or more applicable soil and/or groundwater standard, and above soil standards for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Apart from boring SB6/TW15 (located north of the main entrance to the residence at 310 Oak Street), all locations where one or more constituents in soil samples exceeding direct contact RCLs were covered by a building slab, asphalt, or concrete pavement.

Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP) surveys performed by NorthStar Environmental Testing, LLC on February 22, 2016 as a part of this supplemental site investigation identified asbestos and lead-based paint in areas of both buildings on the Property.

Based on the results of these investigations, the Property buildings contain ACM and LBP requiring proper abatement/management prior to demolition and/or renovation. Soil and groundwater contamination were present at concentrations above applicable state cleanup standards and would require remedial measures as part of site redevelopment.



PROJECT AREA REMEDIAL OBJECTIVES June 10, 2019

2.0 PROJECT AREA REMEDIAL OBJECTIVES

2.1 Applicable Cleanup Criteria

Procedures for establishing soil clean-up standards applicable to sites in Wisconsin with documented soil contamination are specified in WAC NR 720 and associated guidance. Soil clean-up standards depend in part on current land use and zoning. Based on the anticipated residential use of the Property, the more restrictive non-industrial classification was used to assess clean-up criteria.

RCLs are numerical soil clean-up standards that are calculated for a minimum of two exposure pathways – direct contact by humans with exposed soil and leaching of contaminants from soil into groundwater. The clean-up standard is the lower of the RCLs calculated for several exposure pathways. Samples that are determined through laboratory analysis to exceed one or more of these RCLs will need to undergo clean-up in the area that they were collected from to lower contaminant levels, and/or a cover must be constructed to address the direct-contact pathway.

2.2 Project-Specific Remedial Objective Summary

The existing building slabs and pavement on the Property acted as a barrier for much of the contaminated existing soil exceeding WDNR groundwater pathway and direct contract RCLs. Where these barriers did not already exist, a plan was created and executed to remediate and cap areas of residual soil and groundwater contamination per WAC NR 722.09 (2M). These exposed areas of contaminated soil were proposed to be remediated per the "Remedial Contractor Activities Necessary for WDNR Case Closure" document dated June 10, 2019, and included the following objectives:

- Clear and grub trees and shrubs outside of the entrance to the 310 Oak Street residence to a depth of 18 inches, remove miscellaneous debris on the ground surface, remove surficial soil from the concrete slab, and appropriately dispose of these materials.
- Excavate soil outside of the entrance to the 310 Oak Street residence to a depth of 18 inches, and transport and dispose of it at the Waste Management Inc. landfill in Germantown, Wisconsin.
- Place Mirafi® 500X high-tenacity polypropylene geotextile across the base of the excavated area.
- Backfill the excavation with 14 inches of clean soil and compact to minimize future settlement.
- Place 4 inches of top soil on top of the clean fill to bring the site up to grade.
- Place sod over the top soil.
- Provide documentation to Washington County documenting soil disposal and purchase of fill soil and top soil from approved sources.



REMEDIAL ACTION IMPLEMENTATION June 10, 2019

3.0 REMEDIAL ACTION IMPLEMENTATION

Stantec coordinated field remedial activities with The Reese Group, LLC (TRG). Trees and shrubs outside of the entrance to the 310 Oak Street residence were removed on March 28, 2018. A site waste profile was approved by Waste Management, Inc. on March 30, 2018, and approved by Washington County on April 9, 2018. Remediation activities were performed during two separate events in May and December of 2018. Details of these events are provided in the following subsections.

3.1 May 2018 Remedial Actions

On May 23, 2018, Stantec and TRG provided guidance for the remedial excavation activities on the west side of the entrance to the 310 Oak Street residence. North Shore Environmental Construction, Inc (North Shore Environmental) was subcontracted to perform the remedial excavation work. Contaminated soil was excavated to a depth of 18 inches, and 40 square yards of Mirafi® 500X high-tenacity polypropylene geotextile was placed across the base of the excavation before backfilling with 14 inches of clean soil fill sourced from Lannon Stone Products, Inc (Lannon Stone) in Lannon, Wisconsin. Placed on top of this was 4 inches of top soil (approximately 4.5 cubic yards) sourced from Liesener Soils, Inc (Liesener Soils). The site sod was placed on June 2, 2018.

3.2 Intermediate Confirmation Sampling

A confirmation sample was collected from the site beneath the deteriorating wooden porch of the residence (east of the excavation site) on August 23, 2018. Stantec also entered the industrial building under Washington County supervision to resample temporary groundwater monitoring well TW-17. However, the well was found to be damaged with the well casing removed from the boring. Per later discussion with Washington County, a second soil sample was collected to the east of the wooden porch on October 9. 2018. Both samples were submitted for laboratory analysis for PAHs and Resource Conservation and Recovery Act (RCRA) metals. The laboratory results indicated that residual contamination from lead, arsenic, benzo(a)pyrene and dibenz(a,h)anthracene exceeded their respective direct contact RCLs at or near the surface in these locations, prompting additional remedial activity in December 2018 (Appendix C).

3.3 December 2018 Remedial Actions

On December 14, 2018, Stantec and TRG provided guidance for the supplemental remedial excavation activities at the entrance to the 310 Oak Street residence. North Shore Environmental was subcontracted to perform the remedial excavation work. Contaminated soil was excavated to a depth of 18 inches, and 350 square feet of Mirafi[®] 500X high-tenacity polypropylene geotextile was placed across the base of the excavation before backfilling with 14 inches of clean soil fill sourced from Lannon Stone Lannon Stone. Placed on top of this was 4 inches of top soil (approximately 5 cubic yards) sourced from Liesener Soils. Seed and mulch were placed on December 14, 2018.



ONSITE SOIL MANAGEMENT SUMMARY June 10, 2019

4.0 ONSITE SOIL MANAGEMENT SUMMARY

4.1 Contaminated Soil Movement

Approximately 6.59 tons of construction and demolition materials and 12.77 tons of contaminated soil were removed from the Site and disposed of at the Waste Management Orchard Ridge RDF Landfill in Menomonee Falls, Wisconsin, as a part of the remedial activities performed in May 2018 (Appendix A). Three non-hazardous waste manifest documents were signed by Tyler Ryan or Jim Gilley on behalf of Washington County as the Generator of this waste.

Approximately 1.39 tons of construction and demolition materials and 30.47 tons of contaminated soil were removed from the site and disposed of at the Waste Management Orchard Ridge RDF Landfill as a part of the remedial activities performed in December 2018 (Appendix B). Two non-hazardous waste manifest documents were signed by Debora Sielski on behalf of Washington County as the Generator of this waste.

4.2 Extent of Residual Contaminated Soil

The two soil samples that were taken on December 14, 2018, were laboratory analyzed for PAH and RCRA metals. No PAHs exceeded any standard for either sample. One sample that was taken at the bottom of the excavation near the center of the former wooden porch footprint had arsenic detected above the direct contact RCL and background threshold value (BTV). The other sample that was taken to the east of the former porch footprint also detected arsenic above the direct contact RCL, but beneath the BTV. No other analytes above the non-industrial direct contact RCL were detected. The areas where both samples were taken were capped on the same date with 14 inches of clean soil fill followed by 4 inches of top soil to provide a barrier addressing the direct contact RCL exceedance (Table 1). Photographic documentation of the remedial actions is included in Appendix D.

4.3 Engineered Barrier Plan

The existing building slabs and pavement, along with the clean capped areas created during the May and December 2018 remedial activities serve to provide an engineered barrier across the entire Property. These engineered barriers will prevent direct contact exposure to any residual impacted soil. Case closure will include updating the existing listing on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites with updated information concerning the engineered barrier/cap.



CONCLUSIONS AND RECOMMENDATIONS June 10, 2019

5.0 CONCLUSIONS AND RECOMMENDATIONS

Approximately 43.24 tons of contaminated soil from the Property was excavated and transported to an offsite landfill for disposal. The remedial actions completed have resulted in reduction of contaminant mass and extent on the Property.

The remaining residual soil contamination on the Property primarily consists of arsenic- and PAHcontaminated soil. An engineered barrier consisting of 14 inches of clean soil fill followed by 4 inches of top soil was constructed on top of these residually contaminated areas. The remainder of the Site is capped via existing building slab foundations and pavement. The entire Property is capped to address residual non-industrial direct contact RCL exceedances.

The remedial actions have successfully managed contaminated soil associated with the historic use of the Property. Based on the supplemental investigation and subsequent remedial activities, Stantec believes that closure of this WDNR BRRTS case is warranted. The case closure request will include listing the Site as having residual contamination on the WDNR GIS database.



LIMITATIONS June 10, 2019

6.0 LIMITATIONS

The investigation and remediation activities were performed in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies at the same time and in the same geographical area as the work conducted by Stantec. Stantec observed the degree of care and skill that are generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based upon our professional judgement concerning the significance of the data gathered during this investigation. Specifically, Stantec cannot represent that the site does not contain any hazardous or toxic materials or other latent conditions beyond that observed by Stantec during the investigation. Additionally, due to limitations of the investigation process and the necessary use of data furnished by others, Stantec and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.



CERTIFICATIONS June 10, 2019

7.0 CERTIFICATIONS

"I, <u>Richard J Binder</u>, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Richard J. Binder, PG No. 734

6/10/2019 Date

"I, <u>Hiedi A. Waller</u>, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

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Date

Hiedi A. Waller, PE

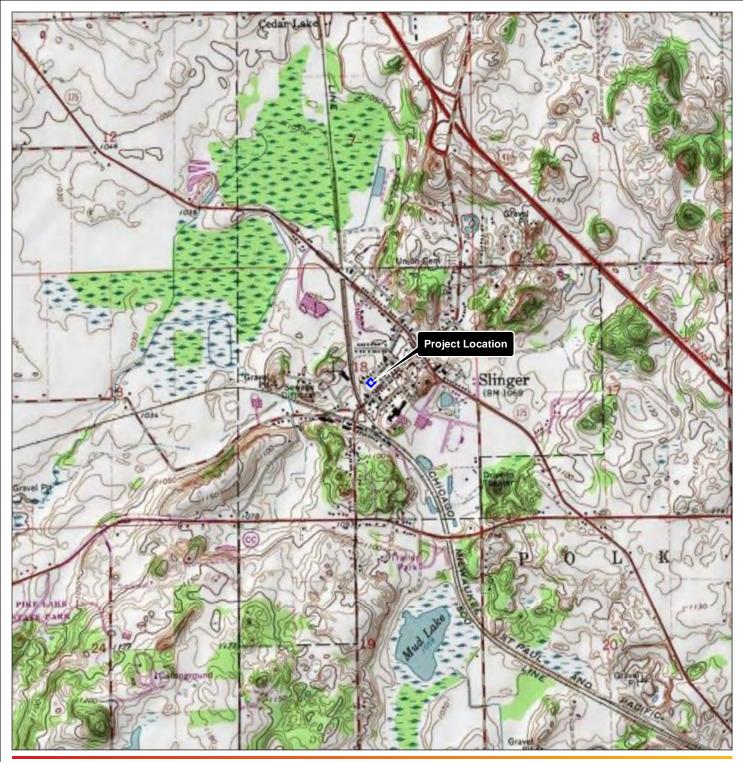
No. E-33741



Figures June 10, 2019

> Figure 1 Location Map







Legend Property Boundary

Notes
1 Coordinate System: NAD 1983 StatePlane Wisconsin

Notes 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Data Sources Include: Stantec 3. Background: 7.5' Topographic Quadrangle

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data. Figure No. 1 Title **Location Map** Client/Project Washington County Former Niphos Coatings Building Project Location TioN, R19E, S18 Vashington Co., VII Prepared by AS on 2016-04-31 Dependent Review by X on 2016-04-31 Dependent Review by X on 2016-04-31 Dependent Review by X on 2016-04-32 Depe

Figures June 10, 2019

> Figure 2 Residual Soil Contamination







Notes 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Data Sources Include: Stantec, WDNR and WDOT 3. Orthophotography: 2013 NAIP

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- Legend Trench Drain Building Footprint
 - Property Boundary
- Temporary Well Location (Stantec 2016)
- Soil Boring Location (Stantec 2016)
- Temporary Well Location (AECOM 2016)
 - Metals above background threshold values

Polycyclic aromatic hydrocabons (PAHs) above non-industrial residual contaminant levels

Polycyclic aromatic hydrocabons (PAHs) above industrial and soil to groundwater pathway residual contaminant levels

Figure No.

2 Title

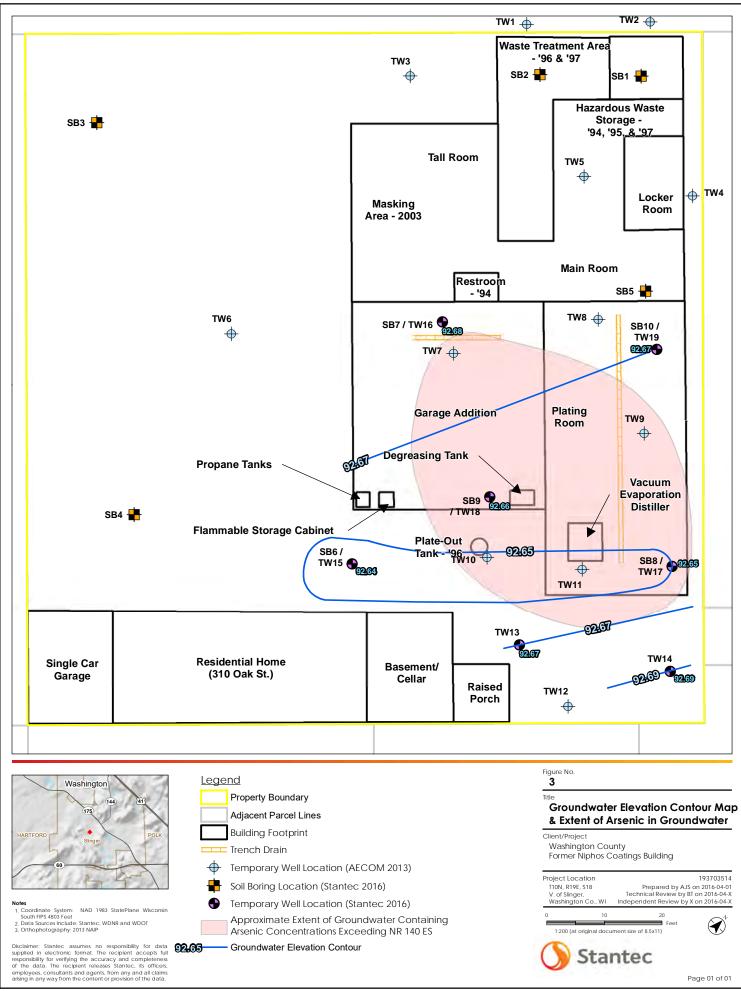
Residual Soil Contamination



Figures June 10, 2019

> Figure 3 Groundwater Elevation Contour Map and Extent of Arsenic in Groundwater





V:\1937\active\1937\3514\07_gis\mxds\NiphosCoatings\gis\mxds\Figure 4 Groundwater Elevation & Arsenic.mxd Revised: 2016

Figures June 10, 2019

> Figure 4 Remedial Action



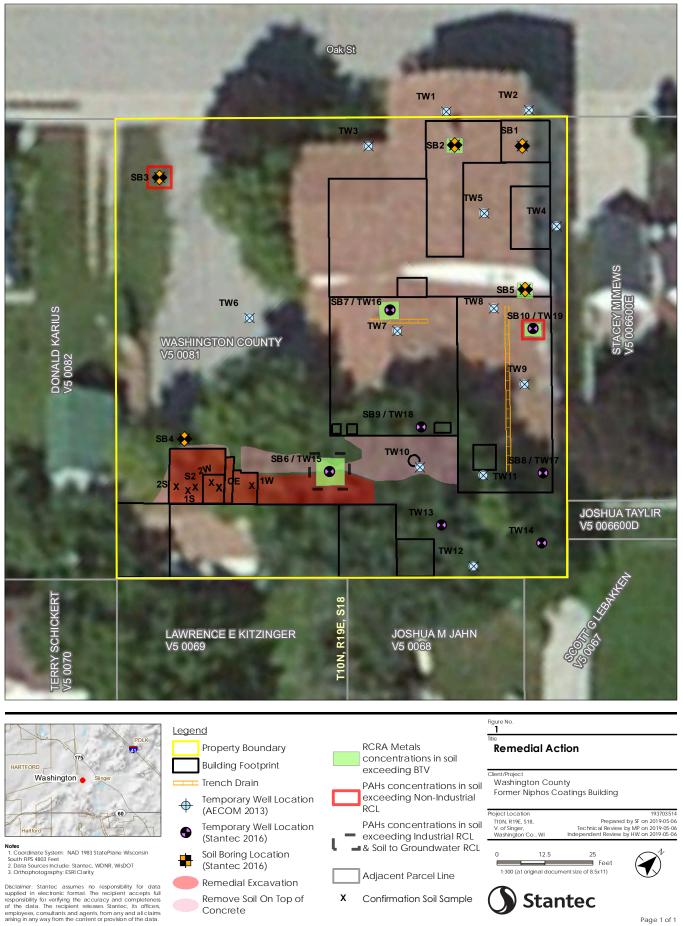


Table June 10, 2019

> Table 1 Soil Analytical Results, Former Niphos Coatings Property, Slinger, Wisconsin



Table 1 Soil Analytical Results, Former Niphos Coatings Property, Slinger, Wisconsin

									м	etals												Polynucle	ear Arom	natic Hyd	rocarbon	S									Volatile C	Drganic Co	ompound	s	
Sample Number	Date Collected	Depth (feet below grade)	PID Response (iui)	Cyanide	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	1,2,4-Trimethyl-benzene	Ethylbenzene	Dichloro- difluoromethane	Methylene Chloride	Napthalene	Toluene	Xylenes, Total
Direct Contact R		/		27.1	0.677	15,300	71.1	NE	3,130	400	3.13	1,550	391	391	3.59E+06	NE	1.79.E+07	1,140	115	1,150	NE	11,500	115,000	115	2.39.E+06	2.39.E+06	1,150	17,600	239,000	5,520	NE	1.79.E+06	219	8.02	126	61.8	5.52	818	260
	ter Protectic	on RCL		4.04	0.584	164.8	0.752	360,000			0.208	13.1	0.52	0.85	NE	NE	196,949	NE	470	478	NE	NE	144	NE	88,878	14,830	NE	NE	NE	658	NE	54,545	1.3787	1.57	3.0863		0.6582	1.1072	3.96
Background Three	of Measure			NE ma/ka	8.3	364	1.07	43.5	35.4 ligrams	51.6 per kilog	NE	30.8	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE (ug/kg)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE por kilogra	NE m (mg/k)	NE	NE
NC-SS-TW1	07/18/13	2-3	0	mg/kg <0.10	3.7	69.8	0.28 J	13.9	23.1	17.7	0.023	13.0	<0.60	<0.22	<9.8	<9.8	22.3	54.5	68.2	63.2	130	54.0	69.0	kilogram 18.1 J	112	<9.8	41.4	<3.5	<9.8	< 9.8	61.7	104	<0.025	<0.025	< 0.025	per kilogra <0.025	< 0.025	9) <0.025	< 0.075
NC-SS-TW1	07/18/13	5-6	0	<0.16	3.4	28.2	0.18 J	12.7	11.0		0.051	8.7	< 0.59	<0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	<0.025	< 0.025		<0.025	<0.025	< 0.075
NC-SS-TW2	07/18/13	2-4	0	<0.22	3.2	113	0.44 J	18.7	37.9	30.4	0.06	14.7	0.96 J	<0.26	<10.5	<10.5	<10.5	<10.5	<3.7	<10.5	<10.5	5.3 J	<10.5	<10.5	10.9 J	<10.5	<10.5	10.9 J	16.6 J	16.8 J	14.4 J	<10.5	< 0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	< 0.075
NC-SS-TW2	07/18/13	5-6	0	<0.14	4.2	114	0.31 J	20.1	31.1	26.5	0.075	14.8	<0.65	<0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	<0.025	<0.025		<0.025	<0.025	<0.075
NC-SS-TW3	07/18/13	2-3	0	< 0.13	5.2	124	0.21 J	22.4	19.9		0.023	12.8	<0.66	< 0.24	<10.3	<10.3	<10.3	<10.3	<3.7	<10.3	<10.3	<3.6	<10.3	<10.3	<10.3	<10.3	<10.3	<3.6	<10.3	<10.3	<10.3	<10.3	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW3 NC-SS-TW4	07/18/13 07/18/13	5-6 1-3	0 0	<0.17 <0.17	4.7 5.7	57.1 99.6	0.19 J 0.28 J	15.5 21.5	11.4 24.5	-	0.0089 0.033	11.2 18.3	<0.66 <0.64	<0.24 <0.23	- <10.2	- <10.2	- <10.2	- <10.2	- 6.9 J	- <10.2	- <10.2	- 7.3 J	- <10.2	- <10.2	- 22.7	- <10.2	- <10.2	- <3.6	- <10.2	- <10.2	- 24.8	- 19.6 J	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025		<0.025 <0.025	<0.025 <0.025	<0.075 <0.075
NC-SS-TW4	07/18/13	1-3 5-7	0	<0.17	2.5		0.26 J	11.4	24.5	30.1	0.033	10.3	< 0.59	< 0.23	-	-	-	-	0.7J -	-	-	-	-	-	-	-	- 10.2	-	-	-	- 24.0	-	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW4 (DUP)	07/18/13	5-7	0	<0.18	2.5	122	0.37 J	16.6	28.9		0.017	18.1	<0.66	<0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW5	07/18/13	4-6	0	<0.18	2.2	36.8	0.24 J	9.4	10.0	18.6	0.014	7.5	<0.64	<0.23	<9.4	<9.4	<9.4	31.4	28.7	<9.4	25.8	6.6 J	44.7	<9.4	<9.4	<9.4	<9.4	<3.3	<9.4	<9.4	20.4	98.2	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.075
NC-SS-TW5	07/18/13	10-12	0	<0.11	2.6		0.17 J	11.0	10.3		< 0.0037	7.4	<0.70	<0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025		<0.025		<0.025	<0.025	< 0.075
NC-SS-TW6	07/18/13	1-3	0	< 0.23	9.9		0.33 J	30.7	27.6		0.055	40.8	<1.3	< 0.47	<10.4	<10.4	<10.4	<10.4	<3.7	<10.4	<10.4	<3.7	<10.4	<10.4	<10.4	<10.4	<10.4	<3.7	<10.4	<10.4	<10.4	<10.4	< 0.025	< 0.025	< 0.025		< 0.025 (0.0369 J	< 0.075
NC-SS-TW6 (DUP) NC-SS-TW6	07/18/13 07/18/13	1-3 5-7	0 0	< 0.16	8.1 3.9 J	86.2 17.2	0.29 J 0.17 J	23.9 7.6	21.2 13.4		0.035 0.0082	16.2 5.9	< 0.64	< 0.23	<9.9	<9.9	<9.9	<9.9	<3.5	<9.9	<9.9	<3.5	<9.9	<9.9	<9.9	<9.9	<9.9	<3.5	<9.9	<9.9	<9.9	<9.9	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025		<0.025 <0.025	<0.025 <0.025	<0.075 <0.075
NC-SS-TW7	07/18/13	8-9		<0.15 0.36 J	3.9 J 3.5 J	46.2	0.17 J	9.2	62.2		0.0082	50.2	<0.63 <0.59	<0.23 0.96 J	- <8.6	- <8.6	- <8.6	- <8.6	- <3.1	- <8.6	- <8.6	<3.0	- <8.6	- <8.6	- <8.6	<8.6	- <8.6	- <3.1	- <8.6	- <8.6	- <8.6	- <8.6	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW7	07/18/13	11-12	0	<0.11	1.4 J	9.6	0.16 J	6.0	8.4	4.3	0.0044 J	5.1	<0.69	<0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.025	<0.025	<0.025		<0.025	<0.025	< 0.075
NC-SS-TW8	07/18/13	2-4	0	<0.11	3.4	104	0.15 J	20.4	11.8		0.028	13.2	<0.62	<0.22	<9.8	<9.8	<9.8	<9.8	<3.5	<9.8	<9.8	<3.4	<9.8	<9.8	<9.8	<9.8	<9.8	<3.5	<9.8	<9.8	<9.8	<9.8	< 0.025	< 0.025	< 0.025		<0.025	<0.025	< 0.075
NC-SS-TW8	07/18/13	5-6	0	<0.16	4.2	58.7	0.28 J	10.3	13.1	4.0	0.008	14.8	<0.64	<0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	<0.025	< 0.025	< 0.025	<0.025	<0.025	< 0.075
NC-SS-TW9	07/18/13	1-3	0	0.19 J	10.8	191	0.39 J	33.8	26.5	11.9	0.067	84.2	<0.72	<0.26	<11	<11	<11	<11	<3.9	<11	<11	<3.9	<11	<11	<11	<11	<11	<3.9	<11	<11	<11	<11	< 0.025	<0.025	< 0.025	< 0.025	<0.025	<0.025	< 0.075
NC-SS-TW9	07/18/13	6-7	0	<0.13	4.0	30.6	0.36 J	11.6	12.0		0.012	231	<0.61	<0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW10 NC-SS-TW10	07/18/13 07/18/13	3-4 5-6	0 0	<0.20 <0.13	5.5 3.5	90.5 45.3	0.3 J 0.16 J	24.1 12.6	29.2 11.2		0.044 0.013	18.8	<0.59 <0.67	<0.21 <0.24	<9.6	<9.6	<9.6	<9.6	<3.4	<9.6	<9.6	<3.4	<9.6	<9.6	<9.6	<9.6	<9.6	5.8 J	<9.6	13.4 J	<9.6	<9.6	< 0.025	< 0.025	< 0.025		< 0.025	<0.025 <0.025	<0.075 <0.075
NC-SS-TW10	07/18/13	5-6 1-4	0	< 0.13	3.5	40.5 54 7	0.10 J	12.0	8.2	4.4 2.0	0.013	11 3	< 0.65	< 0.24	- <10	- <10	- <10	- 23.7	27.9	- 28.7	- 19.4 J	- 26.2	- 30.8	- <10	- 39.6	- <10	- 15.6 J	- <3.5	- <10	- <10	- 20.1	40.6	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	< 0.025	< 0.075
NC-SS-TW11	07/18/13	6-7	0	<0.12	2.1	24.5	0.67	8.5	7.6	3.0	0.0087	10.9	<0.58	<0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		<0.025	<0.025	< 0.025		<0.025	<0.025	<0.075
NC-SS-TW12	07/18/13	3-4	0	<0.12	3.1	75.4	0.32 J	11.7	74.3		0.03	8.9	<0.63	<0.23	<9.2	<9.2	<9.2	<9.2	<3.3	<9.2	<9.2	<3.3	<9.2	<9.2	<9.2	<9.2	<9.2	<3.3	<9.2	<9.2	<9.2	<9.2	< 0.025	< 0.025	< 0.025		< 0.025	< 0.025	< 0.075
NC-SS-TW12	07/18/13	5-6	0	<0.16	4.5	11.6	0.17 J	6.8	8.8	4.5	0.06	6.3	<0.56	<0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.025	<0.025	< 0.025	< 0.025	<0.025	<0.025	< 0.075
SB1 (0-2)	02/23/16	0-2	<1	<0.33	2.0	-	-	-	-	12.1	-	13.7	-	-	<0.37	0.576	<0.51	2.60	2.93	7.14	4.53	2.48	5.68	2.19	4.61	<0.51	4.29	0.676	0.934	1.24	2.73	3.55	-	-	-	-	-	-	-
SB1 (7)	02/23/16	/	<1	< 0.30	0.93	-	-	-	-	4.0	-	/.5	-	-	-	-	-	-	-	- 1 E O	-	-	- 1 1 4	-	- .1 E	-	- 1 4 E	-	-	-	-	-	-	-	-	-	-	-	-
SB2 (0-2) SB2 (6-8)	02/23/16 02/23/16	0-2 6-8	<1 <1	<0.33 <0.27	4.2 0.61	-	-	-		8.9 1.6	-	13.1	-	-	<0.36	<0.32	<0.49	1.18	<0.98	1.59	1.39	1.13	1.16	<1.3	<1.5	<0.49	1.45	<0.32	<0.49	0.529	<1.2	<1.1	-	-	-	-	-	-	
SB3 (0-2)	02/23/16		<1	< 0.32	2.7	_	_	_	_	8.9	_	5.2	_	_	5.61	11.4	31.5	107	138	276	82.4	64.5	159	19.9	217	5.31	78.0	11.9	13.5	11.9	77.9	195	_	-	_	_	_	_	-
SB3 (8)	02/23/16	8		0.515	0.93	-	-	-	-	1.0	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1
SB4 (0-2)	02/23/16	0-2	<1	<0.32	4.9	-	-	-	-	9.7	-	18.4	-	-	<0.36	<0.32	<0.50	1.80	2.33	3.77	3.58	1.55	2.86	<1.4	2.36	<0.50	2.40	<0.32	<0.50	0.404	1.36	2.42	-	-	-	-	-	-	- 1
SB4 (8)	02/23/16			0.477	1.2	-	-	-	-	1.3	-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB5 (0-2)	02/23/16		<1	0.988	1.5	-	-	-	-	36.3	-	102	-	-	0.379	0.484	0.559	2.57	2.67	6.16	4.3	2.19	4.88	1.41	5.92	<0.48	3.70	1.16	1.51	1.40	2.94	5.40	< 0.027				<0.027	<0.25	< 0.036
DUP 4 (SB5 0-2)	02/23/16	0-2	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			< 0.022			< 0.025	< 0.036
SB6 (0-2) SB6 (10)	02/23/16 02/23/16	0-2 10	<1 <1	-	3.9	-	-	-	-	102	-	624 2.6	-	-	48.0	250	331	1,660	1,500	3,750	987	1,050	2,630	264	4,380	71.6	1,040	188	229	225	861	3,920				<0.032 <0.031			
SB7 (0-2)	02/23/16	10 0-2	<1 <1	- <0.30	0.54 7.6					1.2 157		2.6 17.2	-	-	- <0.33	- 0.356	- 2.12	- 1.89	- 1.70	- 4.00	- 2.11	2.02	- 2.82	- <1.3	- 3.21	- <0.46	- 2.27	- 0.522	- <0.46	- 0.597	- 1.95	- 2.54		~U.UIZ -	~0.022	-0.031	~0.020	~0.020	~0.037
DUP 1 (SB7 0-2)	02/23/16		<1	<0.28	5.7	-	-	-	-	234	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1
SB7 (10)	02/23/16	10		0.411	1.3	-	-	-	-	19.1	-	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	i - I
SB8 (0-2)	02/23/16	0-2	<1	0.631	1.2	-	-	-	-	5.1	-	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	, - I
SB8 (10)	02/23/16	10		0.469	3.2	-	-	-	-	2.2	-	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I - I
SB9 (0-2)	02/23/16		<1	<0.30	4.9	-	-	-	-	42.9	-	10.1	-	-	< 0.33	< 0.29	< 0.45	0.860	< 0.90	<1.0	<1.2	<1.0	1.11	1.33	<1.4	< 0.45	<1.2	< 0.29		0.444	<1.1	<1.0	<0.029	<0.013	0.0413	< 0.032	<0.029	<0.027	<0.039
DUP 3 (SB9 0-2)	02/23/16	0-2 10 5	<` _1	- 0.275	-	-	-	-	-	-	-	-	-	-	<0.33	0.793	0.827	7.58	7.28	14.6	6.31	4.13	11.2	1.62	13.8	<0.46	5.32	1.91	2.45	2.80	8.78	11.8	-	-	-	-	-	- - 0 0 25	-
SB9 (10.5) SB10 (0-2)	02/23/16 02/23/16	10.5 0-2	<1 <1	0.275 <0.33	0.44 3.2		_		_	0.58 127		1.7 10.9	-	-	- 0.634	- 242	- 2.68	- 22.9	- 23.8	- 47.3	- 21.8	- 12.9	- 33.8	- 5.18	- 44.6	- 1.02	- 19.9	- 2.6	- 3 1 3	- 6.14	- 20.4	- 36.0				0.0425 <0.035		<0.025 <0.029	
DUP 2 (SB10 0-2)	02/23/16		<1	< 0.33	3.2 4.2	-	-	-	-	15.7	-	8.0	-	-	-	-	-	-		-		-	-	-		-	-	-	-	-	- 20.4		-	-	-	-	-	-	-
SB10 (10)	02/23/16	10	<1	1.07	1.5	-	-	-	-	2.7	-	2.9	-	-	<0.30	<0.27	<0.41	1.76	1.50	2.23	1.38	1.12	1.71	<1.1	2.62	<0.41	1.28	<0.27	0.468	0.451	1.45	2.37	< 0.027	<0.012	<0.022	0.0409	<0.027	<0.025	<0.036
			. 1					1	1						2.30					0					2				2.100		0	,	. 5.027						

									Me	etals												olynucle	ear Arom	natic Hyd	drocarbor	IS									Volatile C	Drganic C	ompound	ds	
Sample Number	Date Collected	Depth (feet below grade)	PID Response (iui)	Cyanide	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	1 , 2, 4 - Trimeth yl - benzene	Ethylbenzene	Dichloro- difluoromethane	Methylene Chloride	Napthalene	Toluene	Xylenes, Total
Direct Contact RC	CL (non-ind	ustrial)		27.1	0.677	15,300	71.1	NE	3,130	400	3.13	1,550	391	391	3.59E+06	NE	1.79.E+07	1,140	115	1,150	NE	11,500	115,000	115	2.39.E+06	2.39.E+06	1,150	17,600	239,000	5,520	NE	1.79.E+06	219	8.02	126	61.8	5.52	818	260
Groundwat	er Protectio	on RCL		4.04	0.584	164.8	0.752	360,000	91.6	27	0.208	13.1	0.52	0.85	NE	NE	196,949	NE	470	478	NE	NE	144	NE	88,878	14,830	NE	NE	NE	658	NE	54,545	1.3787	1.57	3.0863	0.0026	0.6582	1.1072	3.96
CE	08/23/18	0-0.5	<1	-	5.9	100.0	1.2 B	21.0	-	290	0.2	-	<0.75 F1	0.23 J	14 J	33 J	92	500	600	880	360	370	660	140	1300	26 J	480	<11	<8.0	<6.7	640	830	-	-	-	-	-	-	-
SS-2	10/09/18	0-0.5	<1	-	11	95 F1	15 F1 B	20 F1 F2	-	420 F2	0.13	-	1.4 F1	0.27 J	<7.0	22 J	25 J	120	150	290	72	74	160	18 J	270	7.3 J	65	13 J	17 J	17 J	130	220	-	-	-	-	-	-	-
1W-Porch	12/14/18	0-0.5	<1	-	9.3	140 V	0.16 J B	30 V	-	14 F1	0.057	-	-	6.1 F1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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1S-Central	12/14/18	0-0.5	<1	-	7.6	100	0.20 J B	27	-	14	0.061	-	-	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2S-Central	12/14/18	0-0.5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39 J	38 J	-	-	-	-	-	32 J	-	-	-	-	-	-	-	-	-	-	-	-

Notes: WDNR Soil RCL Summary table (June 2018 update) was used to establish RCLs for groundwater protection and direct contact. Only VOCs detected in at least one 2016 soil sample are shown on this table.

<x = compound not detected to a detection limit of x</pre>

= no analysis performed for this constituent

Soil excavated; data no longer considered representative of Site conditions Heavy metal concentration greater than BTV, direct contact RCL, and soil to groundwater RCL

Pb, Cd, and/or Ni concentration greater than BTV and could pose a risk to groundwater quality, but not to direct contact

PAH concentration greater than direct contact RCL, but less than soil to groudnwater RCL

PAH concentration greater than direct contact RCL and the soil to groundwater RCL

Se and/or PAH concentration greater than soil to groundwater RCL, but less than direct contact RCL

All concentrations are dry weight corrected.

2013 samples were collected by AECOM and analyzed by Pace Analytical. 2016 samples were collected by Stantec and analyzed by CT Laboratories

iui = instrument units as isobutylene

J = analyte detected between the limit of detection and limit of quantification

mg/kg = milligrams per kilogram

F1 = MS and/or MSD Recovery is outside acceptance limits.

B = Compound was found in the blank and sample.

F2 = MS/MSD RPD exceeds control limits

V = Serial Dilution exceeds the control limits

NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table RCL = residual contaminant level

VOC = volatile organic compound

Appendix A MAY 2018 SOIL DISPOSAL DOCUMENTATION June 10, 2019

Appendix A MAY 2018 SOIL DISPOSAL DOCUMENTATION



Plea	ae pri	int or type. (Form desig	ned for use on elite (12-pitch) ty	pewriter.)				-	La Marta T	- Ilin - Manufa	
1		ON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	262-2	ency Response 55-4468				06-03
	V 4 V Gene	enerator's Name and Maillin Washington Count 132 E. Washingtor West Bend WI 53 erator's Phone: 282	V) St. 3095 355-4445			Generator 3	's Site Address	(if different th	an mailing addre 5/in	get.	WF
	6. Tra	ansporter 1 Company Nam	е						U.S. EPA ID	/	
		North Shore Env ansporter 2 Company Nam	vironmental Construc ®	tion Inc					U.S. EPA ID		117258
									U.S. EPA ID	Number	AAA
	V V N	esignated Facility Name an AM Orchard Ridg Av124 N8925 Bour Menomonee Falls Ity's Phone: <u>282 25</u>	e RDF ndary Rd WI 53051							Number	1º
	9a.	10 11 0 11	on (including Proper Shipping Name,	Hazard Class, ID Numbe	er,	-	10. Contai No.	1	11. Total Quantity	12. Unit Wt./Vol.	
	HM					-	INO.	Туре	country	WL/VOI.	
GENERATOR		Construction &	Demolition Materials				001	DT	00020	т	
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		3.									
	/	4.									
1		Special Handling Instruction	ns and Additional Information		-	-)		1	1 1	
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+				1							
			CATION: I certify the materials des	cribed above on this man			eral regulations f	or reporting p	oroper disposal o	f Hazardous Wa	ste. Month Day Year
ļ		erator's/Offeror's Printed/Ty	vped Name	•	s	Signature					
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RANSP	Tran	nsporter 2 Printed/Typed Na	ame /		s	Signature		/			Month Day Year
	17.0	Discrepancy									
		Discrepancy Indication Sp	pace Quantity	Туре			Residue		Partial R	ejection	Full Rejection
		Ali				M	anifest Reference	e Number:	U.S. EPA ID	Number	
SILITY	17b.	. Alternate Facility (or Gene	eratof)						5.6. LI AIL		
FAC	Faci	ility's Phone:									Month Day Vor
DESIGNATED FACILITY	17c.	. Signature of Alternate Fac	illity (or Generator)							_	Month Day Year
DESIG								_			
1	10	Designated Easility Ourses	or Operator: Certification of receipt of	of materials covered by the	e manifest exce	ept as noted	in Item 17	2)		
		Designated Facility Owner ted/Typed Name	or Operator. Cerunication of receipt of	n materials covered by th		Signature	C	2	5		Month Day Year

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19355 Boundarv mee Falls, WI, 362) 253-8620 7 NORTH SHORE	53051		riginal icket# 164946	
7 NORTH SHORE	Carriar MODTLO			3
	Vehicle# 46 Container Driver Check# Billino # 0000 Gen EPA ID Grid		HGHORE ENV Volume	
Bound CH	berator IOFFMA3 JINDT		re 3 L	9780 1) 4380 1) 5380 1) 2.84
նեւ ՍՕМ	l Rate	Tax Amo	unt Ori	(137)
		Qty LOM Rate 2.67 Tons		

2.2

Total Tax Total Ticket

403WM-N Driver's Signature

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Plea		nt or type. (Form designed on the second s	gned for use on elite (12-pitch) 1. Generator ID Number	typewriter.)	2. Page 1 of	3. Emergency Res	oonse Phor	ne	4. Waste Tr	racking Numk	ber,		
Î	200	ASTE MANIFEST	-		1	282-285-44	88				008-	02	
	43 Vi	nerator's Name and Mail 32 E. Mashingto Vest Bond W. S rator's Phone: 282	n St			Generator's Site Ad 310 Oak St. Slinger M	dress (if diff	ferent th	an mailing addre	255)			
	6. Trai	nsporter 1 Company Nar	4	ction inc					U.S. EPA ID		117	2 5	8
	7. Trai	nsporter 2 Company Nar	ne						U.S. EPA ID	Number	-	1.0	
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	9a. HM	9b. U.S. DOT Descript and Packing Group (if	ion (including Proper Shipping Nam any))	e, Hazard Class, ID Number,		10. C	ontainers	Гуре	11. Total Quantity	12. Unit Wt./Vol.			v.
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ED FACI		y's Phone: ignature of Alternate Faci	lity (or Generator)								Month	Day	Year
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+		signated Facility Owner of J/Typed Name	or Operator: Certification of receipt of	of materials covered by the m		as noted in Item 17a nature	lun .	P	2	10-	Month	Day	Year
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WASTE MANAGEMENT	Orchard Ridoe RI W124 N9355 Bound Menomonee Falls. Ph: (262) 253-84	larv Road . WI. 53051		Oricinal Ticket#	
Customer Name NORTHSH Ticket Date 05/24/2 Payment Type Credit Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 08R006- Destination PO Profile () Generator	018 Account	ORE Carrier ND Vehicle# 45 Container Driver Check# Dilling # Gen EPA ID Grid		NORTHSHORE Volume	
Time In 05/24/2018 15:05 Out 05/24/2018 15:31 Comments		Operator SBIRD1 JGINDT	Inbound	Gross Tare Net Tons	41860 lb 34060 lb 7500 lb 3.90
Product	LD% Qtv	UOM Rate	Τeι×	Amount	Origin
1 2000T-C&D TON	100 3.90	Tons	ine lea ant màisea an an sua i na sàsairt a	an ei ar in artista at niteration	WI

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Total Tax Total Ticket

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WA	N-HAZARDOUS ASTE MANIFEST	1. Generator ID Number) typewriter.)	2. Page 1 of	3. Emergency Respons 282-255-4468				ber 0 0 8 - 0 1
43 W	erator's Name and Mailin 2 E. Washington lest Bend W 53 ator's Phone: 282	n St. 3095 355-4445	ø -		Generator's Site Address 310 Oak St. Slinger W	s (if different th		(K
N		vironmental Constru	uction Inc				U.S. EPA ID	000	117258
	nsporter 2 Company Nan				<u>34-</u>		U.S. EPAID	number	1
W/ Mi	ignated Facility Name ar M Orchard Ridg 124 N8025 Bou enomonee Falls /s Phone: 262 25	ndary Rd /					Ú.S. EPA ID	Number	
9a. HM	9b. U.S. DOT Descripti and Packing Group (if a	ion (including Proper Shipping Na any))	me, Hazard Class, ID Nu	mber,	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	
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3-DESIGNATED FACILITY TO GENERATC





WASTE MANAGEMENT	Orchard Ridde RDF W124 N7355 Boundar Menomonee Falls. W Ph: (262) 253-8620	AI. 53051	α.	Oricinal Ticket#	
Customer Name NORTHSHO Ticket Date 05/24/20 Payment Type Credit A Manual Ticket# Hauling Ticket# - Route State Waste Code A-24- Manifest 02R00601 Destination PD Profile 129024WI Generator 136-WASH	>18 Account -06 - (NIPHOS COATINGS 8	Vehicle# Container Driver Check# Billinc # Gen EPA II Grid SOIL EXCAVATIO)	NORTHSHORE Volume	0.000 / 0
Time In 05/24/2010 13:37: Out 05/24/2018 14:05: Comments	23 InBound	Operator CHOFFMA3 CHOFFMA3	Inbound	Gross Tare Net Tons	59980 15 34440 15 25540 15 12.77
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Total Tax Total Ticket

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Appendix B DECEMBER 2018 SOIL DISPOSAL DOCUMENTATION June 10, 2019

Appendix B DECEMBER 2018 SOIL DISPOSAL DOCUMENTATION





NON-HAZARDOUS MANIFEST

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	NON-HAZARDOUS MANIFEST	1. Generator's	US EPA ID	No.	Ma	nifest Doc N	vo.	2. Page 10		4	6	
1	3. Generator's Mailing Address: Washington County		Washi	ngton C	ounty	fferent than m	ailling):	A. Manifes	Number			
	432 E. Washington St. West Bend WI 53095 4. Generator's Phone (262)	335-4445		Washin Bend WI	gton St. 53095				B. State C	Generator's IC)	
-	5. Transporter 1 Company Name	000 1110	1	5.	US EPA I	Number					Contraction of the local data	
	5. 110.159-51-5		1						ansporter's If	>		
								D. Transpo	rter's Phone		1	
1	7. Transporter 2 Company Name			3.	US EPA II) Number		E. State Tr	ansporter's II)	a	
1								and and a state of the state of	rter's Phone			
ł	9. Designated Facility Name and Si	e Address		10.	US EPA	ID Number						1
	Orchard Ridge RDF							G. State Fa	icility ID			
	W124 N9355 Boundary Road	i						H. State Fa	cility Phone	262-253	-8620	
	Menomonee Falls, WI 5305											
1					1						in the second	
-	11. Description of Waste Materials					12. Ce No.	Type	13. Total Quantity	14. Unit Wt./Vol.	L. Mis	c. Comments	5
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	15. Special Handling Instructions a	na Additional init	ormation									
	Purchase Order #	and an advantage of the second state of the second se		EME	RGENCY COM	TACT / PHON	NE NO .:	(262) 33	5-4445	a - Prince Programma		
	and the second							1				
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-des	without motorials	are not has	ardouc wa	ictos as dof	ined by CER	Part 261 c	or any applicab	le state law.	have been fu	lly and	
	accurately described, classified an	d packaged and a	re in prope	r condition	for transp	ortation ac	cording to	applicable reg	ulations.		-	
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T	17. Transporter 1 Acknowledgem	ent of Receipt of I	Materials	-		1			an and a second seco	1	Dee	Year
RA	Printed Name 0/1			Signatu	He /					Month	Day	18
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	19. Certificate of Final Treatment	/Disposal		and the	in the				and the second state	11-	no ustala -4	ŧ
FAC	I certify, on behalf of the above in	ted treatment fac	cility, that	to the best	of my kno	wledge, the	above-des	cribed waste	was manage	u in complian	ce with al	
1	applicable laws, regulations, perm 20. Facility Owner or Operator: 0	nits and licenses o	on the date	s listed abd	is material	covered h	this mani	fest.				
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			TO	120100
WASTE MANAGEMENT	Orchard Ridde ROF Wi24 N9355 Boundar Menomonee Falls. W Ph: (262) 253-8620	I. 53031	Original Tickgt# 1707	7829
Ticket Date 12/1 Payment Type Crad Manual Ticket# Hauling Ticket# Route State Waste Code A Manifest na Destination PO Profile 1290	it Account	Vehicle# 46 Container Driver Check# Dilling # 0003345 Gen EPA ID Grid Crid	NGRTHØHORE ENV Velune	
Time In 12/14/2013 13 Out 12/14/2013 14		Operator Inbound sbird1 sbird1	l Bross Tare Net Tons	69780 lb 35200 lb 33580 lb 16.27

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403WM-N Griver's Signature



NON-HAZARDOUS MANIFEST

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3. Generator's Mailing Address: Washington County 432 E. Washington St. West Bend WI 53095		Washi 432 E.	or's Site Addre ngton Cour Washingto Bend WI 531	n St.	ailing):	A. Manifes WN	INA	enerator's je	21	es
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							rter's Phone	Construction of the second		
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9. Designated Facility Name and S Orchard Ridge RDF			10. U	S EPA ID Number		G. State Fa	cility ID cility Phone	262-253	-8620	
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Purchase Order #			EMERGEN	NCY CONTACT / PHO	INE NO.:	(262) 3	35-4445			No. of Concession, Name
15. GENERATOR'S CERTIFICATE:							to shake low	have been fi	hand	
I hereby certify that the above-d	escribed materials	are not ha	zardous wastes	as defined by CF	R Part 261	annlicable reg	ulations.	nave been it	iny and	
accurately described, classified a	nd packaged and a	are in prope	Signature		Leorang to	appression of		Month	Day	Year
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1 17. Transporter 1 Acknowledge		Materials	2	11						
Printed Name	i e-		Signature	l				Month 12	Day 14	Year 20/1
P 18. Transporter 2 Acknowledge	ment of Receipt of	f Materials		and the second secon					Day	Year
Printed Name	ansporter 2 Acknowledgement of Receipt of M nted Name							Month	Uay	, teat
 a 19. Certificate of Final Treatme F I certify, on behalf of the above applicable laws, regulations, pe 	listed treatment fa rmits and licenses	on the date	s listed above.			Constitution and in the owners of the state	was manage	d in complia	nce with	all
20. Facility Owner or Operator:	Certification of re	eceipt of no	n-hazardous m	aterials covered I	by this man	ifest.			1	
T Pristed Name			Signature					Month	Day	Year
*			S	\bigcirc				14	114	118

13.63



WASTE MANAGEMENT	Orchard Ridge RDF W124 N9355 Boundarv Menomonee Falls. WI. Ph: (262) 253-8620		Original Ticket#	
Ticket Date 12/14 Payment Type Credi Manual Ticket# Hauling Ticket# Route State Waste Code A- Manifest na Destination PD Profile 1290	t Account	Vehicle# 45 Container Driver Check# Billing # 0003345 Gen EPA ID Grid AL EXCAVATION WM01CA)	EENV NORTHSHORE Valume	
Time In 12/14/2018 11	:28:47 InBound sl)perator Inb sird1 sird1	cund Gross Tare Nei	72660 15 35300 15 27360 15

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4.4	Cont Soil Sp. W	100	13.48	Tons				WI

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Total Tax Total Ticket

Tons

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1. 3	Senerator's Name an Assentington 432 E. Abasi West Bend	nd Mailing Address Clourny him aton St. 441 53095		1	Generato	r's Site Address (i	f different tha	n mailing addres	S)		
	nerator's Phone: Transporter 1 Compa Nighth Sho	262 355-4 any Name re Environmental Constr			<u> </u>			U.S. EPAID N	lumber (0 0	011	7250
7.3	Transporter 2 Comp	any Name						U.S. EPAID N	umber		
	W124 NB92 Menomonie olity's Phone: 22	Name and Sile Address of Rooge Roth 6 Boundary Rd 9 Falls VA 53051 52 253-8620						U.S. EPA ID N		<u></u>	
9: H	the is a strength of the stren	Description (including Proper Shipping Nan Group (if any))	ne, Hazard Class, ID Numb	ëf,	~	10. Contain No.	ers Type	11, Total Quantity	12. Unit WL/Vol.		
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	4 ⁴	¥									
	4. GENERATOR'S	S CERTIFICATION: 1 certify the materials	described above on this ma	nifest are not st	ibject to le	deral regulations f	or reporting p	proper disposal o	Hazardous	Waste. Moi	nth Day Ye
G	ienerator's/Offeror's	Printed/Typed Name		1	Signature	and the second s				12	
1	5. International Ship Fransporter signature	e (for exports only):		Export fro	m U.S.	Port of er Date leav					
	6 Transporter Ackno ransporter 1 Printed	wiedgment of Receipt of Materials		1	Signature					Mo	
1	ransporter 2 Printed	I/Typed Name		1	Signature					Mo	nth Day Ye
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1.1111	17b. Alternate Facilit	iy (or Generator)				Manifest Referenc	e Number:	U.S. EPA IC) Number		
הבסופואשו בע בעעובור ו	Facility's Phone: 17c. Signature of Ait	ernate Facility (or Generator)								M	onth Day Y
. 1											
	18. Designated Fac Printed/Typed Nam	lity Owner or Operator: Certification of rect	eipt of materials covered by	the manifest ex	cept as not Signature	ed in Kem 17a				J. Starting	onth Day Y
-NI-	IM-C-C-11	5			- 4)'			and the second	1/ Barriell	
									E 7	DAMCD/	DETER'S CO

WASTE MANAGEMENT	Orchard Ridge RI W124 N9355 Round Menomonee Falls. Ph: (262) 253-86	larv Road WI. 53051		Original Ticket∛	
Customer Name NORTHSHO Ticket Date 12/14/20 Payment Type Credit A Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 00879 Destination PD Profile () Generator	15	IORE Carrier NC Vehicle# 44 Container Driver Check# Billing # Gen EPA ID Grid	0000117	VORTH3HORE Valume	
Time In 12/14/2018 07:47: Dul 12/14/2018 10:05: Comments		Operator sbird1 sbird1	Intiound	Bross Tare Net Tons	38120 15 35340 15 2780 16 1.37
secondered (9 19					

Pro	churt	L.D%	Qtv	LICIM	Rate	Tax	Amount	Origan
	an ang ing ing ing ing ing ing ing ing ing i		the set one and the art and the se	a and an an an order and the second	the second		(a,b) as the $((a,b), a) \in (a)$ may let $((a,b), (a,b), (a,b)) \in (a,b)$. The first fraction matrix and the point $(1,1)$ -matrix $(2,1)$
4	2000T-CED TON	100	1.02	Tons				14 I

Total Tax Total Ticket

100

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Appendix C SOIL SAMPLE LABORATORY ANALYSIS REPORTS AND CHAIN-OF-CUSTODY RECORDS June 10, 2019

Appendix C SOIL SAMPLE LABORATORY ANALYSIS REPORTS AND CHAIN-OF-CUSTODY RECORDS





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

TestAmerica Job ID: 500-150495-1 Client Project/Site: Niphos - 193705875

For:

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

www.testamericainc.com

Visit us at:

Expert

Stantec Consulting Corporation/Bonestroo 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092

Attn: Nathan Posewitz

sanda pedich

Authorized for release by: 8/31/2018 1:49:10 PM Sandie Fredrick, Project Manager II (920)261-1660 sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	8
QC Association	9
Surrogate Summary	10
QC Sample Results	11
Chronicle	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	17

Job ID: 500-150495-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-150495-1

Case Narrative

Comments

No additional comments.

Receipt

The sample was received on 8/25/2018 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: CE

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	4
1-Methylnaphthalene	13	J	79	9.6	ug/Kg	1	₽	8270D	Total/NA	4
2-Methylnaphthalene	17	J	79	7.2	ug/Kg	1	₽	8270D	Total/NA	5
Acenaphthylene	22	J	39	5.2	ug/Kg	1	₽	8270D	Total/NA	5
Anthracene	25	J	39	6.5	ug/Kg	1	¢	8270D	Total/NA	0
Benzo[a]anthracene	120		39	5.3	ug/Kg	1	₽	8270D	Total/NA	0
Benzo[a]pyrene	150		39	7.6	ug/Kg	1	₽	8270D	Total/NA	
Benzo[b]fluoranthene	290		39		ug/Kg	1	¢	8270D	Total/NA	
Benzo[g,h,i]perylene	72		39	13	ug/Kg	1	₽	8270D	Total/NA	
Benzo[k]fluoranthene	74		39	12	ug/Kg	1	₽	8270D	Total/NA	8
Chrysene	160		39	11	ug/Kg	1	¢.	8270D	Total/NA	
Dibenz(a,h)anthracene	18	J	39			1	¢	8270D	Total/NA	9
Fluoranthene	270		39	7.3	ug/Kg	1	₽	8270D	Total/NA	
Fluorene	7.3	J	39		ug/Kg	1	Ϋ́,	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	65		39		ug/Kg	1	₽	8270D	Total/NA	
Naphthalene	17	J	39		ug/Kg	1	¢	8270D	Total/NA	
Phenanthrene	130		39		ug/Kg	1	φ.	8270D	Total/NA	
Pyrene	220		39		ug/Kg	1	¢	8270D	Total/NA	
Arsenic	11		1.2		mg/Kg	1	¢	6010B	Total/NA	
Barium	95	F1	1.2		mg/Kg	1	φ.	6010B	Total/NA	12
Cadmium	15	F1 B	0.23			1	¢	6010B	Total/NA	13
Chromium	20	F1 F2	1.2	0.57	mg/Kg	1	¢	6010B	Total/NA	
Lead	420	F2	0.58			1	φ.	6010B	Total/NA	
Selenium	1.4	F1	1.2	0.68	mg/Kg	1	¢	6010B	Total/NA	
Silver	0.27	J	0.58		mg/Kg	1	₽	6010B	Total/NA	
Mercury	0.13		0.019	0.0062		1	¢	7471A	Total/NA	

Method Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos - 193705875

lethod	Method Description	Protocol	Laboratory
270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
010B	Metals (ICP)	SW846	TAL CHI
471A	Mercury (CVAA)	SW846	TAL CHI
loisture	Percent Moisture	EPA	TAL CHI
050B	Preparation, Metals	SW846	TAL CHI
541	Automated Soxhlet Extraction	SW846	TAL CHI
471A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos - 193705875 TestAmerica Job ID: 500-150495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-150495-1	CE	Solid	08/23/18 14:45	08/25/18 09:20

Client Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos - 193705875

Lab Sample ID: 500-150495-1

Mercury

Client Sample ID: CE

Date Collected: 08/23/18 14:4	5						-	Matrix	: Solid	
Date Received: 08/25/18 09:2	0							Percent Solid	ls: 83.3	
Method: 8270D - Semivolati	le Organic Co	mpounds (G	SC/MS)							
Analyte	-	Qualifier	ŔL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
1-Methylnaphthalene	13	J	79	9.6	ug/Kg	₩ Ţ	08/27/18 17:17	08/28/18 15:52	1	
2-Methylnaphthalene	17	J	79	7.2	ug/Kg	₽	08/27/18 17:17	08/28/18 15:52	1	
Acenaphthene	<7.0		39	7.0	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Acenaphthylene	22	J	39	5.2	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	7
Anthracene	25	J	39	6.5	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Benzo[a]anthracene	120		39	5.3	ug/Kg	₽	08/27/18 17:17	08/28/18 15:52	1	8
Benzo[a]pyrene	150		39	7.6	ug/Kg	¢.	08/27/18 17:17	08/28/18 15:52	1	
Benzo[b]fluoranthene	290		39	8.4	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	C
Benzo[g,h,i]perylene	72		39	13	ug/Kg	₽	08/27/18 17:17	08/28/18 15:52	1	
Benzo[k]fluoranthene	74		39	12	ug/Kg	¢.	08/27/18 17:17	08/28/18 15:52	1	
Chrysene	160		39	11	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Dibenz(a,h)anthracene	18	J	39	7.6	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Fluoranthene	270		39	7.3	ug/Kg	¢.	08/27/18 17:17	08/28/18 15:52	1	
Fluorene	7.3	J	39	5.5	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Indeno[1,2,3-cd]pyrene	65		39	10	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Naphthalene	17	J	39	6.0	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Phenanthrene	130		39	5.5	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	
Pyrene	220		39	7.8	ug/Kg	¢	08/27/18 17:17	08/28/18 15:52	1	1

MDL Unit

0.39 mg/Kg

0.13 mg/Kg

D

Prepared

08/28/18 08:34

* 08/28/18 08:34 08/28/18 16:15

Analyzed

Dil Fac

1

1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		44 - 121	08/27/18 17:17	08/28/18 15:52	1
Nitrobenzene-d5 (Surr)	91		41 - 120	08/27/18 17:17	08/28/18 15:52	1
Terphenyl-d14 (Surr)	92		35 - 160	08/27/18 17:17	08/28/18 15:52	1

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL
Arsenic	11		1.2
Barium	95	F1	1.2
Cadmium	15	F1 B	0.23
			4.0

Method: 7471A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.27	J	0.58	0.15	mg/Kg	¢	08/28/18 08:34	08/28/18 16:15	1
Selenium	1.4	F1	1.2	0.68	mg/Kg	¢	08/28/18 08:34	08/28/18 16:15	1
Lead	420	F2	0.58	0.27	mg/Kg	¢	08/28/18 08:34	08/28/18 16:15	1
Chromium	20	F1 F2	1.2	0.57	mg/Kg	¢	08/28/18 08:34	08/28/18 16:15	1
Cadmium	15	F1 B	0.23	0.041	mg/Kg	¢	08/28/18 08:34	08/28/18 16:15	1

Result	Qualifier	RL	MDL	Unit	υ	Prepared	Analyzed	DIFac	
0.13		0.019	0.0062	mg/Kg	 ÿ	08/28/18 15:45	08/29/18 12:26	1	

Qualifiers

GC/MS Semi VOA

	: Niphos - 193705875	
Qualifier	6	
GC/MS Ser	ni VOA	
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
Metals		
Qualifier	Qualifier Description	
F1	MS and/or MSD Recovery is outside acceptance limits.	
В	Compound was found in the blank and sample.	
F2	MS/MSD RPD exceeds control limits	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	Q
F3	Duplicate RPD exceeds the control limit	0
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.	9
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	4
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

QC Association Summary

GC/MS Semi VOA Prep Batch: 447224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-150495-1	CE	Total/NA	Solid	3541	
MB 500-447224/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-447224/2-A	Lab Control Sample	Total/NA	Solid	3541	
nalysis Batch: 4472	69				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
MB 500-447224/1-A	Method Blank	Total/NA	Solid	8270D	44722
LCS 500-447224/2-A	Lab Control Sample	Total/NA	Solid	8270D	44722
nalysis Batch: 4472	76				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-150495-1	CE	Total/NA	Solid	8270D	44722
letals					
rep Batch: 447288					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-150495-1	CE	Total/NA	Solid	3050B	
MB 500-447288/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-447288/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-150495-1 MS	CE	Total/NA	Solid	3050B	
500-150495-1 MSD	CE	Total/NA	Solid	3050B	
500-150495-1 DU	CE	Total/NA	Solid	3050B	
Prep Batch: 447343					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-150495-1	CE	Total/NA	Solid	7471A	
MB 500-447343/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-447343/13-A	Lab Control Sample	Total/NA	Solid	7471A	
Analysis Batch: 4474	80				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-150495-1	CE	Total/NA	Solid	6010B	44728
MB 500-447288/1-A	Method Blank	Total/NA	Solid	6010B	44728
LCS 500-447288/2-A	Lab Control Sample	Total/NA	Solid	6010B	44728
500-150495-1 MS	CE	Total/NA	Solid	6010B	44728
500-150495-1 MSD	CE	Total/NA	Solid	6010B	44728
500-150495-1 DU	CE	Total/NA	Solid	6010B	44728
Analysis Batch: 4476	09				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
500-150495-1	CE	Total/NA	Solid	7471A	44734
MB 500-447343/12-A	Method Blank	Total/NA	Solid	7471A	44734
LCS 500-447343/13-A	Lab Control Sample	Total/NA	Solid	7471A	44734
General Chemist	У				
	•				
General Chemisti Analysis Batch: 4471 Lab Sample ID 500-150495-1	•	Ргер Туре	Matrix Solid	Method	Prep Batc

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid		-		-	Prep Type: Total/NA
			Pe	ercent Surro	gate Recovery (Acceptance Limits)
		FBP	NBZ	TPHL	
Lab Sample ID	Client Sample ID	(44-121)	(41-120)	(35-160)	
500-150495-1	CE	93	91	92	
LCS 500-447224/2-A	Lab Control Sample	91	101	88	
MB 500-447224/1-A	Method Blank	90	94	113	

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Client Sample ID: Method Blank

Prep Type: Total/NA

5

11

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-447224/1-A Matrix: Solid

Analysis Batch: 447269								Prep Batch:	447224
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Acenaphthene	<6.0		33	6.0	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Anthracene	<5.6		33	5.6	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Chrysene	<9.1		33	9.1	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Fluorene	<4.7		33	4.7	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/27/18 17:17	08/28/18 11:28	1
Pyrene	<6.6		33	6.6	ug/Kg		08/27/18 17:17	08/28/18 11:28	1

	IVID	IVID	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	90		44 - 121
Nitrobenzene-d5 (Surr)	94		41 - 120
Terphenyl-d14 (Surr)	113		35 - 160

Lab Sample ID: LCS 500-447224/2-A Matrix: Solid Analysis Batch: 447269

Spike LCS LCS %Rec. Analyte Added **Result Qualifier** Unit D %Rec Limits 1-Methylnaphthalene 1330 1200 ug/Kg 90 61 - 110 2-Methylnaphthalene 1330 1210 91 ug/Kg 62 - 110 Acenaphthene 1330 1240 ug/Kg 93 62 - 119 Acenaphthylene 1330 1210 91 ug/Kg 60 - 110 Anthracene 1330 1070 80 ug/Kg 63 - 110 101 Benzo[a]anthracene 1330 1350 ug/Kg 67 - 122 Benzo[a]pyrene 1330 1390 104 61 - 120 ug/Kg Benzo[b]fluoranthene 1330 1450 109 64 - 127 ug/Kg ug/Kg Benzo[g,h,i]perylene 1330 1470 110 65 - 132 Benzo[k]fluoranthene 1330 1320 99 65 - 120 ug/Kg Chrysene 1330 1250 ug/Kg 94 63 - 120 1330 1340 101 64 - 119 Dibenz(a,h)anthracene ug/Kg Fluoranthene 1330 1150 ug/Kg 86 62 - 120 Fluorene 1330 1100 83 62 - 120 ug/Kg Indeno[1,2,3-cd]pyrene 1330 1310 98 57 - 127 ug/Kg Naphthalene 95 1330 1270 ug/Kg 63 - 110 Phenanthrene 1330 96 1290 ug/Kg 62 - 120 Pyrene 1330 86 61 - 128 1140 ug/Kg

Client Sample ID: Lab Control Sample

08/27/18 17:17 08/28/18 11:28

08/27/18 17:17 08/28/18 11:28

08/27/18 17:17 08/28/18 11:28

Prepared

Prep Type: Total/NA Prep Batch: 447224

Analyzed

Dil Fac

1

1

1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Lab Sample ID: LCS 500-447224/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 447269 Prep Batch: 447224 LCS LCS %Recovery Qualifier Surrogate Limits 2-Fluorobiphenyl 91 44 - 121 Nitrobenzene-d5 (Surr) 101 41 - 120 Terphenyl-d14 (Surr) 35 - 160 88 Method: 6010B - Metals (ICP) Lab Sample ID: MB 500-447288/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 447480 Prep Batch: 447288 MB MB MDL Unit Dil Fac Analyte **Result Qualifier** RL D Prepared Analyzed Arsenic < 0.34 1.0 0.34 mg/Kg 08/28/18 08:34 08/28/18 15:51 1 Barium <0.11 1.0 0.11 mg/Kg 08/28/18 08:34 08/28/18 15:51 1 Cadmium 0.0596 J 0.20 0.036 mg/Kg 08/28/18 08:34 08/28/18 15:51 1 Chromium <0.50 0.50 mg/Kg 10 08/28/18 08:34 08/28/18 15:51 1 Lead <0.23 0.50 0.23 mg/Kg 08/28/18 08:34 08/28/18 15:51 1 Selenium <0.59 0.59 mg/Kg 08/28/18 08:34 08/28/18 15:51 10 1 Silver 08/28/18 08:34 08/28/18 15:51 < 0.13 0.50 0.13 mg/Kg 1 Lab Sample ID: LCS 500-447288/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 447480 **Prep Batch: 447288** Spike LCS LCS %Rec. Added Analyte **Result Qualifier** Unit D %Rec Limits Arsenic 10.0 8.84 mg/Kg 88 80 - 120 Barium 200 187 mg/Kg 93 80 - 120 Cadmium 5.00 4.47 mg/Kg 89 80 - 120 Chromium 20.0 18.2 91 80 - 120 mg/Kg Lead 10.0 9.09 mg/Kg 91 80 - 120 Selenium 10.0 8.74 mg/Kg 87 80 - 120 Silver 5.00 86 80 - 120 4.31 mg/Kg

Lab Sample ID: 500-150495-1 MS Matrix: Solid

Analysis Batch: 447480	Sample	Sample	Spike	MS	MS				Prep Batch: 447288 %Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	11		11.8	22.7		mg/Kg	₽	101	75 - 125
Barium	95	F1	236	395	F1	mg/Kg	¢	127	75 - 125
Cadmium	15	F1 B	5.90	8.03	F1	mg/Kg	¢	-124	75 - 125
Chromium	20	F1 F2	23.6	52.5	F1	mg/Kg	¢	138	75 - 125
Lead	420	F2	11.8	1420	4	mg/Kg	¢	8472	75 - 125
Selenium	1.4	F1	11.8	10.4		mg/Kg	¢	76	75 - 125
Silver	0.27	J	5.90	5.18		mg/Kg	¢	83	75 - 125

TestAmerica Chicago

Client Sample ID: CE

Prep Type: Total/NA

Client Sample ID: CE

Client Sample ID: CE

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-150495-1 MSD Matrix: Solid

Matrix: Solid Analysis Batch: 447480									Prep Tyj Prep Ba		
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	11		11.9	21.9		mg/Kg		93	75 - 125	4	20
Barium	95	F1	239	327		mg/Kg	¢	97	75 - 125	19	20
Cadmium	15	F1 B	5.96	7.74	F1	mg/Kg	¢	-127	75 - 125	4	20
Chromium	20	F1 F2	23.9	42.6	F2	mg/Kg	¢	95	75 - 125	21	20
Lead	420	F2	11.9	341	4 F2	mg/Kg	¢	-697	75 - 125	123	20
Selenium	1.4	F1	11.9	10.1	F1	mg/Kg	¢	73	75 - 125	3	20
Silver	0.27	J	5.96	5.23		mg/Kg	¢	83	75 - 125	1	20

Lab Sample ID: 500-150495-1 DU Matrix: Solid

Matrix: Solid Analysis Batch: 447480							Prep Type: Tot Prep Batch: 4	al/NA
-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	11		10.8		mg/Kg	— <u>¤</u> —	0.4	20
Barium	95	F1	95.8		mg/Kg	¢	0.7	20
Cadmium	15	F1 B	2.72	F3	mg/Kg	☆	140	20
Chromium	20	F1 F2	19.4		mg/Kg	¢	3	20
Lead	420	F2	280	F3	mg/Kg	☆	41	20
Selenium	1.4	F1	<0.67		mg/Kg	☆	NC	20
Silver	0.27	J	0.166	J F5	mg/Kg	¢	48	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-44 Matrix: Solid Analysis Batch: 447609	7343/12-А мв	МВ					Clie		ole ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	RL	. м	DL Unit	D	Р	repared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.00	056 mg/K	g	08/2	8/18 15:45	08/29/18 12:11	1
Lab Sample ID: LCS 500-4 Matrix: Solid Analysis Batch: 447609	47343/13-A		Spike	LCS		Clien	t Sar		Lab Control S Prep Type: To Prep Batch: %Rec.	otal/NA
Analyte			Added	Result	Qualifier	Unit	_ D	%Rec	Limits	
Mercury			0.167	0.157		mg/Kg		94	80 - 120	

12 13

Lab Sample ID: 500-150495-1

Lab Sample ID: 500-150495-1

Matrix: Solid

Matrix: Solid

Client Sample ID: CE Date Collected: 08/23/18 14:45 Date Received: 08/25/18 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	447175	08/27/18 14:20	LWN	TAL CHI

Client Sample ID: CE Date Collected: 08/23/18 14:45 Date Received: 08/25/18 09:20

Date Received	d: 08/25/18 0	9:20						Percent Solids: 83.3
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3541			447224	08/27/18 17:17	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	447276	08/28/18 15:52	GES	TAL CHI
Total/NA	Prep	3050B			447288	08/28/18 08:34	SAH	TAL CHI
Total/NA	Analysis	6010B		1	447480	08/28/18 16:15	JEF	TAL CHI
Total/NA	Prep	7471A			447343	08/28/18 15:45	MJG	TAL CHI
Total/NA	Analysis	7471A		1	447609	08/29/18 12:26	MJG	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos - 193705875

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

ſ	Authority	Program	EPA Region	Identification Number	Expiration Date
	Wisconsin	State Program	5	999580010	08-31-19

The leader in environmental 2417 Bond Street, University Park, IL 6f Phone: 708.534.5200 Fax: 708.534 Client Washing To Lawrty Client Project # Project Name	Report To Contact: <u>Aut M</u> Company: <u>Star</u> Address: <u>ICOT</u> Address: <u>Megu</u> Phone: <u>26</u> Fax: <u></u> E-Mail: <u>AUt Ma</u>	ran ntec 5 (23)	$\frac{COP}{W1}$ $\frac{W1}{3-q}$	794 <u>iz@ster</u>	Address: Phone: Fax:		(optional)			Lai Ch Pai	b Job #: <u>500</u> -	r: Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4°
Niphos Project Location/State Slinger, WI Sampler Nathan, Posevitz Lab PM	Sampling Date Time	# of Containers	PAHS PAHS	8270 RCRAMITALS								3. HN03, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
		1	\$					-				
Relinquished By Company Date		ne 12: 17:	Receiv	ed By	loots	Company Company Company Company Company	e for	_ Months Date Date Date Date	(A fee may b	re assessed if sam Time Time Time Time	nples are retained long Lab Cou Ship Hand Delive	ped Fed X

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14

Login Sample Receipt Checklist

Client: Stantec Consulting Corporation/Bonestroo

Login Number: 150495 List Number: 1 Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 500-150495-1

List Source: TestAmerica Chicago



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

TestAmerica Job ID: 500-152904-1 Client Project/Site: Niphos Coatings - 193703514

For:

Stantec Consulting Corporation/Bonestroo 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092

Attn: Rick Binder

Therese Hargaves

Authorized for release by: 10/24/2018 1:23:17 PM Therese Hargraves, Project Manager I therese.hargraves@testamericainc.com

Designee for Sandie Fredrick, Project Manager II (920)261-1660 sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

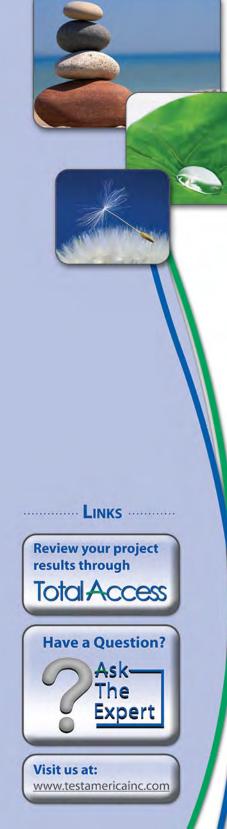


Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	8
QC Association	9
Surrogate Summary	10
QC Sample Results	11
Chronicle	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	18

Job ID: 500-152904-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-152904-1

Case Narrative

Comments

No additional comments.

Receipt

The sample was received on 10/10/2018 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514

Client Sample ID: SS-2

Lab Sample ID: 500-152904-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	4
Acenaphthene	14	J	43	7.8	ug/Kg	1	<u>Þ</u>	8270D	Total/NA	
Acenaphthylene	33	J	43	5.7	ug/Kg	1	¢	8270D	Total/NA	
Anthracene	92		43	7.3	ug/Kg	1	₽	8270D	Total/NA	
Benzo[a]anthracene	500		43	5.9	ug/Kg	1	¢.	8270D	Total/NA	
Benzo[a]pyrene	600		43	8.4	ug/Kg	1	¢	8270D	Total/NA	
Benzo[b]fluoranthene	880		43	9.4	ug/Kg	1	¢	8270D	Total/NA	
Benzo[g,h,i]perylene	360		43	14	ug/Kg	1	¢.	8270D	Total/NA	
Benzo[k]fluoranthene	370		43	13	ug/Kg	1	₽	8270D	Total/NA	
Chrysene	660		43	12	ug/Kg	1	¢	8270D	Total/NA	
Dibenz(a,h)anthracene	140		43		ug/Kg	1	Å.	8270D	Total/NA	
Fluoranthene	1300		43	8.1	ug/Kg	1	¢	8270D	Total/NA	
Fluorene	26	J	43	6.1	ug/Kg	1	¢	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	480		43	11	ug/Kg	1	φ.	8270D	Total/NA	
Phenanthrene	640		43	6.1	ug/Kg	1	¢	8270D	Total/NA	
Pyrene	830		43	8.6		1	¢	8270D	Total/NA	
Arsenic	5.9		1.3	0.43	mg/Kg	1	φ.	6010B	Total/NA	
Barium	100		1.3	0.14	mg/Kg	1	¢	6010B	Total/NA	
Cadmium	1.2	В	0.25	0.046	mg/Kg	1	¢	6010B	Total/NA	
Chromium	21		1.3	0.63	mg/Kg	1	φ.	6010B	Total/NA	4
Lead	290		0.63	0.29	mg/Kg	1	¢	6010B	Total/NA	
Silver	0.23	J	0.63	0.16	mg/Kg	1	¢	6010B	Total/NA	
Mercury	0.20		0.022	0.0073			Å.	7471A	Total/NA	

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
loisture	Percent Moisture	EPA	TAL CHI
050B	Preparation, Metals	SW846	TAL CHI
541	Automated Soxhlet Extraction	SW846	TAL CHI
'471A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514 TestAmerica Job ID: 500-152904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-152904-1	SS-2	Solid	10/09/18 14:21	10/10/18 09:20

Client Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514

TestAmerica Job ID: 500-152904-1

Lab Sample ID: 500-152904-1 Matrix: Solid

Date Collected: 10/09/18 14:21 Date Received: 10/10/18 09:20

Client Sample ID: SS-2

Watrix. C	onu
Percent Solids:	74.0

5

6 7 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<11		88	11	ug/Kg	₩ \[\]	10/18/18 07:47	10/19/18 16:49	1
2-Methylnaphthalene	<8.0		88	8.0	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Acenaphthene	14	J	43	7.8	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Acenaphthylene	33	J	43	5.7	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Anthracene	92		43	7.3	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Benzo[a]anthracene	500		43	5.9	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Benzo[a]pyrene	600		43	8.4	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Benzo[b]fluoranthene	880		43	9.4	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Benzo[g,h,i]perylene	360		43	14	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Benzo[k]fluoranthene	370		43	13	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Chrysene	660		43	12	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Dibenz(a,h)anthracene	140		43	8.4	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Fluoranthene	1300		43	8.1	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Fluorene	26	J	43	6.1	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Indeno[1,2,3-cd]pyrene	480		43	11	ug/Kg	☆	10/18/18 07:47	10/19/18 16:49	1
Naphthalene	<6.7		43	6.7	ug/Kg	φ.	10/18/18 07:47	10/19/18 16:49	1
Phenanthrene	640		43	6.1	ug/Kg	¢	10/18/18 07:47	10/19/18 16:49	1
Pyrene	830		43	8.6	ug/Kg	₽	10/18/18 07:47	10/19/18 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	120		44 - 121				10/18/18 07:47	10/19/18 16:49	1
Nitrobenzene-d5 (Surr)	88		41 - 120				10/18/18 07:47	10/19/18 16:49	1
Terphenyl-d14 (Surr)	84		35 - 160				10/18/18 07:47	10/19/18 16:49	1
Method: 6010B - Metals (ICP)									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		1.3	0.43	mg/Kg	<u>Å</u>	10/17/18 08:49	10/18/18 00:54	1
Barium	100		1.3		mg/Kg	¢	10/17/18 08:49	10/18/18 00:54	1
Cadmium	1.2	В	0.25		mg/Kg	¢		10/18/18 00:54	1
Chromium	21		1.3	0.63	mg/Kg	¢	10/17/18 08:49	10/18/18 00:54	1
Lead	290		0.63	0.29	mg/Kg	☆	10/17/18 08:49	10/18/18 00:54	1
Selenium	<0.75	F1	1.3	0.75	mg/Kg	¢	10/17/18 08:49	10/18/18 00:54	1
Silver	0.23	J	0.63	0.16	mg/Kg	¢	10/17/18 08:49	10/18/18 00:54	

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.022	0.0073	mg/Kg		10/17/18 16:10	10/18/18 10:52	1

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description					
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.					
Metals		4				
Qualifier	Qualifier Description					
В	Compound was found in the blank and sample.					
F1	MS and/or MSD Recovery is outside acceptance limits.					
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.					
F3	Duplicate RPD exceeds the control limit					
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the					
4	absolute difference is less than the RL. MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not					
	applicable.	1				

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	-
%R	Percent Recovery	
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

QC Association Summary

Prep Type

Total/NA

Matrix

Solid

Client Sample ID

SS-2

GC/MS Semi VOA Prep Batch: 455539

Lab Sample ID

500-152904-1

Method

3541

Prep Batch

500-152904-1	55-2	Total/INA	Solid	3541	
MB 500-455539/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-455539/2-A	Lab Control Sample	Total/NA	Solid	3541	
Analysis Batch: 4557	750				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-455539/1-A	Method Blank	Total/NA	Solid	8270D	455539
LCS 500-455539/2-A	Lab Control Sample	Total/NA	Solid	8270D	455539
Analysis Batch: 4557	770				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152904-1		Total/NA	Solid	8270D	455539
Metals					
Prep Batch: 455348					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152904-1	SS-2	Total/NA	Solid	3050B	
MB 500-455348/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-455348/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-152904-1 MS	SS-2	Total/NA	Solid	3050B	
500-152904-1 MSD	SS-2	Total/NA	Solid	3050B	
500-152904-1 DU	SS-2	Total/NA	Solid	3050B	
 Prep Batch: 455437					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152904-1	SS-2	Total/NA	Solid	7471A	
MB 500-455437/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-455437/13-A	Lab Control Sample	Total/NA	Solid	7471A	
Analysis Batch: 455	522				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152904-1	SS-2	Total/NA	Solid	6010B	455348
MB 500-455348/1-A	Method Blank	Total/NA	Solid	6010B	455348
LCS 500-455348/2-A	Lab Control Sample	Total/NA	Solid	6010B	455348
500-152904-1 MS	SS-2	Total/NA	Solid	6010B	455348
500-152904-1 MSD	SS-2	Total/NA	Solid	6010B	455348
500-152904-1 DU	SS-2	Total/NA	Solid	6010B	455348
Analysis Batch: 4556	506				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
500-152904-1	SS-2	Total/NA	Solid	7471A	455437
MB 500-455437/12-A	Method Blank	Total/NA	Solid	7471A	455437
LCS 500-455437/13-A	Lab Control Sample	Total/NA	Solid	7471A	455437
General Chemist	r) (
General Chemist	i y				

Analysis Batch: 454394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152904-1	SS-2	Total/NA	Solid	Moisture	

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid				-	Prep Type: Total/NA
			Pe	ercent Surrog	ate Recovery (Acceptance Limits)
		FBP	NBZ	TPHL	
Lab Sample ID	Client Sample ID	(44-121)	(41-120)	(35-160)	
500-152904-1	SS-2	120	88	84	
LCS 500-455539/2-A	Lab Control Sample	99	113	110	
MB 500-455539/1-A	Method Blank	106	106	109	

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Client Sample ID: Method Blank

Prep Type: Total/NA

5

11

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-455539/1-A Matrix: Solid

Analysis Batch: 455750								Prep Batch:	455539
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Acenaphthene	<6.0		33	6.0	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Anthracene	<5.6		33	5.6	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Chrysene	<9.1		33	9.1	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Fluorene	<4.7		33	4.7	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/18/18 07:47	10/19/18 11:13	1
Pyrene	<6.6		33	6.6	ug/Kg		10/18/18 07:47	10/19/18 11:13	1

	MB	МВ			
Surrogate	%Recovery	Qualifier	Limits		
2-Fluorobiphenyl	106		44 - 121		
Nitrobenzene-d5 (Surr)	106		41 - 120		
Terphenyl-d14 (Surr)	109		35 - 160		

Lab Sample ID: LCS 500-455539/2-A Matrix: Solid Analysis Batch: 455750

Prep Batch: 455539 Spike LCS LCS %Rec. Analyte Added **Result Qualifier** Unit D %Rec Limits 1-Methylnaphthalene 1330 1360 ug/Kg 102 61 - 110 2-Methylnaphthalene 1330 1300 ug/Kg 98 62 - 110 Acenaphthene 1330 1380 ug/Kg 104 62 - 119 Acenaphthylene 1330 1390 104 ug/Kg 60 - 110 1330 1380 104 Anthracene ug/Kg 63 - 110 Benzo[a]anthracene 1330 1440 108 67 - 122 ug/Kg Benzo[a]pyrene 1330 1430 107 61 - 120 ug/Kg Benzo[b]fluoranthene 1330 1330 100 ug/Kg 64 - 127 Benzo[g,h,i]perylene 1330 1530 ug/Kg 115 65 - 132 Benzo[k]fluoranthene 1330 1580 119 65 - 120 ug/Kg Chrysene 1330 1450 ug/Kg 109 63 - 120 64 - 119 1330 1410 106 Dibenz(a,h)anthracene ug/Kg Fluoranthene 1330 1430 ug/Kg 107 62 - 120 Fluorene 1330 1320 99 62 - 120 ug/Kg 1330 1420 106 Indeno[1,2,3-cd]pyrene ug/Kg 57 - 127 Naphthalene 1330 1370 ug/Kg 102 63 - 110 Phenanthrene 1330 100 1330 ug/Kg 62 - 120 Pyrene 1330 61 - 128 1460 ug/Kg 110

10/18/18 07:47 10/19/18 11:13 **Client Sample ID: Lab Control Sample**

10/18/18 07:47 10/19/18 11:13

10/18/18 07:47 10/19/18 11:13

Prepared

Prep Type: Total/NA

Analyzed

Dil Fac

1

1

1

Cadmium

Chromium

Selenium

Lead

Silver

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Lab Sample ID: LCS 500-455539/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 455750 **Prep Batch: 455539** LCS LCS Surrogate %Recovery Qualifier Limits 2-Fluorobiphenyl 99 44 _ 121 Nitrobenzene-d5 (Surr) 113 41 - 120 Terphenyl-d14 (Surr) 35 - 160 110 Method: 6010B - Metals (ICP) Lab Sample ID: MB 500-455348/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 455522 Prep Batch: 455348 MB MB Dil Fac Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Arsenic < 0.34 1.0 0.34 mg/Kg 10/17/18 08:49 10/18/18 00:02 1 Barium 10/18/18 00:02 <0.11 1.0 0.11 mg/Kg 10/17/18 08:49 1 Cadmium 0.0607 J 0.20 0.036 mg/Kg 10/17/18 08:49 10/18/18 00:02 1 Chromium < 0.50 0.50 mg/Kg 10 10/17/18 08:49 10/18/18 00:02 1 Lead <0.23 0.50 0.23 mg/Kg 10/17/18 08:49 10/18/18 00:02 1 Selenium <0.59 0.59 mg/Kg 10/17/18 08:49 10/18/18 00:02 10 1 10/17/18 08:49 10/18/18 00:02 Silver < 0.13 0.50 0.13 mg/Kg 1 Lab Sample ID: LCS 500-455348/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA **Prep Batch: 455348** Analysis Batch: 455522 Spike LCS LCS %Rec. Added Analyte **Result Qualifier** Unit D %Rec Limits Arsenic 10.0 9.45 mg/Kg 94 80 - 120 Barium 200 192 mg/Kg 96 80 - 120 Cadmium 5.00 4.61 mg/Kg 92 80 - 120 Chromium 20.0 18.7 94 80 - 120 mg/Kg 90 Lead 10.0 9.02 mg/Kg 80 - 120 mg/Kg Selenium 10.0 8.18 82 80 - 120 90 Silver 5.00 4.52 80 - 120 mg/Kg Lab Sample ID: 500-152904-1 MS Client Sample ID: SS-2 Matrix: Solid Prep Type: Total/NA Analysis Batch: 455522 **Prep Batch: 455348** Sample Sample Spike MS MS %Rec. Result Qualifier Added **Result Qualifier** %Rec Limits Analyte Unit D Ŧ Arsenic 5.9 12.8 16.3 mg/Kg 81 75 - 125 ₽ Barium 100 255 332 mg/Kg 90 75 - 125

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83

91

237

75

83

75 - 125

75 - 125

75 - 125

75 - 125 75 - 125

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

6.38

25.5

12.8

12.8

6.38

6.44

44.0

9.60

5.55

317 4

1.2 В

21

290

<0.75 F1

0.23 J

Client Sample ID: SS-2

Client Sample ID: SS-2

Prep Type: Total/NA

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-152904-1 MSD Matrix: Solid

Matrix: Solid Analysis Batch: 455522									Prep Type: Total/NA Prep Batch: 455348		
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	5.9		13.1	16.8		mg/Kg	<u> </u>	83	75 - 125	3	20
Barium	100		263	340		mg/Kg	¢	91	75 - 125	2	20
Cadmium	1.2	В	6.56	6.57		mg/Kg	₽	82	75 - 125	2	20
Chromium	21		26.3	43.8		mg/Kg	¢	88	75 - 125	1	20
Lead	290		13.1	284	4	mg/Kg	₽	-27	75 - 125	11	20
Selenium	<0.75	F1	13.1	9.34	F1	mg/Kg	¢	71	75 - 125	3	20
Silver	0.23	J	6.56	5.52		mg/Kg	¢	81	75 - 125	0	20

Lab Sample ID: 500-152904-1 DU Matrix: Solid

..... 455500

Analysis Batch: 455522							Prep Batch: 455348				
	Sample	Sample	DU	DU				RPD			
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit			
Arsenic	5.9	;;	5.74		mg/Kg	<u> </u>	2	20			
Barium	100		123		mg/Kg	¢	19	20			
Cadmium	1.2	В	1.18		mg/Kg	¢	3	20			
Chromium	21		19.7		mg/Kg	¢	5	20			
Lead	290		499	F3	mg/Kg	¢	54	20			
Selenium	<0.75	F1	<0.78		mg/Kg	¢	NC	20			
Silver	0.23	J	0.294	J F5	mg/Kg	¢	25	20			

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-4554 Matrix: Solid Analysis Batch: 455606	37/12-А мв	МВ					Client Sam	ple ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	RL	MDI	. Unit	D	Prepared	Analyzed	Dil Fac
Mercury	< 0.0056		0.017	0.005	mg/Kg		10/17/18 16:10	0 10/18/18 10:46	1
Lab Sample ID: LCS 500-455 Matrix: Solid Analysis Batch: 455606	437/13-A		Spike	LCS LC	S	Client	Sample ID:	Lab Control S Prep Type: To Prep Batch: %Rec.	otal/NA
Analyte			Added	Result Qu 0.155	-	Unit mg/Kg	- <mark>D %Rec</mark> -	Limits 80 - 120	

Lab Sample ID: 500-152904-1

Matrix: Solid

2 3 4 5 6 7 8 9 10 11 12 13 14

Client Sample ID: SS-2 Date Collected: 10/09/18 14:21 Date Received: 10/10/18 09:20

Prep Type Type Method Run Factor Number or Analyzed Analyst Lab

Client Sample ID: SS-2 Date Collected: 10/09/18 14:21 Date Received: 10/10/18 09:20

Lab Sample ID: 500-152904-1 Matrix: Solid Percent Solids: 74.0

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3541			455539	10/18/18 07:47	DX	TAL CHI
Total/NA	Analysis	8270D		1	455770	10/19/18 16:49	AJD	TAL CHI
Total/NA	Prep	3050B			455348	10/17/18 08:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	455522	10/18/18 00:54	JEF	TAL CHI
Total/NA	Prep	7471A			455437	10/17/18 16:10	MJG	TAL CHI
Total/NA	Analysis	7471A		1	455606	10/18/18 10:52	MJG	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Page 15 of 18

Accreditation/Certification Summary Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Coatings - 193703514

TestAmerica Job ID: 500-152904-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority Wisconsin	Program State Program	EPA Region	Identification Number 999580010	Expiration Date 08-31-19

THE LEADER IN ENVIRONMENTAL TESTING 2417 Bond Street, University Park, IL 60484 Phone: 708.534.5200 Fax: 708.534.5211	Report To Contact: <u>Aick B</u> Company: <u>Stanter</u> Address: <u>I2075 (</u> Address: Phone: Fax:	in apport	ke Perkeweng	Address: Phone:	(optional)		Lab Job #: 500-152904 Chain of Custody Number:
Client Washington Cernfy Project Name Niphos Coatings Project Location/State Niphos C 308 cakst Sampler Niphos Lab Project # Lab PM Lab PM	Pres	rameter	(6010) (2270)	· · · ·	-		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
$\begin{array}{c c} \square & \square & \square & \square \\ \hline \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square \\ \hline \blacksquare & \square & \square & \square & \square & \square \\ \hline \hline \end{array}$	## Q	3 <u>₹</u>	PAH (-	Comments
	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··			= 4 4 -			500-152904 COC
Turnaround Time Required (Business Days) 1 Day 1 Day 2 Days Topy Relinquished By Company Relinquished By Company Relinquished By Company Date Company Date Company Date Company Date Company A. IO -9-1	Other	ple Disposal Return to 2 (0 0	Client Dispo	Company Company Company	ive for Months 		if samples are retained longer than 1 month) Lab Courier Lab Courier Shipped Ty Priority
Relinquished By Company Date Matrix Key Client Comments WW – Wastewater SE – Sediment S – Soil L – Leachate SL – Sludge WI – Wipe MS – Miscellaneous DW – Orinking Water OL – Oil O – Other A – Air DW	Time		sceived By	Company	Date	Time	Hand Delivered



Login Sample Receipt Checklist

Client: Stantec Consulting Corporation/Bonestroo

Login Number: 152904 List Number: 1 Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 500-152904-1

List Source: TestAmerica Chicago



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

TestAmerica Job ID: 500-156346-1

Client Project/Site: Niphos Confirmation Sampling 193705875

For:

Stantec Consulting Corporation/Bonestroo 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092

Attn: Whitney Cull

Authorized for release by: 12/28/2018 2:52:19 PM Jim Knapp, Project Manager II (630)758-0262 jim.knapp@testamericainc.com

Designee for

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The

www.testamericainc.com

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Expert

Sandie Fredrick, Project Manager II (920)261-1660 sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	9
QC Association	10
Surrogate Summary	12
QC Sample Results	13
Chronicle	16
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

Job ID: 500-156346-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-156346-1

Comments

No additional comments.

Receipt

The samples were received on 12/15/2018 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: 2W-PORCH (500-156346-2).

I was able to transfer sample into new jar with minimal loss, Client had bubble wrap on top of samples but not at bottom of cooler

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Client Sample ID: 1W-PORCH

Lab Sample ID: 500-156346-2

Lab Sample ID: 500-156346-3

Lab Sample ID: 500-156346-4

Lab Sample ID: 500-156346-1

Analyte Res	sult Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type	Λ
Arsenic	9.3	1.1	0.37	mg/Kg	1	7 6010B	Total/NA	4
Barium	140 V	1.1	0.12	mg/Kg	1	🌣 6010B	Total/NA	5
Cadmium C).16 JB	0.21	0.039	mg/Kg	1	🌣 6010B	Total/NA	5
Chromium	30 V	1.1	0.53	mg/Kg	1	☆ 6010B	Total/NA	
Lead	14 F1	0.54	0.25	mg/Kg	1	🌣 6010B	Total/NA	0
Silver	6.1 F1	0.54	0.14	mg/Kg	1	🌣 6010B	Total/NA	
Mercury 0.	057	0.021	0.0069	mg/Kg	1	🌣 7471A	Total/NA	

Client Sample ID: 2W-PORCH

No Detections.

Client Sample ID: 1S-CENTRAL

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Arsenic	7.6		1.1	0.39	mg/Kg	1	₽	6010B	Total/NA	
Barium	100		1.1	0.13	mg/Kg	1	₽	6010B	Total/NA	
Cadmium	0.20	JB	0.23	0.041	mg/Kg	1	₽	6010B	Total/NA	
Chromium	27		1.1	0.56	mg/Kg	1	¢	6010B	Total/NA	
Lead	14		0.57	0.26	mg/Kg	1	₽	6010B	Total/NA	
Silver	4.6		0.57	0.15	mg/Kg	1	₽	6010B	Total/NA	
Mercury	0.061		0.020	0.0066	mg/Kg	1	φ.	7471A	Total/NA	

Client Sample ID: 2S-CENTRAL

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	39	J	40	8.7	ug/Kg	1	\\\	8270D	Total/NA
Benzo[g,h,i]perylene	38	J	40	13	ug/Kg	1	₽	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	32	J	40	10	ug/Kg	1	₽	8270D	Total/NA

Method Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Method	Method Description	Protocol	Laboratory
3270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
Noisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
'471A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

TestAmerica Job ID: 500-156346-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-156346-1	1W-PORCH	Solid	12/14/18 13:05	12/15/18 09:40
500-156346-2	2W-PORCH	Solid	12/14/18 13:06	12/15/18 09:40
500-156346-3	1S-CENTRAL	Solid	12/14/18 13:10	12/15/18 09:40
500-156346-4	2S-CENTRAL	Solid	12/14/18 13:11	12/15/18 09:40

Client Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

lient Sample ID: 1W-POF						La	in Samble	ID: 500-156	
ate Collected: 12/14/18 13:05 ate Received: 12/15/18 09:40								Matrix Percent Solid	
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	9.3		1.1	0.37	mg/Kg	<u> </u>	12/19/18 16:49	12/20/18 15:03	
Barium	140	v	1.1		mg/Kg	¢	12/19/18 16:49	12/20/18 15:03	
Cadmium	0.16	JB	0.21	0.039	mg/Kg	¢	12/19/18 16:49	12/20/18 15:03	
Chromium	30	V	1.1	0.53	mg/Kg	¢.	12/19/18 16:49	12/20/18 15:03	
_ead	14	F1	0.54	0.25	mg/Kg	¢	12/19/18 16:49	12/20/18 15:03	
Selenium	<0.63		1.1	0.63	mg/Kg	¢	12/19/18 16:49	12/20/18 15:03	
Silver	6.1	F1	0.54	0.14	mg/Kg	¢	12/19/18 16:49	12/20/18 15:03	
Method: 7471A - Mercury (CV/	4 A)								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil F
Mercury	0.057		0.021	0.0069	mg/Kg	<u> </u>	12/20/18 15:15	12/21/18 11:01	
ient Sample ID: 2W-POF te Collected: 12/14/18 13:06 te Received: 12/15/18 09:40	RCH					La		ID: 500-156 Matrix Percent Solid	c: So
lethod: 8270D - Semivolatile	• •		• •			_			
nalyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil F
-Methylnaphthalene	<11		93	11	ug/Kg	¢	12/19/18 08:15	12/24/18 09:58	
	.0.4		00			*	40/40/40 00 45	40/04/40 00 50	
2-Methylnaphthalene	<8.4		93	8.4	0 0	¢		12/24/18 09:58	
2-Methylnaphthalene Acenaphthene	<8.3		46	8.3	ug/Kg	¢ ¢	12/19/18 08:15	12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene	<8.3 <6.1		46 46	8.3 6.1	ug/Kg ug/Kg	¢ ¢	12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	<8.3 <6.1 <7.7		46 46 46	8.3 6.1 7.7	ug/Kg ug/Kg ug/Kg	\$ \$ \$	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene	<8.3 <6.1 <7.7 <6.2		46 46 46 46	8.3 6.1 7.7 6.2	ug/Kg ug/Kg ug/Kg ug/Kg	* * * *	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene	<8.3 <6.1 <7.7 <6.2 <8.9		46 46 46 46 46	8.3 6.1 7.7 6.2 8.9	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9		46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15		46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14		46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13		46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9		46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5		46 46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5		46 46 46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluorene Indeno[1,2,3-cd]pyrene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12		46 46 46 46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene ndeno[1,2,3-cd]pyrene Vaphthalene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1		46 46 46 46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene ndeno[1,2,3-cd]pyrene Naphthalene Phenanthrene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1 <6.4		46 46 46 46 46 46 46 46 46 46 46 46 46 4	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1 6.4	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Japhthalene Phenanthrene	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1		46 46 46 46 46 46 46 46 46 46 46 46	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1 6.4	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene ndeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Dyrene Surrogate	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1 <6.4 <9.1 %Recovery	Qualifier	46 46 46 46 46 46 46 46 46 46 46 46 46 4	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1 6.4	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	Dil F
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene ndeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Burrogate 2-Fluorobiphenyl	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1 <6.4 <9.1	Qualifier	46 46 46 46 46 46 46 46 46 46 46 46 46 4	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1 6.4	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	Dil F
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene ndeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 (Surr)	<8.3 <6.1 <7.7 <6.2 <8.9 <9.9 <15 <14 <13 <8.9 <8.5 <6.5 <12 <7.1 <6.4 <9.1 %Recovery	Qualifier	46 46 46 46 46 46 46 46 46 46 46 46 46 4	8.3 6.1 7.7 6.2 8.9 9.9 15 14 13 8.9 8.5 6.5 12 7.1 6.4	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		12/19/18 08:15 12/19/18 08:15	12/24/18 09:58 12/24/18 09:58	Dil F

Client Sample ID: 1S-CENTRAL Date Collected: 12/14/18 13:10 Date Received: 12/15/18 09:40

Method: 6010B - Metals (ICP)								
Analyte	Result Qua	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6	1.1	0.39	mg/Kg	\ ↓	12/19/18 16:49	12/20/18 15:35	1
Barium	100	1.1	0.13	mg/Kg	¢	12/19/18 16:49	12/20/18 15:35	1

TestAmerica Chicago

Percent Solids: 82.6

Matrix: Solid

Client Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875 TestAmerica Job ID: 500-156346-1

lient Sample ID: 1S-C						La	b Sample	ID: 500-156	
ate Collected: 12/14/18 13								Matrix	
ate Received: 12/15/18 09	:40							Percent Solid	s: 82.
Aethod: 6010B - Metals (I	CP) (Continued								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
admium	0.20		0.23		mg/Kg	<u> </u>	12/19/18 16:49		
Chromium	27		1.1		mg/Kg	¢	12/19/18 16:49		
ead	14		0.57		mg/Kg	₽	12/19/18 16:49	12/20/18 15:35	
Selenium	<0.67		1.1		mg/Kg	¢	12/19/18 16:49	12/20/18 15:35	
Silver	4.6		0.57		mg/Kg	¢	12/19/18 16:49	12/20/18 15:35	
Method: 7471A - Mercury									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
lercury	0.061		0.020	0.0066	mg/Kg	<u>Å</u>	12/20/18 15:15	12/21/18 11:03	
ient Sample ID: 2S-C	ENTRAL					La	b Sample	ID: 500-156	346-
te Collected: 12/14/18 13								Matrix	
ate Received: 12/14/18 09								Percent Solid	
ate Received. 12/13/10/03	.40							Fercent Solid	5. 02.
lethod: 8270D - Semivola	atile Organic Co	mpounds	(GC/MS)						
nalyte	Result	Qualifier	ŔL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
-Methylnaphthalene	<9.8		81	9.8	ug/Kg		12/19/18 08:15	12/24/18 10:25	
-Methylnaphthalene	<7.4		81	7.4	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
cenaphthene	<7.2		40	7.2	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
cenaphthylene	<5.3		40	5.3	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Anthracene	<6.7		40	6.7	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Benzo[a]anthracene	<5.4		40	5.4	ug/Kg	₽	12/19/18 08:15	12/24/18 10:25	
Benzo[a]pyrene	<7.8		40	7.8	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Benzo[b]fluoranthene	39	J	40	8.7	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Benzo[g,h,i]perylene	38	J	40	13	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Benzo[k]fluoranthene	<12		40	12	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
hrucene	<11		40	11	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
Infysene				70	ug/Kg	¢	12/19/18 08:15	12/24/18 10:25	
	<7.8		40	1.0					
Dibenz(a,h)anthracene	<7.8 <7.5		40 40		ug/Kg	¢.	12/19/18 08:15	12/24/18 10:25	
Dibenz(a,h)anthracene Iuoranthene				7.5		¢ ¢		12/24/18 10:25 12/24/18 10:25	
Dibenz(a,h)anthracene Iluoranthene Iluorene	<7.5	J	40	7.5	ug/Kg ug/Kg			12/24/18 10:25	
Dibenz(a,h)anthracene Iuoranthene Iuorene ndeno[1,2,3-cd]pyrene	<7.5 <5.7	J	40 40	7.5 5.7 10	ug/Kg ug/Kg	¢ ¢	12/19/18 08:15	12/24/18 10:25 12/24/18 10:25	
Dibenz(a,h)anthracene Iluoranthene Iluorene ndeno[1,2,3-cd]pyrene Iaphthalene	<7.5 <5.7 32	J	40 40 40	7.5 5.7 10 6.2	ug/Kg ug/Kg ug/Kg	¢ ¢ ¢	12/19/18 08:15 12/19/18 08:15	12/24/18 10:25 12/24/18 10:25 12/24/18 10:25	
bibenz(a,h)anthracene luoranthene luorene ndeno[1,2,3-cd]pyrene laphthalene thenanthrene	<7.5 <5.7 32 <6.2	J	40 40 40 40	7.5 5.7 10 6.2 5.6	ug/Kg ug/Kg ug/Kg ug/Kg	4 4 4 4 4	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15	12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25	
Dibenz(a,h)anthracene Iluoranthene Iluorene Indeno[1,2,3-cd]pyrene Ilaphthalene Phenanthrene Pyrene Surrogate	<7.5 <5.7 32 <6.2 <5.6		40 40 40 40 40	7.5 5.7 10 6.2 5.6	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	4 4 4 4 4	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 Prepared	12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 Analyzed	Dil Fi
Dibenz(a,h)anthracene Iluoranthene Iluorene Indeno[1,2,3-cd]pyrene Ilaphthalene Phenanthrene Pyrene Surrogate	<7.5 <5.7 32 <6.2 <5.6 <8.0		40 40 40 40 40 40	7.5 5.7 10 6.2 5.6	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	4 4 4 4 4	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 Prepared	12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25	Dil Fa
Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 (Surr)	<7.5 <5.7 32 <6.2 <5.6 <8.0 %Recovery		40 40 40 40 40 40 40 Limits	7.5 5.7 10 6.2 5.6	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	4 4 4 4 4	12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 12/19/18 08:15 Prepared 12/19/18 08:15	12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 12/24/18 10:25 Analyzed	Dil Fa

Definitions/Glossary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Qualifiers

Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
Metals		
Qualifier	Qualifier Description	
V	Serial Dilution exceeds the control limits	
В	Compound was found in the blank and sample.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
F1	MS and/or MSD Recovery is outside acceptance limits.	Q
F3	Duplicate RPD exceeds the control limit	0

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	-
%R	Percent Recovery	
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	13
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	13 14 15
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

QC Association Summary

Prep Type

Total/NA

Total/NA

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Client Sample ID

2W-PORCH

2S-CENTRAL

GC/MS Semi VOA Prep Batch: 465392

Lab Sample ID

500-156346-2

500-156346-4

Method

3541

3541

Matrix

Solid

Solid

Prep Batch

9 10 11 12 13

500-1505-0-4		TOLAI/TNA	Ooliu	5541	
MB 500-465392/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-465392/2-A	Lab Control Sample	Total/NA	Solid	3541	
nalysis Batch: 4650	616				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
MB 500-465392/1-A	Method Blank	Total/NA	Solid	8270D	46539
LCS 500-465392/2-A	Lab Control Sample	Total/NA	Solid	8270D	46539
Analysis Batch: 466	132				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-156346-2	2W-PORCH	Total/NA	Solid	8270D	46539
500-156346-4	2S-CENTRAL	Total/NA	Solid	8270D	46539
Vietals					
Prep Batch: 465602					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
500-156346-1	1W-PORCH	Total/NA	Solid	3050B	
500-156346-3	1S-CENTRAL	Total/NA	Solid	3050B	
MB 500-465602/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-465602/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-156346-1 MS	1W-PORCH	Total/NA	Solid	3050B	
500-156346-1 MSD	1W-PORCH	Total/NA	Solid	3050B	
500-156346-1 DU	1W-PORCH	Total/NA	Solid	3050B	
Prep Batch: 465734					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-156346-1	1W-PORCH	Total/NA	Solid	7471A	
500-156346-3	1S-CENTRAL	Total/NA	Solid	7471A	
MB 500-465734/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-465734/13-A	Lab Control Sample	Total/NA	Solid	7471A	
Analysis Batch: 4658	839				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
500-156346-1	1W-PORCH	Total/NA	Solid	6010B	46560
500-156346-3	1S-CENTRAL	Total/NA	Solid	6010B	46560
MB 500-465602/1-A	Method Blank	Total/NA	Solid	6010B	46560
LCS 500-465602/2-A	Lab Control Sample	Total/NA	Solid	6010B	46560
500-156346-1 MS	1W-PORCH	Total/NA	Solid	6010B	46560
500-156346-1 MSD	1W-PORCH	Total/NA	Solid	6010B	46560
500-156346-1 DU	1W-PORCH	Total/NA	Solid	6010B	46560
Analysis Batch: 465	936				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156346-1	1W-PORCH	Total/NA	Solid	7471A	465734
500-156346-3	1S-CENTRAL	Total/NA	Solid	7471A	465734
MB 500-465734/12-A	Method Blank	Total/NA	Solid	7471A	465734
LCS 500-465734/13-A	Lab Control Sample	Total/NA	Solid	7471A	465734

TestAmerica Chicago

QC Association Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875 TestAmerica Job ID: 500-156346-1

9

General Chemistry

Analysis Batch: 465064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156346-1	1W-PORCH	Total/NA	Solid	Moisture	
500-156346-2	2W-PORCH	Total/NA	Solid	Moisture	
500-156346-3	1S-CENTRAL	Total/NA	Solid	Moisture	
500-156346-4	2S-CENTRAL	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Percent Surrogate Recovery (Acceptance Limits) TPHL	
TPHL	
7) (42-157)	
78	
123	
124	
122	
	123 124

FBP = 2-Fluorobiphenyl NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TestAmerica Chicago

QC Sample Results

RL

67

67

33

33

33

33

33

33

33

Limits

43 - 145

37 - 147

42 - 157

MDL Unit

6.1 ug/Kg

5.6 ug/Kg

4.5 ug/Kg

6.4 ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

6.6 ug/Kg

4.6

8.1

6.0

4.4

D

Prepared

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Lab Sample ID: MB 500-465392/1-A

Matrix: Solid

1-Methylnaphthalene

2-Methylnaphthalene

Benzo[a]anthracene

Acenaphthene

Anthracene

Acenaphthylene

Benzo[a]pyrene

Phenanthrene

Pyrene

Surrogate

2-Fluorobiphenyl

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

Analyte

Analysis Batch: 465616

Client Sample ID: Method Blank

12/19/18 08:15 12/19/18 20:14

12/19/18 08:15 12/19/18 20:14

12/19/18 08:15 12/19/18 20:14

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12/19/18 08:15 12/19/18 20:14

12/19/18 08:15 12/19/18 20:14

12/19/18 08:15 12/19/18 20:14

Analyzed

Prep Type: Total/NA

Prep Batch: 465392

Dil Fac

1

1

1

1

1

1

1

1

1

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1

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1

1

-2 3 4 5 6

Prepared	Analyzed	Dil Fac	
12/19/18 08:15	12/19/18 20:14	1	
12/19/18 08:15	12/19/18 20:14	1	
12/19/18 08:15	12/19/18 20:14	1	

Lab Sample ID: LCS 500-465392/2-A Matrix: Solid Analysis Batch: 465616

Spike LCS LCS %Rec. Analyte Added **Result Qualifier** Unit D %Rec Limits 1-Methylnaphthalene 1330 1370 ug/Kg 103 68 - 111 2-Methylnaphthalene 1330 1410 ug/Kg 105 69 - 112 Acenaphthene 1330 1380 ug/Kg 103 65 - 124 Acenaphthylene 1330 1420 106 68 - 120 ug/Kg 104 Anthracene 1330 1380 ug/Kg 70 - 114 Benzo[a]anthracene 1330 1410 106 67 - 122 ug/Kg Benzo[a]pyrene 1330 1490 111 65 - 133 ug/Kg Benzo[b]fluoranthene 1330 1590 120 ug/Kg 69 - 129 Benzo[g,h,i]perylene 1330 1540 115 72 - 131 ug/Kg Benzo[k]fluoranthene 1330 1560 117 68 - 127 ug/Kg Chrysene 1330 1450 ug/Kg 109 63 - 120 1330 1580 119 64 - 131 Dibenz(a,h)anthracene ug/Kg Fluoranthene 1330 1400 ug/Kg 105 62 - 120 Fluorene 1330 1370 102 62 - 120 ug/Kg 1330 1540 115 Indeno[1,2,3-cd]pyrene ug/Kg 68 - 130 Naphthalene 1330 1380 ug/Kg 103 63 - 110 Phenanthrene 1330 104 1380 ug/Kg 62 - 120Pyrene 1330 1550 ug/Kg 116 61 - 128

TestAmerica Chicago

Method: 8270D - Semivolatile Or	ganic Compounds (GC/MS)
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MB MB Result Qualifier

<8.1

<6.1

<6.0

<4.4

<5.6

<4.5

<6.4

<4.6

<6.6

105

110

122

%Recovery

MB MB

Qualifier

Benzo[b]fluoranthene	<7.2	33	7.2 ug/Kg
Benzo[g,h,i]perylene	<11	33	11 ug/Kg
Benzo[k]fluoranthene	<9.8	33	9.8 ug/Kg
Chrysene	<9.1	33	9.1 ug/Kg
Dibenz(a,h)anthracene	<6.4	33	6.4 ug/Kg
Fluoranthene	<6.2	33	6.2 ug/Kg
Fluorene	<4.7	33	4.7 ug/Kg
Indeno[1,2,3-cd]pyrene	<8.6	33	8.6 ug/Kg
Naphthalene	<5.1	33	5.1 ug/Kg

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 465392

QC Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Lab Sample ID: LCS 500-465392/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 465616 **Prep Batch: 465392** LCS LCS %Recovery Qualifier Surrogate Limits 2-Fluorobiphenyl 98 43 - 145 Nitrobenzene-d5 (Surr) 107 37 - 147 Terphenyl-d14 (Surr) 124 42 - 157 Method: 6010B - Metals (ICP) Lab Sample ID: MB 500-465602/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Analysis Batch: 465839 Prep Batch: 465602 MB MB Dil Fac Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Arsenic < 0.34 1.0 0.34 mg/Kg 12/19/18 16:49 12/20/18 14:51 1 Barium 12/19/18 16:49 12/20/18 14:51 <0.11 1.0 0.11 mg/Kg 1 Cadmium 0.0689 J 0.20 0.036 mg/Kg 12/19/18 16:49 12/20/18 14:51 1 <0.50 0.50 mg/Kg Chromium 10 12/19/18 16:49 12/20/18 14:51 1 Lead <0.23 0.50 0.23 mg/Kg 12/19/18 16:49 12/20/18 14:51 1 Selenium <0.59 1.0 0.59 mg/Kg 12/19/18 16:49 12/20/18 14:51 1 Silver 12/19/18 16:49 12/20/18 14:51 < 0.13 0.50 0.13 mg/Kg 1 Lab Sample ID: LCS 500-465602/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA **Prep Batch: 465602** Analysis Batch: 465839 Spike LCS LCS %Rec. Added Analyte **Result Qualifier** Unit D %Rec Limits Arsenic 10.0 9.62 mg/Kg 96 80 - 120 Barium 200 205 mg/Kg 102 80 - 120 Cadmium 5.00 4.95 mg/Kg 99 80 - 120 Chromium 20.0 19.6 98 80 - 120 mg/Kg

Lead Selenium Silver

Lab Sample ID: 500-156346-1 MS Matrix: Solid

Analysis Batch: 465839	Sample	Sample	Spike	MS	MS				Prep Batch: 465602 %Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	9.3		11.9	19.1		mg/Kg	☆	83	75 - 125
Barium	140	V	239	360		mg/Kg	¢	94	75 - 125
Cadmium	0.16	JB	5.97	5.16		mg/Kg	¢	84	75 - 125
Chromium	30	V	23.9	53.6		mg/Kg	¢	99	75 - 125
Lead	14	F1	11.9	30.0	F1	mg/Kg	☆	132	75 - 125
Selenium	<0.63		11.9	9.30		mg/Kg	¢	78	75 - 125
Silver	6.1	F1	5.97	10.2	F1	mg/Kg	¢	69	75 - 125

10.0

10.0

5.00

9.68

9.26

4.46

mg/Kg

mg/Kg

mg/Kg

97

93

89

80 - 120

80 - 120

80 - 120

Client Sample ID: 1W-PORCH

Prep Type: Total/NA

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Client Sample ID: 1W-PORCH

Prep Type: Total/NA

11

12 13

Client Sample ID: 1W-PORCH Prep Type: Total/NA Prep Batch: 465602 %Rec. RPD

Method: 6010B - Metals (ICP) (Continued)

Lab Sample 1D. 500-150340							, c	ment o	ampie iD.	IVV-PC	лсп
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 465839									Prep Ba	atch: 46	35602
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	9.3		12.0	18.8		mg/Kg	₽	79	75 - 125	2	20
Barium	140	V	240	364		mg/Kg	₽	95	75 - 125	1	20
Cadmium	0.16	JB	6.00	5.19		mg/Kg	¢	84	75 - 125	1	20
Chromium	30	V	24.0	55.0		mg/Kg	¢	104	75 - 125	3	20
Lead	14	F1	12.0	26.5		mg/Kg	¢	102	75 - 125	13	20
Selenium	<0.63		12.0	9.40		mg/Kg	¢	78	75 - 125	1	20
Silver	6.1	F1	6.00	10.2	F1	mg/Kg	¢.	68	75 - 125	0	20

Lab Sample ID: 500-156346-1 DU Matrix: Solid

Analysis Batch: 465839

Analysis Batch: 465839							Prep Batch: 40	65602
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	9.3		9.14		mg/Kg	<u> </u>		20
Barium	140	V	131		mg/Kg	¢	3	20
Cadmium	0.16	JB	0.184	J	mg/Kg	¢	14	20
Chromium	30	V	28.5		mg/Kg	¢	5	20
Lead	14	F1	20.8	F3	mg/Kg	¢	38	20
Selenium	<0.63		<0.67		mg/Kg	¢	NC	20
Silver	6.1	F1	5.58		mg/Kg	¢	8	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-46 Matrix: Solid Analysis Batch: 465936		МВ					Client Sam	ple ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	RL	. м	DL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	< 0.0056		0.017	0.00	056 mg/Kg	J	12/20/18 15:15	12/21/18 10:58	1
Lab Sample ID: LCS 500-40 Matrix: Solid Analysis Batch: 465936	65734/13-A		Quilta			Clien	t Sample ID:	Lab Control S Prep Type: To Prep Batch:	otal/NA
Analyte			Spike Added	LCS Result		Unit	D %Rec	%Rec. Limits	
Mercury			0.167	0.155	auaiillei	mg/Kg	$-\frac{D}{-}\frac{93}{93}$	80 - 120	

Lab Chronicle

| W18 13:05
(/18 09:40) Matrix: Solid
Matrix: Solid Matrix: Solid Batch
e Batch
Method Run Dilution
Factor Batch
Mumber Prepared
or Analyzed
12/17/18 13:19 Analyst
Luw Lab
TAL CHI 1W-PORCH
W18 13:05
(/18 09:40 Run Dilution
Factor Batch
Percent Solids: 78.7 Prepared
Number
or Analyzed
Matrix: Solid
Percent Solids: 78.7 Analyst
Lab Lab 1W-PORCH
W18 13:05
(/18 09:40 Run Dilution
Factor Batch
Percent Solids: 78.7 Analyst
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or Analyzed
Matrix: Solid
Percent Solids: 78.7 Lab 2W-PORCH
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Missis Run Dilution
Pactor Batch
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ate Collected: 12/14/18 13:05
ate Received: 12/15/18 09:40 Batch
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or Analyzed
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Matrix: Soli
Percent Solids: 78. Prep Type
Total/NA Batch
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Method Run
Prep Type Dilution
Factor
1 Batch
465036 Prepared
12/19/18 16:49
BDE Analyst
TAL CHI
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TAL CHI Itent Sample ID: 2W-PORCH
ate Collected: 12/14/18 13:06
ate Received: 12/15/18 09:40 Prepared
Total/NA Prepared
Prep Type Prepared
Total/NA Itent Sample ID: 2W-PORCH
ate Collected: 12/14/18 13:06
ate Received: 12/15/18 09:40 Dilution
Total/NA Batch
Analysis Method
Moisture Run
Factor
1 Batch
Number Prepared
Or Analyzed
Analyst Analyst
Lab
TAL CHI

 | Batch Batch Batch Matrix: Solid Prep Type Type Method Run Pactor Number or Analyzed Analyst Lab Ilient Sample ID: 1W-PORCH Moisture Iliution Batch Prepared Analyst Lab Ilient Sample ID: 1W-PORCH Lab Lab Sample ID: 500-156346-1 Attrix: Solid Matrix: Solid Prepared Matrix: Solid Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Collarina Prep 3050B TAL CHI Analyst Lab Total/NA Prep 7471A 465502 12/20/18 15:15 MJG TAL CHI Ilient Sample ID: 2W-PORCH Lab Sample ID: 500-156346-2 Matrix: Solid Matrix: Solid ate Received: 12/14/18 13:06 Run
 | Matrix: Solid Matrix: Solid Matrix: Solid Prep Type Matrix: Solid Prep Type Method Run Batch Prep Type Matrix: Solid Identifying the state of
 | Batch Batch Batch Matrix: Solid Prep Type Type Method Run Pactor Number or Analyzed Analyst Lab Ilient Sample ID: 1W-PORCH Moisture Iliution Batch Prepared Analyst Lab Ilient Sample ID: 1W-PORCH Lab Lab Sample ID: 500-156346-1 Attrix: Solid Matrix: Solid Prepared Matrix: Solid Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Collarina Prep 3050B TAL CHI Analyst Lab Total/NA Prep 7471A 465502 12/20/18 15:15 MJG TAL CHI Ilient Sample ID: 2W-PORCH Lab Sample ID: 500-156346-2 Matrix: Solid Matrix: Solid ate Received: 12/14/18 13:06 Run
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Ilient Sample ID: 1W-PORCH Lab Lab Sample ID: 500-156346-1 Attrix: Solid Matrix: Solid Prepared Matrix: Solid Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Prep Type Type Method Run Prepared Analyst Lab Collacted: 12/14/18 13:05 Method Run Prepared Analyst Lab Collarina Prep 3050B TAL CHI Analyst Lab Total/NA Prep 7471A 465502 12/20/18 15:15 MJG TAL CHI Ilient Sample ID: 2W-PORCH Lab Sample ID: 500-156346-2 Matrix: Solid Matrix: Solid ate Received: 12/14/18 13:06 Run | Matrix: Solid Lab Matrix: Solid Lab Lab Matrix: Solid Lab Mathod Matrix: Solid Prep Type Type Mathod Matrix: Solid Colspan="2">Mathod Run Batch Batch Mathod Prep Type Type Mathod | Matrix: Solid Lab Matrix: Solid Lab Lab Matrix: Solid Lab Mathod Matrix: Solid Prep Type Type Mathod Matrix: Solid Colspan="2">Mathod Run Batch Batch Mathod Prep Type Type Mathod | Matrix: Solid Lab Matrix: Solid Lab Lab Matrix: Solid Lab Mathod Matrix: Solid Prep Type Type Mathod Matrix: Solid Colspan="2">Mathod Run Batch Batch Mathod Prep Type Type Mathod | Batch Batch Batch Method Run Factor Number Or Analyzed Analyst Lab Ilient Sample ID: 1W-PORCH Moisture 1 465064 12/17/18 13:19 Lwn TAL CHI Ilient Sample ID: 1W-PORCH Method Run Factor Number or Analyzed Analyst Lab Ilient Sample ID: 12/15/18 09:40 Batch Prep Type Type Method Matrix: Solid Prep Type Type Batch Batch Prep Type TAL CHI Total/NA Analysis 6010B 0 Dilution Batch Prep Type Total/NA Analysis 6010B 1 465022 12/19/18 16:49 BE TAL CHI Total/NA Analysis 6010B 1 465023 12/20/18 16:49 BE TAL CHI Total/NA Analysis 7471A 1 465734 12/20/18 16:49 BE TAL CHI Ilient Sample ID: 2W-PORCH Lab Lab Sample ID: 500-156346-2 Matrix: Solid Ilient Sample ID: 2W-PORCH Lab Sample ID: 500-156346-2 Matrix: S |

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| Method
hysis Run Factor
1 Number
465064 or Analyzed
12/17/18 13:19 Analyst
LWN Lab
TAL CHI 1W-PORCH
M/18 13:05
//18 09:40 Run Factor
1 Number
465064 or Analyzed
12/17/18 13:19 Analyst
LWN Lab
TAL CHI 1W-PORCH
M/18 13:05
//18 09:40 Batch
Percent Solids: 78.7 Lab
Matrix: Solid
Percent Solids: 78.7 ch Batch
Percent Solids: 78.7 Dilution
465602 Batch
12/19/18 16:49 Analyst
BDE Lab
TAL CHI o 7471A Prepared
465603 Number
12/20/18 15:03 JEF TAL CHI 2W-PORCH
Mysis 1 465734 12/20/18 15:15 MJG TAL CHI 2W-PORCH
Mysis Run Dilution
Factor Batch
Method Run Dilution
Factor Batch
Number Prepared
or Analyzed Analyst
MJS 13:06 Lab
TAL CHI 2W-PORCH
Mysis Run Dilution
Factor Batch
Method Run Dilution
Factor Batch
Number Analyst
Dilution Lab
TAL CHI 2W-PORCH
M/18 13:06 Run Dilution
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Total/NABatchMethod
MoistureRunFactor
1Number
465064Analyst
12/17/18Lab
TAL CHIClient Sample ID: 2W-PORCH
Date Collected: 12/14/18BatchRunFactor
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Matrix: Solid
Percent Solids: 78.7 Batch Batch Prep Type Method Run Factor Number or Analyzed
465602 Analyst Lab Total/NA Prep Type Type Method Run Factor Number or Analyzed
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Matrix: Soli Date Collected: 12/14/18 13:06 Date Received: 12/15/18 09:40 Factor Number or Analyzed <th< td=""><td>Client Sample ID: 1W-PORCH Lab Sample ID: 500-156346-1 Date Collected: 12/14/18 13:05 Matrix: Solid Prep Type Type Method Run Factor Number Analyst Lab Total/NA Prep 3050B 1 465632 12/19/18 16:49 BDE TAL CHI Total/NA Prep 7471A 1 465632 12/20/18 15:15 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 15:15 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Analysis 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Client Sample ID: 2W-PORCH Lab Lab Sample ID: 500-156346-2 Matrix: Solid Date Received: 12/15/18 09:40 Moisture Run Factor Number or Analyzed Analyst Lab Total/NA Analysis Moisture</td><td>Client Sample ID: 1W-PORCH Lab Sample ID: 500-156346-1 Date Collected: 12/14/18 13:05 Matrix: Solid Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3050B 1 465632 12/19/18 16:49 BDE TAL CHI Total/NA Prep 7471A 465734 12/20/18 15:15 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Analysis 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Analysis 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Analysis 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Client Sample ID: 2W-PORCH Lab Sample ID: 500-156346-2 Matrix: Solid Matrix: Solid Date Received: 12/15/18 09:40 Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis<!--</td--><td>Client Sample ID: 1W-PORCH Lab Sample ID: 500-156346-1 Date Collected: 12/14/18 13:05 Matrix: Solid Prep Type Type Method Run Factor Number Analyst Lab Total/NA Prep 3050B 1 465632 12/19/18 16:49 BDE TAL CHI Total/NA Prep 7471A 1 465632 12/20/18 15:15 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 15:15 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Prep 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Total/NA Analysis 7471A 1 465936 12/21/18 11:01 MJG TAL CHI Client Sample ID: 2W-PORCH Lab Lab Sample ID: 500-156346-2 Matrix: Solid Date Received: 12/15/18 09:40 Moisture Run Factor Number or Analyzed Analyst Lab Total/NA Analysis Moisture</td><td>Client Sample ID: 1W-PORCH Lab Sample ID: 500-156346-1 Date Collected: 12/14/18 13:05 Matrix: Solid Prep Type Type Method Run Factor Number Analyst Lab Total/NA Prep 3050B 1 465632 12/19/18 16:49 BDE TAL CHI Total/NA
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Date Collecte	d: 12/14/18 1 d: 12/15/18 09	3:11 9:40	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Lab Sa	Imple ID:	
Date Collected Date Received	d: 12/14/18 13 d: 12/15/18 09 Batch	3:11 9:40 Batch	Run			•	Analyst	•	
Date Collected Date Received Prep Type	d: 12/14/18 13 d: 12/15/18 09 Batch Type Analysis ple ID: 2S-0 d: 12/14/18 13	3:11 9:40 Batch Method Moisture CENTRAL 3:11	Run	Factor	Number	or Analyzed	Analyst LWN	Lab TAL CHI	
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Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received	d: 12/14/18 13 d: 12/15/18 09 Batch Type Analysis ple ID: 2S-0 d: 12/14/18 13 d: 12/15/18 09 Batch	3:11 9:40 Batch Method Moisture CENTRAL 3:11 9:40 Batch		- Factor 1 -	Number 465064 Batch	or Analyzed 12/17/18 13:19 Prepared or Analyzed	Analyst LWN Lab Sa Analyst	Lab TAL CHI Imple ID: Pere	Matrix: Solid 500-156346-4 Matrix: Solid

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TestAmerica Chicago

Accreditation/Certification Summary

Client: Stantec Consulting Corporation/Bonestroo Project/Site: Niphos Confirmation Sampling 193705875

Laboratory: TestAmerica Chicago The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Too	tAmerica Job ID: 500-156346-1	1
165	initia 300 12, 300-130340-1	2
		3
ber	Expiration Date 08-31-19	4
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	1	(a-Hana)		1	(1		8
TestAmerica	Report To	(optional)		Bill To Contact:	(optional)	Chain of	Custody Record	
THE LEADER IN ENVIRONMENTAL TESTING	Company: 57	TNRC		Company:		Lab Job #:_	500/15/0346	3
2417 Bond Street, University Park, IL 60484 Phone: 708.534.5200 Fax: 708.534.5211	Address: #-200	S CONFOMTE MERUON, WI S		Address:		Chain of Cu	stody Number:	10
	Phone: (262)	219-47-40		Phone:		Page	1_ of	
	Fax: E-Mail: [\\)H (17\)G	H. CULL @STANTE	K. COM	Fax: PO#/Reference#		Temperature	e °C of Cooler: Dr2 F21	
Client Client Project #	L	Preservative	NONE	NONE			Preservative Key 1. HCL, Cool to 4°	12
Project Name NIPHOS CONFIRMATION	SAMPLING	Parameter 2002	60105	14			2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4°	
Project Location/State Lab Project #		28		1441.			5. NaOH/Zn, Cool to 4° 6. NaHSO4	13
Sampler W. CULL Lab PM		<u>ь</u>	Menus			19-1	7. Cool to 4° 8. None 9. Other	14
	Sampling	rix		MERCURY		τ ^ο		
다. 유 역 · · · · · · · · · · · · · · · · · · ·	Date Time	# of Containers Matrix PA H	rce	Me			Comments	15
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Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days _X 10 Days 1	15 Days Other	Sample Disposal	Dia-	osal by Lab				
Requested Due Date		Return to Client			ive for Months (A fee l	may be assessed if samples are	retained longer than 1 month)	
Relinquished By Company D W.C. STINITER	Until 6		inh	Saluar T	1445 12/15/	8 09140	Lab Courier	
		me Received By		Company -	Date	Time	shipped FX Prior ty	
		me Received By		Company	Date	Time	Hand Delivered	
Matrix Key Cilent Comme WW – Wastewater SE – Sediment W – Water SO – Soil	ents				Lab Comments:			
W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wipe								
MS - Miscellaneous DW - Drinking Water OL - Oil O - Other								
A – Air							TAL-4124-500 (1209)	

Login Sample Receipt Checklist

Client: Stantec Consulting Corporation/Bonestroo

Login Number: 156346 List Number: 1 Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Received broken. Transferred to new containers with minimal or no sample loss.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 500-156346-1

List Source: TestAmerica Chicago

REMEDIAL DOCUMENTATION REPORT FORMER NIPHOS COATINGS, INC. PROPERTY 308 AND 310 OAK STREET SLINGER, WISCONSIN

Appendix D PHOTO DOCUMENTATION LOGS June 10, 2019

Appendix D PHOTO DOCUMENTATION LOGS





Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 1		1000 A	
Photo Location: 310 Oak Street			
Direction: Looking east			Contraction of the second
Survey Date: 5/23/2018		H L CO	
Comments: The area marked off pink paint was remove a part of May 2018 remediation			
Photograph ID: 2	and the set of the set		and the second s
Photo Location: 310 Oak Street			
Direction: Looking southwest	and the second		
Survey Date: 5/23/2018		1	
Comments: May 2018 remediation performed up to the e of the porch	n was edge		



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 3 Photo Location: 310 Oak Street Direction: Looking northeast Survey Date:			
5/23/2018 Comments: Excavating to a minimu depth of 18"	im		
Photograph ID: 4			
Photo Location: Excavation			
Direction: Looking south	Q. C.		
Survey Date: 5/23/2018		1	and the second
Comments: Contractor encountered gas line during excavat appropriate entities were contacted, and measur were taken to clear, ren meter, cap pipe leading excavation and install shut-off in Oak Street li	ion; re es move g to		



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 5			
Photo Location: Excavation			
Direction: Looking down into excavation			
Survey Date: 5/23/2018			
Comments: We Energies capped gas line where it enter the excavation			
Photograph ID: 6			
Photo Location: Oak Street			
Direction: Looking southeast to the Property	wards		
Survey Date: 5/23/2018	2		
Comments: We Energies broke concrete within Oak S to install a shut-off at road			



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 7 Photo Location: Excavation			
Direction: Looking east		E Martine	
Survey Date: 5/23/2018			
Comments: Gas meter now remove and gas line capped by Energies; clear to resur work	We		
Photograph ID: 8	A A A A A A A A A A A A A A A A A A A	A CONTRACTOR OF	
Photo Location: Excavation	and the	tation C	
Direction: Looking south			
Survey Date: 5/23/2018	Chine State		
Comments: Excavation prior to placement of liner and clean, granular fill			



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 9 Photo Location: Excavation Direction: Looking east			
Survey Date: 5/23/2018			
Comments: Liner placement			
Photograph ID: 10			
Photo Location: Excavation		HALL AND AND	
Direction: Looking south		TA AL	
Survey Date: 5/23/2018			
Comments: Clean, granular fill placement			

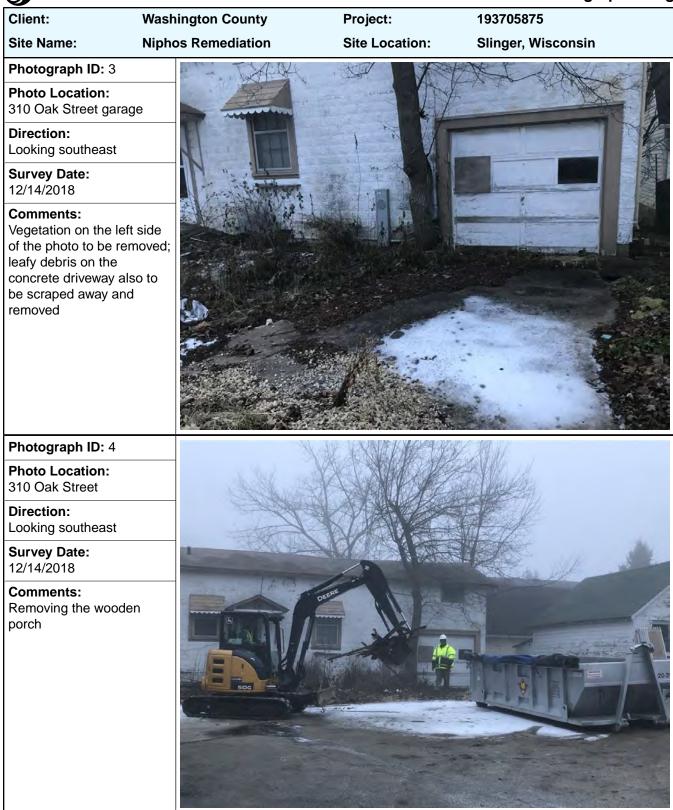


Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 11 Photo Location: 310 Oak Street			
Direction: Looking east			
Survey Date: 6/20/2018			
Comments: 310 Oak Street five w post-May 2018 remed activities			
Photograph ID: 12			
Photo Location: 310 Oak Street			
Direction: Looking southeast			
Survey Date: 6/20/2018			
Comments: 310 Oak Street five w post-May 2018 remed activities			



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 1 Photo Location: 310 Oak Street Direction:			
Looking southeast Survey Date: 12/14/2018			
Comments: The porch and neight vegetation to the right was removed as a pa remediation; the left s the porch was remedi in May 2018	t of it rt of ide of		
Photograph ID: 2 Photo Location: 310 Oak Street porch			MARKA
Direction: Looking southwest		Pa	
Survey Date: 12/14/2018			
Comments: Porch and vegetation removed	to be		











Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 7 Photo Location: Porch excavation	the loss		
Direction: Looking southeast			
Survey Date: 12/14/2018			
Comments: Approximately 22" of s removed against the eastern face of the buil wall	and the second second second second		
Photograph ID: 8			
Photo Location: Porch excavation			
Direction: Looking north		Lint .	
Survey Date: 12/14/2018	Site Case		
Comments: Approximately 23" of s removed from the north side of the excavation			

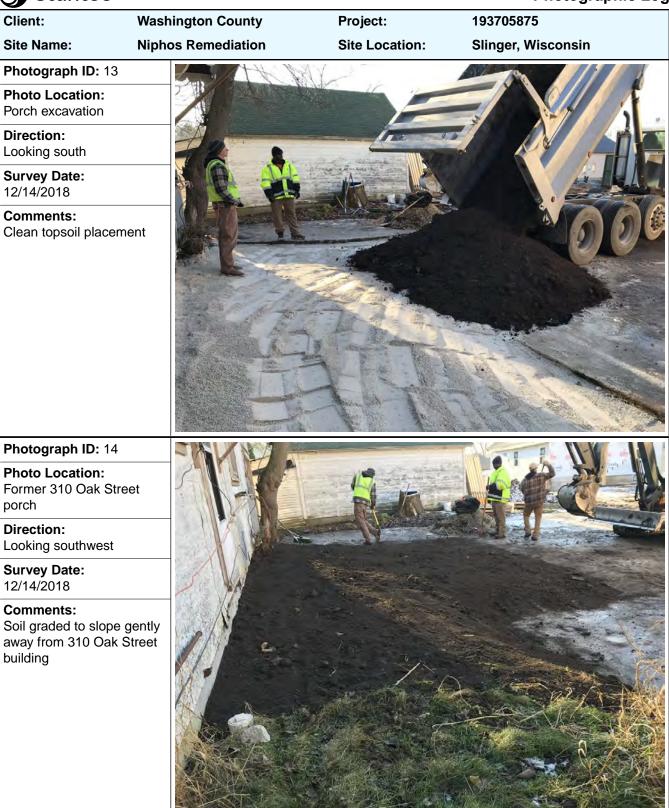


Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 9		10000	A A A A A A A A A A A A A A A A A A A
Photo Location: Porch excavation			
Direction: Looking east			
Survey Date: 12/14/2018			
Comments: Soil samples were ta the floor of the excar prior to placing liner backfilling with clear and top soil	vation and		
Photograph ID: 10			
Photo Location: Porch excavation			
Direction: Looking south			Lan .
Survey Date: 12/14/2018			17 And
Comments: Liner placement			



Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 11 Photo Location: Porch excavation			
Direction: Looking south		-	
Survey Date: 12/14/2018			
Comments: Clean, granular fill placement			
Photograph ID: 12	XXXX		
Photo Location: Porch excavation	XX	Jak in	A A
Direction: Looking east		ALL ALL	A A A
Survey Date: 12/14/2018	Dene		
Comments: Tamping fill using the bucket of a backhoe	2		







Client:	Washington County	Project:	193705875
Site Name:	Niphos Remediation	Site Location:	Slinger, Wisconsin
Photograph ID: 15 Photo Location: 310 Oak Street remen area	diated		
Direction: Looking southeast			
Survey Date: 12/14/2018			
Comments: Seeding the topsoil			
Photograph ID: 16	NOTED AVAN		NE MERE WIL
Photo Location: 310 Oak Street			She Hu
Direction: Looking southeast			
Survey Date: 12/14/2018			
Comments: 310 Oak Street post-December 2018 remedial activities			

ATTACHMENT C.5

DECOMMISIONING OF REMEDIAL SYSTEMS

Not applicable - No system or equipment was installed as part of remedial activities completed at the site.

ATTACHMENT C.6

OTHER

Not applicable - No other data or information is known to exist.

ATTACHMENT D

MAINTENANCE PLANS AND PHOTOGRAPHS

Table of Contents

Title	Status	Explanation (if applicable)
D.1 Descriptions of maintenance actions required	Attached	
D.2 Location maps	Attached	
D.3 Photographs	Attached	
D.4 Inspection Log	Attached	

ATTACHMENT D.1

DESCRIPTIONS OF MAINTENANCE ACTIONS REQUIRED

COVER or BARRIER MAINTENANCE PLAN Attachment D

May 24, 2021

Site Name: Niphos Coatings Inc. (Former)

Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) No.: 02-67-561163

Parcel Identification Number/Tax Key: V5-0081

Site Address: 308 and 310 Oak Street, Slinger, Wisconsin (the Site/Property)

- Site Location: Southwest ¼ of the Northeast ¼, Section 18, Township 10 North, Range 19 East, Village of Slinger, Washington County, Wisconsin
- Local Assessor Description: V Slinger ADDN to 1st ADDN, Lot 9+PT Lot 10 BLK 5, Doc 1127008, Sec 18-10-19, 0.32 ac.
- **Site Boundaries:** North of Kettle Moraine Drive, south of Oak Street, west of Water Street, and east of Chestnut Street.

The Site has two vacant buildings. An asphalt parking lot and driveway make up most of the southwest portion of the property. The former plating building and a residential home cover the majority of the remaining Site area. Areas of grass exist on the southwestern corner of the plating building, behind the southern wall of the plating building and in front of the residential building.

Introduction

This document is the Maintenance Plan for a barrier at the above-referenced property in accordance with the requirements of NR 724.13 (2), Wisconsin Administrative Code (WAC). The maintenance activities relate to the existing building barrier which addresses or occupies the area over soil exceeding established NR 720 WAC direct contact and soil to groundwater pathway residual contaminant levels and NR 140 WAC preventive action limits.

More site-specific information about this property/site may be found in:

- The case file in the WDNR Plymouth office
- The WDNR project manager is Alice Egan
- <u>BRRTS on the Web</u> (WDNR's internet-based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations
- <u>RR Sites Map/GIS Registry layer</u> for a map view of the site

D.1. Descriptions:

Description of Contamination

An inspection conducted by the State and Village of Slinger staff on August 20, 2012, led to the discovery of large volumes of toxic and hazardous materials stored in the main building. At the time of the inspection, the building was estimated to contain: 750 pounds (lbs) of copper cyanide, 27,598 lbs of nickel sulfate, 4,198 lbs of nitric acid, 3,500 lb. of sodium cyanide, and an unspecified quantity of hydrochloric acid and other chemicals.

An AECOM Phase II ESA documented areas of arsenic, lead, cyanide, and PAH impacts in soil beneath the building. In addition, metals were identified within groundwater samples collected beneath the building.

A Supplemental Site Investigation was completed by Stantec Consulting Services Inc. (Stantec) in 2016 was conducted to further characterize subsurface conditions and to address data gaps associated with previous assessment work completed by AECOM. Consistent with the findings of the AECOM Phase II ESA, impacts to soil and groundwater appear to be relatively limited. Although concentrations of cyanide and nickel in soil exceed the groundwater protection RCLs in some samples, the soil concentrations do not appear to represent an actual threat to groundwater quality at the Site, as the measured cyanide and dissolved nickel concentrations in groundwater samples are either below laboratory detection limits or below applicable NR 140 WAC groundwater standards. Other contaminants are present in soil and/or groundwater at concentrations that exceed one or more applicable soil or groundwater standards. These include arsenic and lead in soil and groundwater, and benzo(a)anthracene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene in soil.

Based on a telephone discussion between the WDNR and Stantec on October 15, 2019 regarding the closure request for the Property, the WDNR believed that the site investigation in relation to the Property does not appear to be complete and requested to perform a Property visit to assess which of the utilities can be located visually or identified using historical records. This was achieved by conducting a geophysical survey, ground penetrating radar and magnetometer survey, on November 7, 2019 combined with an evaluation of available historic information. Based on the results of the geophysical survey, site reconnaissance and further review of available information no further sampling related to buried site utilities, soil, groundwater and building materials was warranted to obtain closure with respect to the Chapter NR 726 Wisconsin Administrative Code.

On March 5, 2020, the WDNR reviewed the Case Closure packet under Chapter (Ch.) NR 726 Wisconsin Administrative Code (WAC) for the Property. A letter was received by Washington County from the WDNR on April 2, 2020 stating that closure was not granted and detailed remaining requirements for case closure was provided. Remaining requirements included additional groundwater monitoring to confirm previous results and to establish compliance with the Case Closure criteria of Ch. NR 726 WAC. Additional groundwater sampling was required from temporary monitoring wells TW-6 through TW-19. The samples were to be analyzed for volatile organic compounds (VOCs) and dissolved Resource Conservation and Recovery Act (RCRA) metals. VOCs were not detected above NR 140 PAL or ES values. Since the last sampling event in 2013, dissolved RCRA metal concentrations (specifically arsenic and lead), have significantly decreased in concentration. Dissolved lead concentrations are no longer above NR 140 PAL regulations and the arsenic concentrations above the NR 140 ES have decreased in volume as well.

A reminder letter was submitted to Washington County on August 17, 2020 for the evaluation of emerging contaminants in site investigation work at the Property. PFAS and perfluorooctanesulfonic acid (PFOS) in particular, were used as surfactants to reduce the surface tension of the electrolyte solution (reduce bubbles) and suppress air emissions of toxic metal fumes. According to available historical records and analytical data, electroless nickel plating was the primary focus of this small plating operation between 1982 and 2010 on the Property. It is unknown if the detected metals on the Property are a result of a release of plating solutions or some other source. It is likely that any PFAS releases would either be associated with spills of solutions/wastewater to the subsurface or atmospheric deposition. The spatial distribution of heavy metals impacts in soil is not consistent with known trench drains/wastewater treatment locations (i.e. unlikely a result of a spill) and the impacts are below asphalt/concrete (i.e. unlikely atmospheric deposition). Given the limited nature of metal contamination and the limited capacity of historical operations, further investigation for the presence of PFAS does not appear warranted. The WDNR concurred with this assessment via email on March 11, 2021.

Description of the Barrier to be Maintained

The current barrier consists of approximately 470 ft² of concrete/asphalt parking lot/driveway and the former remedial excavation areas which has been capped, 300 ft² of a grassed area surrounding SB6/TW15; which totals to 770 ft² (0.018 acres) of the 0.32-acre site. All areas of documented NR 720 RCL direct contact exceedances shown on **Figure D.2.2** are located beneath the above-described barrier.

Cover/Building/Slab/Barrier Purpose

The cover/barrier overlying the impacted soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The cover/barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in NR 140, WAC. Based on the current residential and commercial use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The barrier overlying the contaminated groundwater plume and/or soil and as depicted in **Figure D.2.2** will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into or exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed or where infiltration from the surface will not be effectively minimized will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by WDNR representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain

if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the barrier overlying the contaminated groundwater plume and/or soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the barrier and building, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of WDNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the property where concrete/pavement or soil cover is required as shown on the attached Cap Management Plan map, unless prior written approval has been obtained from the WDNR: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; and 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact WDNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with NR 727.07 WAC.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information

May 2021

Site Owner and Operator: Debora Sielski

Deputy Planning & Parks Administrator Washington County Planning & Parks Department 333 East Washington Street, Suite 2300 West Bend, WI 53095

262-335-4445

Signature:

Consultant:

Stantec Consulting Services Inc. 12075 Corporate Parkway, Suite 200, Mequon, WI 262-643-9177

WDNR:

Alice Egan 2300 North Martin Luther King Drive Milwaukee, WI 53212 414-26 3- 8 626

D.2 Location Map(s)

Include a location map which shows:

(1) the feature that requires maintenance;

(2) the location of the feature(s) that require(s) maintenance: on and off the source property;

(3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site;

(4) the extent and type of residual contamination; and

(5) all property boundaries.

D. 3 Photographs of Cover/Barrier

Include one or more photographs documenting the condition and extent of the cover/barrier/building/slab at the time of the closure request. Pertinent features must be visible and discernible. Include a title on each photograph, which identifies the site name and location of the feature, and the date on which the photograph was taken.

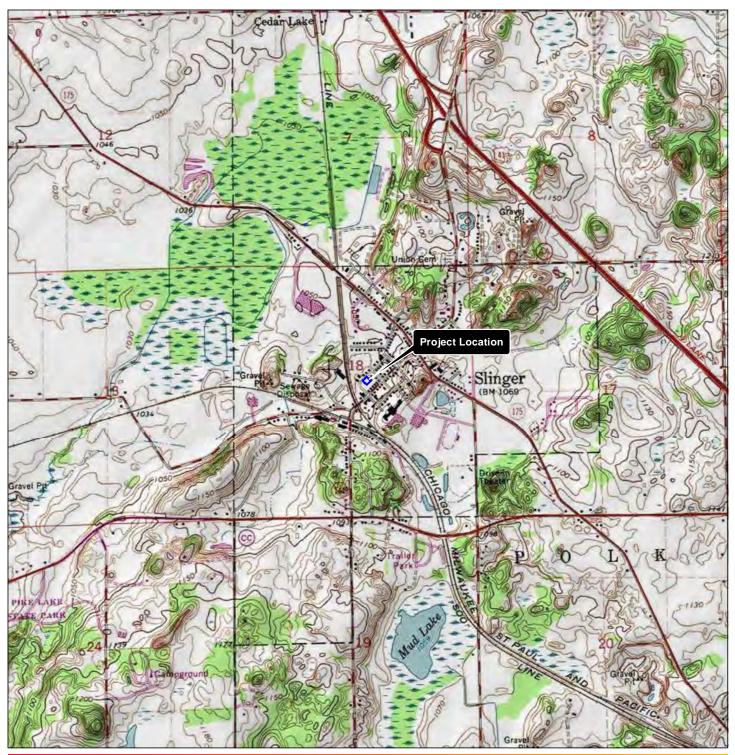
D.4 Continuing Obligations Inspection and Maintenance Log

Use WDNR Fillable Form Form 4400-305

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT D.2

LOCATION MAPS





<u>Legend</u> Property Boundary

Note 1, Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2, Data Sources Include: Stantec 3, Background: 7.5' Topographic Quadrangle

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and al claims arising in any way from the content or provision of the data.

Figure No. D.2.1 Title

Location Map

1,000

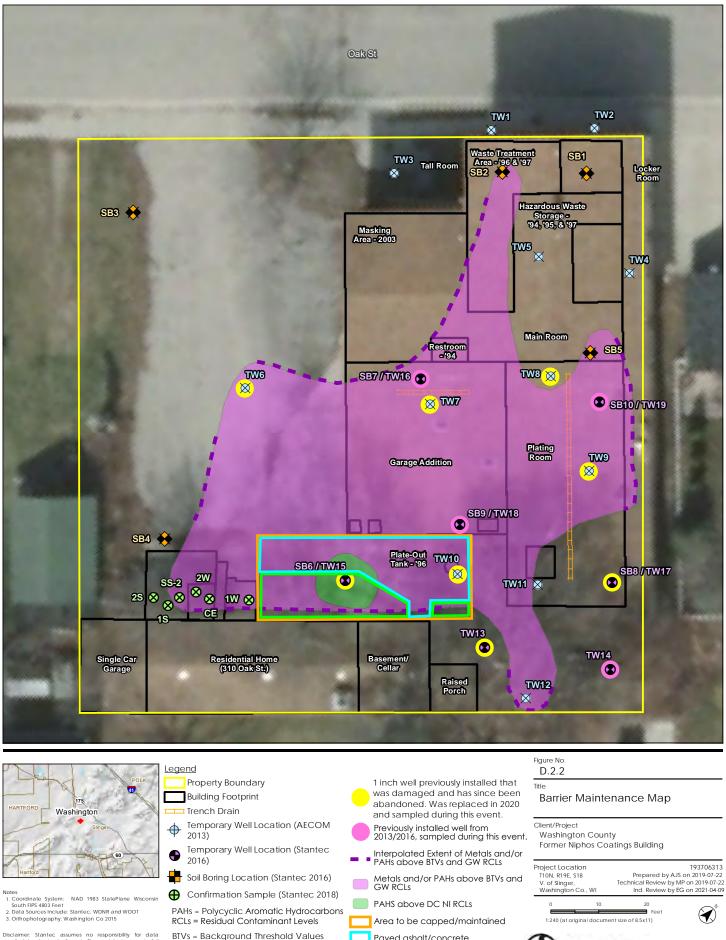
1:24,000 (at original document size of 8.5x11)

Stantec

Client/Project Washington County Former Niphos Coatings Building Project Location T10N, R19E, S18 V. of Slinger, Washington Co., WI 193703514 Prepared by AJS on 2016-04-01 Technical Review by BT on 2016-04-X Independent Review by X on 2016-04-X

2,000 Feet

Page 01 of 01



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DC = Direct Contact GW = Soil to Groundwater Pathway NI = Non-Industrial

Paved ashalt/concrete

Stantec

Page 01 of 01

Grassed area

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT D.3

PHOTOGRAPHS



Photographic Log





Photographic Log

Client:	Washington County	Project:	193706313
Site Name:	Niphos Coatings Inc. (Former)	Site Location:	Slinger, Wisconsin
Photograph ID: 3 Photo Location: 310 Oak Street			Sheeth
Direction: Looking southeast			
Survey Date: 12/14/2018			
Comments: 310 Oak Street post-December 2018 remedial activities. Pavement and former residential building act as a cap.			
Photograph ID: 4			
Photo Location: South portion of the Property		1	
Direction: Looking east			
Survey Date: 6/11/2020	- THE		
Comments: Paved portion that extreast and the former placement of clean fill/barrier.	ends		



Photographic Log

Client:	Washington County	Project:	193706313
Site Name:	Niphos Coatings Inc. (Former)	Site Location:	Slinger, Wisconsin
Photograph ID: 5			
Photo Location: Northwest portion of th Property	he IIII		
Direction: Looking northeast			
Survey Date: 11/7/2019			
Comments: Main building on the Property (former garage/plating/main ro capping the northwest portion of the Property	and the second s		

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT D.4

INSPECTION LOG

Page 1 of 2

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39. Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section

Activity (Site	e) Name				BRRTS No.			
Niphos Co	atings Inc (Form	er)		02-67-561163				
Inspections	nspections are required to be conducted (see closure approval letter): annually semi-annually other – specify 			When submittal of this form is required, submit manager. An electronic version of this filled out the following email address (see closure approv	form, or a scanne			
Inspection Date	Inspector Name	ltem	Describe the condition of the item that is being inspected	Recommendations for repair or mainte	recon	Previous nmendations lemented?	Photographs taken and attached?	
	mapeetor Harrie monitoring well cover/barrier vapor mitigation system other:			0	Y () N	⊖ y ⊖ n		
		monitoring well cover/barrier vapor mitigation system other:			0	Y () N	⊖ y ⊖ n	
		monitoring well						

monitoring well cover/barrier vapor mitigation system other:	n	⊖ Y ⊖ N	⊖ Y
monitoring well cover/barrier vapor mitigation system other:	n	OY ON	⊖ y ⊖ n
monitoring well cover/barrier vapor mitigation syster other:	n	OY ON	O Y O N
monitoring well cover/barrier vapor mitigation system other:	n	OY ON	O Y O N

						D.4
02-67-561163 BRRTS No.				Continuing Obligation Form 4400-305 (2/14)	ations Inspection and Ma	Aintenance Log Page 2 of 2
{Click to Add/Ec	dit Image}	Date added:	{Clic	ck to Add/Edit Image}	Date added:	
			1.12			
Title:			Title			

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT E

MONITORING WELL INFORMATION

All Monitoring wells have been located and were properly abandoned by 5/13/2021. Attached are the abandonment forms of the wells that have already been abandoned per NR 141.

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299. Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill TW-1					nt 🗌	Watershed/V Other:	Vastewater 🗹 Remed	liation/Redevelopment		
1. Well Location Information	1.00	1	1.00		2. Facility	/ Owner In	formation			
County WI Unio Washington Remov	que Well # of ed Well	Hi	cap #		Facility Nam Niphos					
Lattitude / Longitude (Degrees and	1 Minutes) M 'N 'W	ethod C	Code (see i	nstructions)	Facility ID (FID or PWS) License/Permit/Monitoring #					
7411/4 1/4	Section	Towns	ship Ran	ge ME	Original Wel Village of					
or Gov't Lot #	ov't Lot # N W			Present Wel						
Well Street Address 308 Oak Street					Village of	fSlinger				
Well City, Village or Town Well ZIP Code						ress of Prese	ent Owner			
Slinger			53068	2000	300 Sling	140 I 0				
Subdivision Name Lot #					City of Prese Slinger	ent Owner	State VVI	ZIP Code 53086		
Reason For Removal From Service WI Unique Well # of Replacement Well					4. Pump, Liner, Screen, Casing & Sealing Material					
Reason For Removal From Service WI Unique Well # of Replacement Well Borehole				Pump and piping removed?						
3. Well / Drillhole / Borehole	nformation) —			Liner(s) r	emoved?		Yes No NA		
Monitoring Well	Original Cons 7/18/13	truction	Dale (mm	/dd/yyyy)	Screen re Casing le	emoved? ft in place?		Yes INO N/A Yes INO N/A		
Water Well Borehote / Drillhole	If a Well Con please attach		n Report is	available,	Was casing cut off below surface? ✓Yes No N/A Did sealing material rise to surface? ✓Yes No N/A					
Construction Type: Drilled Driven (S Other (specify):	Sandpoint)	E	Dug		Did mater If yes	rial settle afte , was hole re	er 24 hours?	Yes No N/A Yes No N/A Yes No N/A		
Formation Type:					and the second se	and the second se	ng Sealing Material			
Unconsolidated Formation		Bedrock	c		Condu	ctor Pipe-Gra	avity 🔲 Conductor Pipe-Pum	ped		
Total Well Depth From Ground Su 15		1000)	Screen (Bento Sealing Mate	ned & Poured nite Chips)	Other (Explain):			
Lower Drillhole Diameter (in.)	Ca 1		epth (ft.)		Neat C	enais Cement Grout Cement (Con		nd Slurry (11 lb./gal. wl.) e-Sand Slurry " "		
Was well annular space grouted?	□ Ye	es 💽		Unknown		ete	Monitoring Well Boreholes Onl	e Chips		
If yes, to what depth (feet)? Depth to Water (feet)				Bentor	and the second second	Bentonite - Cem	nent Grout			
5. Material Used To Fill Well / D	rillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight		
					Surface	0.5	0.10			
Bentonite					0.5	15	0.20			
6. Comments				-		1				

7. Supervision of Work	DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Jordan Junion	License #	Date of Filling & Sealing (mm/dd/yyyy) 7/30/13	Date Received	Noted By
Street or Route 1555 RiverCenter Dr.	Telephone Number (414) 944-6080	Comments		
City	State ZIP Coo WI 53212	e Signature of Person Doing I	Nork	Date Signed

dnr.wi.gov Notice: Completion of this with chs. 281, 289, 291-29 year, depending on the pr form to the appropriate Df	03, 295, and 299, W ogram and conduct	fis. Stats., failure involved. Perso u. See instruction	e to file this form anally identifiable ons on reverse fo	93, 295, and 29 may result in a information on	9, Wis. Stats forfeiture of b this form is r	etween \$10-25.00	0, or imprisor	ment for up to one	
Verification Only	of Fill and Se	al Rout	e to: Drinking Water		Watershed/V	Vastewater	Remed	iation/Redevelopment	
TW-2			Waste Managem	ent	Other:				
1. Well Location Info	rmation			2. Facility	/ Owner In	formation			
County Washington	County WI Unique Well # of Hicap # Removed Well Vashington				e				
Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions)					D or PWS)				
	'N 'N	1	(see instruction		mit/Monitorir	ng #			
Ya 1 Ya Ya	Section	Township	Range E	Original Wel Village of					
or Gov't Lot #		V V							
Well Street Address 308 Oak Street				Village of	Slinger				
Well City, Village or Town Well ZIP Code 53068					Mailing Address of Present Owner 300 Slinger Rd				
Subdivision Name		Lot	22.0.2	City of Presi Slinger				ZIP Code 53086	
		10	1	A Dump	iner Sara	en, Casing & Se	1	A STATE OF A	
Reason For Removal Fro Borehole	m Service WI Un	ique Well # of R	eplacement Wel		d piping rem			Yes No No	
3. Well / Drillhole / Bo	the state of the second s			Liner(s) r	emoved?				
Monitoring Well	Original C 7/18/13	onstruction Date	e (mm/dd/yyyy)	Screen removed?					
Water Well					ft in place?				
Borehote / Drillhole	please at		port is available.	10 10 10 100	Was casing cut off below surface?				
Construction Type: Drilled Other (specify):	Driven (Sandpoint	D	ığ	Did mate If yes	rial settle afte , was hole re te chips were	er 24 hours?		Yes No N/ Yes No N/ Yes No N/	
Formation Type:		_		1		ing Sealing Materia			
Unconsolidated For	And the second se	Bedrock				avity Conduct		ped	
Total Well Depth From G 15		1		(Bento Sealing Mate	Screened & Poured Other (Explain):				
Lower Drillhole Diameter 1	(in.)	Casing Depth 15	(fl.)	Sand-	Image: Neat Cement Grout Image: Clay-Sand Slurry (11 lb./gal. wt.) Image: Sand-Cement (Concrete) Grout Image: Bentonite-Sand Slurry " "				
Was well annular space	grouted?	Yes No	o Unknow	n Concre		Monitorica Well D	Bentonite		
If yes, to what depth (fee	t)? Dep	th to Water (fee	t)	Bentor			ntonite - Cem ntonite - San	nent Grout	
5. Material Used To Fil	Well / Drillhole	_	_	From (ft.)	To (ft.)	No. Yards, Sat or Volume (d	cks Sealant	Mix Ratio or Mud Weight	
				Surface	0.5	0.10	and one only	intes trongit	
Bentonite				0.5	15	0.20			
					1	1		1	

7. Supervision of Work	DN	R Use Only			
Name of Person or Firm Doing Filling & Sealing Jordan Junion	License #	Date o 7/30/	f Filling & Sealing (mm/dd/yyyy) 13	Date Received	Noted By
Street or Route 1555 RiverCenter Dr.			Telephone Number (414) 944-6080	Comments	
	ate ZIP C VI 5321		Signature of Person Doing	Work	Date Signed

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill a	nd Seal	Route to:	=	Watershed/V Other:	Vastewater	Remediali	ion/Redevelopment
TW-3 1. Well Location Information			2. Facility / Owner Information				
	ue Well # of d Well	Hicap #	Facility Name Niphos				
Lattitude / Longitude (Degrees and	Minutes) Metho	d Code (see instructions)	s) Facility ID (FID or PWS) License/Permit/Monitoring #				
V4/V4 V4		wnship Range	Original Wel				
or Gov'l Lot #	14	N Hw	Village of				
Well Street Address 308 Oak Street			Present We Village of				
a stratic strates			Mailing Add	ress of Prese	ent Owner		
Well City, Village or Town		Well ZIP Code 53068	300 Sling	jer Rd			
Slinger Subdivision Name	Lat #	City of Present Owner State ZIP Code Slinger WI 53086					
	4. Pump,	Liner, Scre	en, Casing & Seali	ing Materia	al		
Reason For Removal From Service Borehole	WI Unique W		d piping rem		UYe		
3. Well / Drillhole / Borehole Ir	Liner(s) r	emoved?		LYe			
Monitoring Well	Original Construction Date (mm/dd/yyy			emoved? It in place?			
	f a Well Constru blease attach.	ction Report is available.	10.5		low surface? se to surface?	₽ _{Ye}	
Construction Type: Drilled Driven (Sa Other (specify):	andpoint)	Dug	Did mate If yes	rial settle afte , was hole re	er 24 hours?		es INO IN/A es No IN/A
Formation Type:			Required Me	ethod of Placi	ing Sealing Material		
Unconsolidated Formation	Beo	rock		ctor Pipe-Gra		Pipe-Pumper	i.
Total Well Depth From Ground Surt 15	face (ft.) Casing) Diameter (in.)	Bealing Mate	ned & Poured nite Chips) erials	1 U Other (Expla	ain):	
Lower Drillhole Diameter (in.) 1	Casing 15	g Depth (ft.)	Neat C	Cement Groui Cement (Con			Slurry (11 lb./gal. wl.) and Slurry " "
Was well annular space grouted?	Yes	No Unknown	For Monitori		Monitoring Well Bore	Bentonile C	hips
If yes, to what depth (feet)?	Depth to Wa	ater (feet)	Benlor		Bento	nite - Cement nite - Sand S	
5. Material Used To Fill Well / Dr	Ilhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight
			Surface	0.5	0.10		
Bentonite			0.5	15	0.20		
6. Comments			1	dia ta			

7. Supervision of Work	DNR Use Only							
Name of Person or Firm Doing Filling & Sealing Jordan Junion		Licen	use # Date of Filling & Sealing (mm/dd/yyyy) 7/30/13) Date Received	Noted By		
Street or Route 1555 RiverCenter Dr.					Telephone Number (414)944-6080	Comments		
City Milwaukee		ate VI	ZIP Code 53212		Signature of Person Doing	Work	Date Signed	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR. 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill a	Verification Only of Fill and Seal			Watershed/V	Vastewater	Remed	liation/Redevelopment
TW-4		Waste Manageme	nt 🗌	Other:			
1. Well Location Information			2. Facility / Owner Information				
County WI Uniqu Washington Removed		Hicap #	Facility Name Niphos				
Lattitude / Longitude (Degrees and I	Vinutes) Method	d Code (see instructions)	Facility ID (F	ID or PWS)			
*	^N		License/Permit/Monitoring #				
7/4 / 1/4 //4 //4 //4	Section Tow	Nnship Range E	Original Wel Village of	Slinger			
Well Street Address		N W	Present Wel Village of				
308 Oak Street		-		ess of Prese	ent Owner		
Well City, Village or Town Slinger	Vell City, Village or Town Well ZIP Code Slinger 53068						
Subdivision Name			City of Prese Slinger	ent Owner		State WI	ZIP Code 53086
Reason For Removal From Service	Reason For Removal From Service WI Unique Well # of Replacement Well				en, Casing & Seal	ing Mate	rial
Borehole					oved?		Yes No N/A
3. Well / Drillhole / Borehole In	Liner(s) removed?						
Later the state of	••••••••••••••••••••••••••••••••••••	on Date (mm/dd/yyyy)	Screen re			2	
Water Well	7/18/13		Casing left in place? Yes No N// Was casing cut off below surface? ✓Yes No N//				
	a Well Construct lease attach.	tion Report is available,	10.0000.0000	C			Yes No N/A
Construction Type: Drilled Driven (Sau Other (specify):	ndpoint)	Dug	Did sealing material rise to surface? ✓ Yes No N/ Did material settle after 24 hours? ✓ Yes ✓ No N/ If yes, was hole retopped? ✓ Yes ✓ No ✓ N/ If bentonite chips were used, were they hydrated with water from a known safe source? ✓ Yes ✓ No ✓ N/				
Formation Type:	100				ng Sealing Material		
Unconsolidated Formation	Bedro	ock		ctor Pipe-Gra			ped
Total Well Depth From Ground Surfa	ace (ft.) Casing	Diameter (in.)		ed & Poured nite Chips) arials	U Other (Expl	ain):	
Lower Drillhole Diameter (in.) 1	Casing 15	Depth (ft.)		ement Grout Cement (Con		1	id Slurry (11 lb./gal. wt.) e-Sand Slurry " "
Was well annular space grouted?	Yes	No Unknown	Concre	1.0	Monitoring Well Bore	Bentonite	
If yes, to what depth (feet)?	Depth to Wat	er (feet)	Bentor	ite Chips ar Bentonite	Bento		ient Grout
5. Material Used To Fill Well / Dril	llhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight
	-		Surface	127 2.21			
Bentonite			Surface	15	0.20		
6. Comments			1		1		

7. Supervision of Work	DNR Use Only					
Name of Person or Firm Doing Filling & Sealing Jordan Junion	License #	Date of 7/30/1	Filling & Sealing (mm/dd/yyyy) 3	Date Received	Noted By	
Street or Route 1555 RiverCenter Dr.			Telephone Number (414)944-6080	Comments		
	State ZIP Cod M 53212	e	Signature of Person Baing V	Nork	Date Signed	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fil	ll and Seal	Route to:	nt	Watershed/V Other:	Vaștewater 🔽	Remediatio	on/Redevelopment	
1. Well Location Information	n		2. Facility	/ Owner In	formation			
	nique Well # of wed Well	Hicap #	Facility Nam Niphos					
Lattitude / Longitude (Degrees a	nd Minutes) Metho N	I Id Code (see instructions)		ID or PWS) mit/Monitorin	ng #			
1/4/1/4	Section To	wnship Range E	Original Wel Village of					
or Gov't Lot #		N W	Present Wel	-				
Well Street Address 308 Oak Street			Village of Slinger					
Well City, Village or Town Slinger		Well ZIP Code 53068	300 Sling	and the second sec				
Subdivision Name		Lot #	City of Prese Slinger	ent Owner			P Code 53086	
Reason For Removal From Serv	ico WI Hnique We	Il # of Perilacement Well	4. Pump, I	iner, Scre	en, Casing & Sealin	ng Materia	1	
Borehole				d piping remo	oved?	Yes		
3. Well / Drillhole / Borehole Information			Liner(s) re	emoved?		LYes		
Monitoring Well 0riginal Cons 7/18/13		lion Date (mm/dd/yyyy)	Screen re Casing le	moved? It in place?				
Water Well Borehole / Drillhole	If a Well Construct please attach.	tion Report is available.			low surface?	✓Yes		
Construction Type: Drilled Driven Other (specify):	(Sandpoint)	Dug	□ Did sealing material rise to surface? □ Yes □ No □ No □ Did material settle after 24 hours? □ Yes □ No □ No □ If yes, was hole retopped? □ Yes □ No □ No □ If bentonite chips were used, were they hydrated with water from a known safe source? □ Yes □ No □ No					
Formation Type:	Bed	rack	Required Me		ing Sealing Material			
Total Well Depth From Ground S 11		Diameter (in.)	Screen (Bento Sealing Mate	ned & Poured nite Chips)		Providencial con-		
Lower Drillhole Diameter (in.) 1	Casing 11	Depth (ft.)	Neat C	ement Grout			lurry (11 lb./gal. wt.) and Slurry " "	
Was well annular space grouted	? Yes		For Monitori		Monitoring Well Boreh	Bentonite Ch toles Only:	nips	
If yes, to what depth (feet)?	Depth to Wa	ler (feet)	Bentor		Bentoni			
5. Material Used To Fill Well /	Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks S or Volume (circle		Mix Ratio or Mud Weight	
W. L. M.			Surface					
Bentonite			Surface	11	0.15			
6. Comments			1		1			

7. Supervision of Work								
Name of Person or Firm Doing Filling & Sealing Jordan Junion	License #	Date of Filling & Sealing (mm/dd/yyyy) 7/30/13	Date Received	Noted By				
Street or Route 1555 RiverCenter Dr.	Telephone Number (414) 944-6080		Comments					
	tale ZIP C VI 532		Nork	Date Signed				

State of Wis., Dept. of Natural dnr.wi.gov	Resources				Well / Drillhole / Bore Form 3300-005 (R 4/08)	hole Fill	ling & Sealing Page 1 of 2				
with chs. 281, 289, 291-293, 29	95, and 299, W m and conduct	fis. Stats., fi Involved. I u. See inst	ailure to file th Personally ide ructions on re	is form m ntifiable in	 295, and 299, Wis. Stats., and ch. NR 141, ay result in a forfeiture of between \$10-25,00 nformation on this form is not intended to be more information. 	0, or imprise	onment for up to one				
Verification Only of	Fill and Se		Route to:	Water anageme	Watershed/Wastewater						
TW-6			waste wi	anageme							
1. Well Location Informat	Unique Well #	tof he	cap #		2. Facility / Owner Information Facility Name						
	Removed Well				Niphos						
Lattitude / Longitude (Degrees	s and Minutes) Method C	Code (see inst	tructions)	Facility ID (FID or PWS)						
	'N 'V				License/Permit/Monitoring #						
1/4 1/4	Section	Towns	hip Range	TE	Original Well Owner						
or Gov't Lot #			N	Πw	Village of Slinger						
Well Street Address 308 Oak Street			- 41		Present Well Owner Village of Slinger						
Well City, Village or Town			Well ZIP Cod 53068	de	Mailing Address of Present Owner 300 Slinger Rd						
Subdivision Name			-	City of Present Owner Slinger	State WI	and the second se					
Reason For Removal From Se Borehole	ervice WI Un	ique Well #	of Replaceme	ent Well	 Pump, Liner, Screen, Casing & So Pump and piping removed? 		erial Yes No 🖉 N/A				
3. Well / Drillhole / Boreh	ole Informat	ion			Liner(s) removed?		JYes □No ₽N/A				
Monitoring Well	Original C 7/18/13		Date (mm/do	а/уууу)	Screen removed? Casing left in place?	•	Yes No N/A Yes No N/A				
Water Well Borehole / Drillhole	If a Well please at		n Report is av	ailable,	Was casing cut off below surface? Did sealing material rise to surface?		Yes No N/A				
Construction Type:					Did material settle after 24 hours?		Yes INO DNA				
—	en (Sandpoint)	Ē	Dug		If yes, was hole retopped? If bentonite chips were used, were they h	E	JYes DNo DN/A				
Other (specify):					with water from a known safe source?	V	Yes No N/A				
Formation Type:	on	Bedrock	¢		Required Method of Placing Sealing Materia		nped				
Total Well Depth From Groun 15	d Surface (ft.)	Casing Dia	ameter (in.)		Screened & Poured (Bentonite Chips) Other (E Sealing Materials	xplain):					
Lower Drillhole Diameter (in.) 1	0.01	Casing De 15	epth (ft.)		Neat Cement Grout Sand-Cement (Concrete) Grout		and Slurry (11 lb./gal. wt.) ite-Sand Slurry " "				
Was well ensuler apace grout	ada [Ivan D		laknown	Concrete	Bentoni	te Chips				

7. Supervision of Work	DNR Use Only					
Name of Person or Firm Doing Filling & Sealing Jordan Junion		icense # Date of Filling & Sealing (mm/dd/yy) 7/30/13			Date Received	Noted By
Street or Route				Telephone Number	Comments	
1555 RiverCenter Dr.				(414)944-6080		Sec. 2. 1
City Milwaukee	State ZIP Code Signature of Person Domp WI 53212		Work	Date Signed		

No.

Unknown

For Monitoring Wells and Monitoring Well Boreholes Only:

0.10

0.20

Bentonite - Cement Grout

Mix Ratio or Mud Weight

Bentonite - Sand Slurry

No. Yards, Sacks Sealant or Volume (circle one)

Bentonite Chips

From (ft.)

Surface

0.5

Granular Bentonite

15

To (ft.) 0.5

0

Yes

Depth to Water (feet)

Was well annular space grouted?

5. Material Used To Fill Well / Drillhole

If yes, to what depth (feet)?

Bentonite

6. Comments

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of Page 1 of 2

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Verification Only of Fill	and Seal	Route to:		Watershed/V	Vastewater	Remed	iation/Redevelopment
TW-7		Waste Manageme	ent 🗌	Other:			
1. Well Location Information	1		2. Facility	/ Owner In	formation		
	que Well # of ed Well	Hicap #	Facility Nam Niphos	e			
Lattitude / Longitude (Degrees and	d Minutes) Metho	I od Code (see instructions	Facility ID (FID or PWS)				
······································	Section To	wnship Range TE	Original Wel				
or Gov't Lot #		N DW	Village of				
Well Street Address 308 Oak Street	9 ~~ _1		Present Well Village of	2. M. C. 2. M. A. C.			
Well City, Village or Town Slinger		Well ZIP Code 53068	-Mailing Add 300 Sling	ress of Prese Jer Rd	ent Owner		
Subdivision Name	Lot #	City of Prese Slinger	ent Owner		Slate WI	ZIP Code 53086	
Reason For Removal From Service	MI Unique We	ell # of Replacement Well	4. Pump, I	Liner, Scre	en, Casing &	& Sealing Mate	rial
Borehole					oved?		
3. Well / Drillhole / Borehole Information			Liner(s) n				Yes No N/A
Monitoring Well 7/18/13		tion Date (mm/dd/yyyy)	Screen re Casing le	emoved? ft in place?			Yes No N/A
Water Well Borehole / Drillhole	If a Well Construit please attach.	ction Report is available.	1 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A		low surface?		Yes No N/A Yes No N/A
Construction Type: Drilled Driven (S Other (specify):	Sandpoint)	Dug	Did sealing material rise to surface? Did material settle after 24 hours? If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source?				
Formation Type:	Bed	rock	Required Me		ing Sealing Ma		
Total Well Depth From Ground Su 11) Diameter (in.)		ned & Poured nite Chips) erials	Othe	er (Explain):	
Lower Drillhole Diameter (in.) 1	Casing 11	Depth (ft.)	Neat C	Cement Grout Cement (Con			nd Slurry (11 lb /gal. wt.) e-Sand Slurry." "
Was well annular space grouted?	Yes	No Unknown	For Monitori		Monitorina W	Bentonite ell Boreholes Onl	CONTRACTOR OF A
If yes, to what depth (feet)?	ves, to what depth (feet)? Depth to Water (feet)			nite Chips lar Bentonite		Bentonite - Cem Bentonite - San	ent Grout
5. Material Used To Fill Well / D	rillhole		From (ft.)	To (ft.)	No. Yards, or Volum	, Sacks Sealant ne (circle one)	Mix Ratio or Mud Weight
Bentonite			Surface Surface	11	0.15		
6. Comments							

7. Supervision of Work		DNR Use Only						
Name of Person or Firm Doing Filling & Sealing Jordan Junion				Date of 7/30/1	Filling & Sealing (mm/dd/yyyy) 3	Date Received	Noted By	
Street or Route 1555 RiverCenter Dr.			_		Telephone Number (414)944- <u>6</u> 080	Comments		
City Milwaukee	St	ate VI	ZIP Code 53212		Signature of Person Doing	Work	Date Signed	
, minitality of		**			1 your up			

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal			aler		Watershed/V	Vastewater	Remed	liation/Redevelopment	
TW-8		Waste Man	agemer	nt 🗌	Other:				
1. Well Location Information				2. Facility / Owner Information					
County WI Uniqu Washington Removed		licap #		Facility Name Niphos					
Lattitude / Longitude (Degrees and I		Code (see instru	uctions)	Facility ID (F	ID or PWS)				
	`N 'W			License/Peri	mit/Monitorin	ig #			
	Section Town	nship Range	E	Original Wel Village of					
or Gov't Lot #		N	W	Present Wel	I Owner				
Well Street Address 308 Oak Street				Village of	Slinger				
Well City, Village or Town		Well ZIP Code	(Mailing Add 300 Sling	ess of Prese er Rd	ent Owner		2	
Slinger Subdivision Name		53068 Lot #		City of Prese Slinger	ent Owner		State WI	ZIP Code 53086	
	1			iner Scre	en, Casing & Se	aling Mate	rial		
Reason For Removal From Service Borehole	vice WI Unique Well # of Replacement Well				d piping rem				
3. Well / Drillhole / Borehole Information				Liner(s) re	emoved?			Yes No N/A	
5 M	iginal Constructic 7/18/13	uction Date (mm/dd/yyyy)		Screen re				Yes INO N/A	
Water Well		I Construction Report is available.			ft in place?	low surface?		Yes No N/A	
	lease attach.				1. State 1997 State	se to surface?		Yes No N/A	
Construction Type:	ndpoint)	Dug		Did material settle after 24 hours? Yes No N// If yes, was hole retopped? Yes No N// If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N//					
Other (specify):			_						
Formation Type:	-			and the second se	and the second sec	ng Sealing Materia			
Unconsolidated Formation	Bedro	ck			ctor Pipe-Gra		or Pipe-Pum	ped	
Total Well Depth From Ground Surfa	ace (ft.) Casing E	Diameter (in.)		Screened & Poured (Bentonite Chips) Other (Explain): Sealing Materials					
Lower Drillhole Diameter (in.) 1	Casing L 15	Depth (ft.)		Neat C	Cement Grout Cement (Con	E CONTRACTOR OF	-	nd Slurry (11 lb./gal. wt.) e-Sand Slurry " "	
Was well annular space grouted?	Yes	No Un	known	For Monitori		Monitoring Well Bo	Bentonite		
If yes, to what depth (feet)?	Depth to Wate	er (feet)		Bentor	nite Chips ar Bentonite	Ben	tonite - Cem tonite - San	nent Grout	
5. Material Used To Fill Well / Dri	llhole			From (ft.)	To (ft.)	No. Yards, Sac or Volume (cl		Mix Ratio or Mud Weight	
			_	Surface					
Bentonite				Surface	15	0.20			
6. Comments								1	

of Filling & Sealing (mm/dd/yyyy) 0/13	Date Received	Noted By
	1	
Telephone Number (414)944-6080	Comments	
Signature of Person Deling I	Work	Date Signed
	(414) 944-6080 Signature of Person Deling V	(414) 944-6080 Signature of Person Defing Work

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o Page 1 of 2

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Verification Only of Fil			Route to:				nt 🗌	Watershed/V Other:	Nastewater 🗹 Remedi	ation/Redevelopment	
1. Well Location Information	1	-					2. Facility	/ Owner In	nformation		
	ique Well # a ved Well	f Hi	cap #				Facility Nam Niphos				
Lattitude / Longitude (Degrees ar	d Minutes)	Method (Code (see inst	ructio	ons)	Facility ID (F	ID or PWS)		and the second second second	
*	^N						License/Per	mit/Monitorin	ng #		
Va / Va	Section	Towns	ship	Range	[1]	E	Original Wel				
or Gov't Lot #	0.000		N	1.1	H	w	Village of				
Well Street Address 308 Oak Street	전 전철 영습이 가 위한 것 같아요. 아파가					Present Wel Village of	fSlinger				
Well City, Village or Town			Well	ZIP Cod	te	-		ress of Prese	ent Owner		
Slinger						300 Sling	2	louis	This could		
Subdivision Name Lot #						City of Prese Slinger	enj Owner	State WI	ZIP Code 53086		
Reason For Removal From Servi	co WI Uniqu	ie Well #	of Re	nlaceme	ont W	lell	4. Pump, I	Liner, Scre	en, Casing & Sealing Mate	rial	
Borehole				SM	Pump and	d piping rem					
3. Well / Drillhole / Borehole Information					Liner(s) n	emoved?		Yes No NA			
Original Construction Date (mm/dd/yyy 7/18/13			/уууу	у)	Screen re Casing le	emoved? ft in place?		Yes No N/A Yes No N/A			
Water Well Borehole / Drillhole	If a Well Co please attac		n Rep	ort is av	ailabl	e.	1.11.12.14.14.1			Yes No N/A Yes No N/A	
Construction Type:	(Sandpoint)	C	Duş	9			Did sealing material rise to surface?				
Formation Type:		-	_		-	-			ing Sealing Material		
Unconsolidated Formation	E	Bedroc	k				Condu	ctor Pipe-Gra	avity 🔲 Conductor Pipe-Pump	bed	
Total Well Depth From Ground S 15	urface (ft.) C	asing Di	amete	er (in.)			Bentonite Chips)				
Lower Drillhole Diameter (in.)		asing De	epth (f	t.)				enais Cement Grout Cement (Con		d Slurry (11 lb./gal. wt.)	
Was well annular space grouted?			No		Inkno	own	Concre	əte	Bentonile		
If yes, to what depth (feet)? Depth to Water (feet)						Benior		Monitoring Well Boreholes Only Bentonite - Cem Bentonite - Sand	ent Grout		
5. Material Used To Fill Well / I	5. Material Used To Fill Well / Drillhole					From (ft.)	To (ft.)	No. Yards, Sacks Sealant pr Volume (circle one)	Mix Ratio or Mud Weight		
				_	_	_	Surface				
Bentonite	_		_	_		_	Surface	15	0.20		
6. Comments			-			_				J	

7. Supervision of Work			and the second sec	DNR Use Only		
Name of Person or Firm Doing Filling & Sea Jordan Junion	aling Lice	nse #	Date of Filling & Sealing (mm/dd/yyyy) 7/30/13	Date Received	Noted By	
Street or Route			Telephone Number	Comments		
1555 RiverCenter Dr.			(414)944-6080	1		
City Milwaukee	State WI	ZIP Code 53212	Signature of Person Deling	Work	Date Signed	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o Page 1 of 2

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Verification Only of Fill and Seal			ater		Watershed/V	Vastewater	Remediation	n/Redevelopment	
TW-10		Waste Man	nagemer	nt 🗌	Other:				
1. Well Location Information	1		1	2. Facility / Owner Information					
County WI Uni Washington Remov	que Well # of I ed Well	Hicap #		Facility Name Niphos					
Lattitude / Longitude (Degrees an	d Minutes) Method	Code (see instru	uctions)	Facility ID (F	ID or PWS)				
	^N •_W			License/Perr	nit/Monitorin	g #			
V4/V4 V4		nship Range	E	Original Well Village of					
terre and the second se		N	W	Present Well	Owner				
Well Street Address 308 Oak Street				Village of	•		-		
Well City, Village or Town Slinger	Well ZIP Code 53068		Mailing Addr 300 Sling	er Rd	ent Owner				
Subdivision Name		Lot #		City of Prese Slinger	ent Owner			9 Code 3086	
Reason For Removal From Service WI Unique Well # of Replacement Wel			t Wall	-4. Pump, Liner, Screen, Casing & Sealing Material					
Borehole			Pump and piping removed?						
3. Well / Drillhole / Borehole Information				Liner(s) re	emoved?		Yes		
Monitoring Well	Original Constructio 7/18/13	on Date (mm/dd/yyyy)		Screen re Casing lel	moved? It in place?		✓Yes	No DNA	
Water Well Borehole / Drillhole	If a Well Construct please attach.	ion Report is avai	lable,			low surface? se to surface?	✓Yes✓Yes		
Construction Type: Drilled Driven (Specify):	Sandpoint)	Dug		□ Did sealing material rise to surface? □ Yes □ No □ No □ Did material settle after 24 hours? □ Yes □ No □ No □ If yes, was hole retopped? □ Yes □ No □ No □ If bentonite chips were used, were they hydrated with water from a known safe source? □ Yes □ No □ No					
Formation Type:	-					ng Sealing Material			
Unconsolidated Formation	Bedro		_		ctor Pipe-Gra				
Total Well Depth From Ground Su 15	urface (ft.) Casing I 1	Diameter (in.)		Screened & Poured (Bentonite Chips) Other (Explain): Sealing Materials					
Lower Drillhole Diameter (in.) 1	Casing I 15	Depth (ft.)		177	ement Grout Cement (Con		lay-Sand Slu entonite-Sar	urry (11 lb /gal_wt.) nd Slurry " "	
Was well annular space grouted?	Yes		known	Concre	te		entonite Chij	ps	
If yes, to what depth (feet)? Depth to Water (feet)				Benton	ite Chips ar Bentonite	Bentonite	e - Cement (e - Sand Slu		
5. Material Used To Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks So or Volume (circle	ealant	Mix Ratio or Mud Weight	
				Surface		1 · · · · · · · · · · · · · · · · · · ·			
Bentonite			_	Surface	15	0.20			
6. Comments			-						

7. Supervision of Work	DNR Use Only				
Name of Person or Firm Doing Filling & Sealing Jordan Junion			Date of Filling & Sealing (mm/dd/yyyy) [7/30/13	Date Received	Noted By
Street or Route			Telephone Number	Comments	
1555 RiverCenter Dr.	- /		(414) 944-6080		-
City S Milwaukee		ZIP Code 53212	Signature of Person Dorng W	fork	Date Signed

Well / Drillhole / Borehole Filling & Sealing Page 1 of 2

Form 3300-005 (R 4/08)

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Verification Only of Fill and Seal			Route to:	ater		Watershed/V	Vastewater 🔽 F	Remediation/Redevelopment			
TW-11	er (el el e		Waste Man	agemen	it 🗌	Other:					
1. Well Location Information					2. Facility	/ Owner In	formation				
County WI Uniq Washington Remove	ue Well # of ed Well	Hi	cap #		Facility Name Niphos						
Lattitude / Longitude (Degrees and	Minutes) N	Method C	Code (see instru	ctions)	Facility ID (F	ID or PWS)					
	'N 'W				License/Perr	mit/Monitorin	ig #				
Ya1 Ya Ya	Section	Towns	hip Range	TE	Original Wel						
or Gov'l Lot #	1	-	N	W	Village of Present Wel						
Well Street Address 308 Oak Street					Village of						
Well City, Village or Town Well ZIP Code						ress of Prese	ent Owner				
Slinger 53068				300 Sling			- Internet				
Subdivision Name Lot #			Lot #	-	City of Prese Slinger	ent Owner	7.77	ate ZIP Code VI 53086			
Description Description Well of Deslagement Well				Mali	4. Pump, Liner, Screen, Casing & Sealing Material						
Reason For Removal From Service Borehole	al From Service WI Unique Well # of Replacement Well			tvven	Pump and	d piping remi	oved?	Ves No N/A			
3. Well / Drillhole / Borehole Information					Liner(s) re	emoved?		Yes No N/A			
Monitoring Well	Driginal Cons 7/18/13	struction	Date (mm/dd/y	ууу)	Screen re Casing le	emoved? ft in place?		Ves No N/A			
	If a Well Cor please attac	struction Report is available.			Was casi	ng cut off be	low surface? se to surface?	Ves No N/A			
Construction Type:							er 24 hours?	Dyes INO DNA			
Drilled Driven (S	andpoint)	Ľ	Dug		If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source?						
Formation Type:		-					ng Sealing Material				
Unconsolidated Formation		Bedrock	¢		Condu	ctor Pipe-Gra	avity 🔲 Conductor Pipe	e-Pumped			
Total Well Depth From Ground Sur 15	face (ft.) Ca	asing Dia	ameter (in.)	-	Screened & Poured (Bentonite Chips) Other (Explain):						
Lower Drillhole Diameter (in.) 1		asing De 5	epth (ft.)		Neat C	ement Grout		ay-Sand Slurry (11 lb./gal. wt.) entonite-Sand Slurry " "			
Was well annular space grouted?	Πv	es 💽		known	Concrete Bentonile Chins			antonile Chips			
If yes, to what depth (feet)? Depth to Water (feet)					Bentor		Bentonite	- Cement Grout			
5. Material Used To Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Se or Volume (circle o					
					Surface		er toranic (entile c	indu troight			
Bentonite					Surface	15	0.20				
6. Comments		-									

7. Supervision of Work	DNR Use Only					
Name of Person or Firm Doing Filling & Sealing Jordan Junion	Licens	cense # Date of 7/30/1		Filling & Sealing (mm/dd/yyyy) 3	Date Received	Noted By
Street or Route				Telephone Number	Comments	
1555 RiverCenter Dr.				(414)944-6080		
	itate M	ZIP Code 53212		Signature of Person Doing	Work	Date Signed

Well / Drillhole / Borehole Filling & Sealing Page 1 of 2

Form 3300-005 (R 4/08)

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		Route to:							
Verification Only of Fill	and Seal	Drinking Wate	er		Watershed/W	Vastewater [Remediati	on/Redevelopment	
TW-13		Waste Manag	jemen	it 🗌	Other:				
1. Well Location Information			1	2. Facility	/ Owner In	formation			
		Hicap #		Facility Nam	е				
Washington Remov	ed Well		1	Niphos					
Lattitude / Longitude (Degrees and	Minutes) Metho	Code (see instruct	ions)	Facility ID (F	ID or PWS)				
•	'N		,						
				License/Perr	mil/Monitorin	g #			
	- <u> </u>		1	Original Wel	Owner				
Val Va Va	Section Tov	nship Range]E	Village of					
or Gov't Lot #		N] W	Present Wel	-				
Well Street Address			1	Village of					
308 Oak Street		Mailing Addr	ess of Prese	ent Owner					
Well City, Village or Town	0	Well ZIP Code		300 Sling	er Rd				
Slinger 53068				City of Prese	ent Owner		State ZI	IP Code	
Subdivision Name		Lot #	1	Slinger			WI 5	53086	
Reason For Removal From Servic	e WI Unique Wel	# of Replacement V	Vell	4. Pump, L	iner, Scree	en, Casing & Seal	ling Materia	l i	
Borehole				Pump and	d piping remo	oved?	□ _{Ye}	s INO N/A	
3. Well / Drillhole / Borehole		Liner(s) re			Ye				
		on Date (mm/dd/yy)	VV)	Screen re			✓Ye		
Monitoring Well	7/18/13		,,,,	Casino le	ft in place?		Ye		
Water Well	If a Well Construc	tion Report is availab	ole.		ng cut off bel	ow surface?	✓Ye		
Borehole / Drillhole	please attach.					se to surface?	✓Ye		
Construction Type:					ial settle afte				
Drilled Driven (S	Sandpoint)	Dug		If yes, was hole retopped?					
Other (specify):				If bentonite chips were used, were they hydrated with water from a known safe source?					
Formation Type:			-			ng Sealing Material		S LINO LINA	
Unconsolidated Formation	Bedr	ack		Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Ground Su			_	Bentonite Chips) Other (Explain):					
15	1			Sealing Mate					
Lower Drillhole Diameter (in.)	Casing	Depth (ft.)			ement Grout] Clay-Sand S	Slurry (11 lb./gal. wt.)	
1	15			Sand-C	Cement (Cond	crete) Grout		and Slurry " "	
Was well annular space grouted?	Yes			Concre	ete		Bentonite Ch	nips	
				For Monitoring Wells and Monitoring Well Boreholes Only:					
If yes, to what depth (feet)?	Depth to Wat	er (teet)				Bento	onite - Cement	Grout	
7				Granul	ar Bentonite		onite - Sand SI		
5. Material Used To Fill Well / D	rillhole			From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	s Sealant cle one)	Mix Ratio or Mud Weight	
			_	Surface					
Bentonite		2.67.61.0100		Surface	15	0.20			
6. Comments									

Supervision of Work							
License #	Date of Filling 8 7/30/13	Sealing (mm/dd/yyyy) Date Received	Noted By			
			Comments				
and.	e Sign	ature of Person Doing	Work	Date Signed			
	License # tate ZIP Code MI 53212	Telepho (414) tate ZIP Code Signa	Telephone Number (414) 944-6080 tate ZIP Code Signature of Person Doing	7/30/13 Telephone Number Comments (414)944-6080 Comments tate ZIP Code Signature of Person Doing Work			

Well / Drillhole / Borehole Filling & Sealing Page 1 of 2

Form 3300-005 (R 4/08)

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	1	Route to:						
Verification Only of Fill	and Seal	Drinking Water		Watershed/W	Vastewater	Remediation	n/Redevelopment	
TW-15		Waste Manageme	nt 📋	Other:				
1. Well Location Information			2. Facility	/ Owner In	formation			
		cap #	Facility Nam	e				
Washington	ed Well		Niphos					
Lattitude / Longitude (Degrees and	Minutes) Method (Code (see instructions)	Facility ID (F	ID or PWS)				
P	'N			_				
			License/Peri	miVMonitorin	g #			
*	'w							
1/4/1/4 1/4	Section Town	ship Range 🕅 E	Original Wel					
or Gov't Lot #		N TW	Village of Present Wel	-				
Well Street Address			Village of					
308 Oak Street				ress of Prese	of Owner			
Well City, Village or Town		Well ZIP Code	300 Sling		ant Owner			
Slinger		53068	City of Prese		le	State ZIP	^o Code	
Subdivision Name		Lot #	Slinger				3086	
Dennes For Dennes I Fore Consis	- hall theight half th	of Replacement Well	4. Pump, I	iner, Scree	en, Casing & Sealin	g Material		
Reason For Removal From Servic Borehole	e val ourdoe vver #	or Replacement wen	Dump and	d piping remo	aved?	Yes		
		Liner(s) re		Died :	Yes			
3. Well / Drillhole / Borehole		Data (anticidade antic				✓ Yes		
Monitoring Well	7/18/13	n Date (mm/dd/yyyy)	Screen re					
Water Well				ft in place?		Yes Ves		
Borehole / Drillhole	If a Well Construction please attach.	n Report is available,	Was casi	ng cut off bel	ow surface?	✓Yes		
Construction Type:			Did sealir	ng material ris	se to surface?	✓Yes		
		Dug		rial settle afte				
	Sandpoint)		If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source?					
Other (specify):			with water	from a know	in safe source?	Yes		
Formation Type:					ng Sealing Material			
Unconsolidated Formation	Bedroc	k	Conductor Pipe-Gravity					
Total Well Depth From Ground Su	rface (ft.) Casing Di	ameter (in.)	Bento	ned & Poured nite Chips)	Other (Explain	n):		
15	1		Sealing Mate					
Lower Drillhole Diameter (in.)	Casing De	epth (ft.)	Neat C	ement Grout		Clay-Sand Slu	urry (11 lb./gal. wt.)	
1	15		Sand-(Cement (Con	crete) Grout 🛛 🛛 B	Bentonite-Sar	nd Slurry " "	
Was well annular space grouted?	Yes		Concre			Bentonile Chi	ps	
If yes, to what depth (feet)?	Depth to Water	(feet)			Monitoring Well Boreho			
	Dupin to Mator	(1001)			Bentonit			
×				ar Bentonite		te - Sand Slu	Mix Ratio or	
5. Material Used To Fill Well / D	rillhole		From (ft.)	To (ft.)	No. Yards, Sacks S or Volume (circle	one)	Mud Weight	
			Surface					
Bentonite			Surface	15	0.20			
6. Comments								

7. Supervision of Work								
Name of Person or Firm Doing Filling & S Jordan Junion	Sealing Lice	License # Date of 7/30/13		Filling & Sealing (mm/dd/yyy 3	y) Date Received	Noted By		
Street or Route			1	Telephone Number	Comments			
1555 RiverCenter Dr.				(414) 944-6080				
City	State	ZIP Code	1	Signature of Person Doing	g Work	Date Signed		
Milwaukee	Wi	53212		Lordan	p	×		
					/			

Well / Drillhole / Borehole Filling & Sealing Page 1 of 2

Form 3300-005 (R 4/08)

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		R	toute to:					_		
Verification Only of Fill	and Seal		Drinking W	ater		Watershed/W	Vastewater	Remediati	ion/Redevelopment	
TW-17			Waste Man	agemei	nt 🗌	Other:				
1. Well Location Information	and the second sec				2. Facility	/ Owner In	formation			
	que Well # of	Hic	cap #	1.5255	Facility Nam					
Washington Remov	ed Well				Niphos					
Lattitude / Longitude (Degrees and	A Minutos) Mai	-	odo logo instru	uctions)	Facility ID (F	ID or PWS)				
Launde / Longitude (Degrees and		inou C	ode (see instru	ictions)						
	'N				License/Per	miVMonitorin	g #			
° ·	· `W			1 caral						
1/4/1/4 1/4	Section	Townsl	hip Range	ΠE	Original Well Village of					
or Gov't Lot #			N	W	Present Wel	-				
Well Street Address					Village of					
308 Oak Street						ess of Prese	ent Owner			
Well City, Village or Town	0		Well ZIP Code		300 Sling					
Slinger 53068				City of Prese	ent Owner		State ZI	IP Code		
Subdivision Name			Lot #	1	Slinger			WI 5	53086	
Reason For Removal From Servic	e WI Unique V	Nell #	of Replacemen	t Well	4. Pump, I	iner, Scree	en, Casing & Seal	ing Materia	d	
Borehole					Pump and	d piping remo	oved?		es 🗆 No 🗹 N/A	
3. Well / Drillhole / Borehole Information					Liner(s) re			□ _{Ye}		
	Original Constru	uction	Date (mm/dd/)	(vvv)	Screen re			✓Ye		
Monitoring Well	7/18/13		,	,,,,,		ft in place?		□ _{Ye}		
Water Well	If a Well Const	ruction	Report is avail	able.	-	ng cut off bel	ow surface?	✓Ye		
Borehole / Drillhole	please attach.						se to surface?	✓ _{Ye}		
Construction Type:						ial settle afte		ΠYe		
Drilled Driven (S	Sandpoint)		Dug		If yes, was hole retopped?					
Other (specify):		_			If bentonite chips were used, were they hydrated with water from a known safe source?					
Formation Type:							ng Sealing Material		S LINO LINA	
Unconsolidated Formation		edrock			Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Ground Su				_	Screened & Poured (Bentonite Chips) Other (Explain):					
15	1				Sealing Mate					
Lower Drillhole Diameter (in.)	Casi	ng De	pth (ft.)		- - -	ement Grout		Clay-Sand S	Slurry (11 lb./gal. wt.)	
1	15				Sand-O	Cement (Cond	crete) Grout	Bentonite-Sa	and Slurry " "	
Was well annular space grouted?	Yes	•		known		ete		Bentonite Cl	hips	
If yes, to what depth (feet)?		_			For Monitoring Wells and Monitoring Well Boreholes Only:					
in yes, to what depth (leet)?	Depth to V	Nater	(ieet)				Bento			
2					Granul	ar Bentonite		nite - Sand SI		
5. Material Used To Fill Well / D	rillhole				From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight	
					Surface					
Bentonite					Surface	15	0.20			
6. Comments										

ense #	D . (
	Date of Filling & Sealing (mm/dd/yyyy) 7/30/13	Date Received	Noted By
	Telephone Number (414) 944-6080	Comments	
ZIP Code 53212	Signature of Person Doing	Arock	Date Signed
	ZIP Code	7/30/13 Telephone Number (414) 944-6080 ZIP Code Signature of Person Doing	7/30/13 Telephone Number (414) 944-6080 ZIP Code Signature of Person Doing Work

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Image: Section Service Will Unique Well # of Removed Well Hicap # 2. Facility / Owner Information County Will Unique Well # of Removed Well Hicap # Former Niphos Coatings Inc. Latitude / Longitude (see instructions) N ODD Gramat Code Will Dob ODD Gramat Code Gramat Code Will Street Address N ODM Original Well Owner Well Street Address 308 and 310 Oax Street Subdivision Name Lot # Will Unique Well # of Replacement Well City of Present Owner State ZIP Code Subdivision Name Lot # Will Unique Well # of Replacement Well Well Construction Date (mm/dd/yyyy) State Site No No No Montoring Well Original Construction Report is available, please attach. Original Construction Report is available, please attach. Yes No N		Route to DNR Bureau:						
LW011 Location Information Place P intervent View Provided Provid	Verification Only of Fill and Seal							
County Will Unique Weil # Histop # Washingtm Removed Weil Facility Name Laitude / Longlude (see instructions) Formatic Code Screene Miphos County Will State N DDN Screene Screene Screene Will State ANE Screene Screene Screene Screene Screene Weil Street Address Will Unique Weil # of Replacement Weil Screene No	4 Wall Loootion Information	- Waste Manageme						
Washington Removed Well Former Alphas Inc. Laikude / Longiude (see Instructions) N Comma Code Method Code School Of Opense School Opense <td></td> <td>Hicap #</td> <td>Eacility Name</td>		Hicap #	Eacility Name					
Laituida / Longitude (see instructions) Pormat Code Method Method Code Method Method Metho	Removed Well		Former Nichos Coatings Inc.					
Laitude / Longlude (see instructions) N Permait Code Permit Code Permit Monitoring # Permit Monitoring Mell A Difference Permit Monitoring Mell A	Washington							
N UDM GCR002 W ODM GCR002 W Ortholo GCR002 Well Street Address Section Township BOB and SID OxX Street Well Street Address State SUddivision Name Vell ZiP Code State State State Suddivision Name Lot # Vell CiP, Village or Town Vell ZiP Code State State State Suddivision Name Lot # Suddivision Name Lot # Suddivison Name <td>Latitude / Longitude (see instructions) For</td> <td></td> <td></td>	Latitude / Longitude (see instructions) For							
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X /X SW X NE Section Township Range X E Original Well Owner 308 and 310 Oak Street Washington County Well City, Village or Town Well Zip Code Washington County Studivision Name Lot # Mailing Address or Pleaent Owner Hailing Address or Pleaent Owner Subdivision Name Lot # City of Present Owner State ZiP Code Subdivision Name Lot # City of Present Owner State ZiP Code Subdivision Name Lot # City of Present Owner Hailing Address or Pleaent Owner Yes No No State Lot # Original Construction Date (mmod/yyyy) Section Trons State ZiP Code No	w							
or Gevitui# 100 18 10 N W Well Street Address 310 Oak Street Well City, Village or Town Street Well ZIP Code Well ZIP Code Street Address S308L Contract Street Subdivision Name Lot # Cloty of Present Owner Street Subdivision Name Lot # Cloty of Present Owner Street Street Address Cloty of Present Owner Street Street Street Address Other (Instruction Report is available, Dignal Construction Take (middityyy) Cloty of Present Owner Yes No Xin Street Address Other (Ispecify): Hotons Dug Yes No Xin Water Weil Other (Ispecify): Hotons Dug Yes No Xin Montoring Weil Other (Ispecify): Hotons Betrock Yes No Xin Borehole / Drihole Driven (Sandpoint) Dug Yes No Xin No Xin Montoring Weil Other (Ispecify): Hotons Formation Type: Yes No Xin I Drihed Driven (Sandpoint) <t< td=""><td>the second se</td><td></td><td>Original Well Owner</td></t<>	the second se		Original Well Owner					
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Year UP Code Year 20 Code Year 20 Code Year 20 Code Subdivision Name Lot # City of Present Owner State ZIP Code Subdivision Name Lot # City of Present Owner State ZIP Code Subdivision Name Lot # City of Present Owner State ZIP Code Cass Clad XC State VBI / Dillinole / Borchole Information Pump and piping removed? Yes No No Xi State VBI Original Construction Date (mn/ddivyyy) City of Present Conver? Yes No No Xi Water Weil If a Well Construction Report is available. please atlach. Dug Was casing out of below surface? Yes No No <t< td=""><td></td><td></td><td></td></t<>								
Subdivision State Lif# Breason for Removal from Service Wi Unique Weil# of Replacement Weil State St								
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Water Weil If a Weil Construction Report is available, please attach. Casing left in place? Yes X No N N Borehole / Drillhole If a Weil Construction Report is available, please attach. Was casing cut off below surface? Yes No No N Construction Type: Drilled Driven (Sandpoint) Dug Did scaing material rise to surface? Yes No No No Modeling material rise to surface? Yes No No No No	Monitoring Well							
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Image: State Image: State <td< td=""><td>Lower Drillhole Diameter (in.) Cas</td><td>ing Depth (ft.)</td><td>Sealing Materials</td></td<>	Lower Drillhole Diameter (in.) Cas	ing Depth (ft.)	Sealing Materials					
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6. Comments Surface 15 18 SacKs 6. Comments TWGR Date of Filling & Sealing or Verification (mm/dd/yyyy) DNR Use Only Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification (mm/dd/yyyy) Date Received Noted By Street or Route 12075 Corporate Parkway - Suite 200 Telephone Number (LOR) Comments City State ZIP Code Signature of Person Doing Work - 1 Date Signed	NA	9.9	Granular Bentonite Bentonite - Sand Slurry					
Granular Bentonite Surface 15 18 SacKs 6. Comments TWGR DNR Use Only 7. Supervision of Work DNR Use Only Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By Street or Route 12075 Comporate Parkway - Suite 200 Telephone Number Comments City State ZIP Code Signature of Person Doing Work Date Signed	5 Material Used to Fill Well / Drillhole		From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or					
6. Comments TWGR 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Stantec Consulting Street or Route 12075 Corporate Parkway - Suite 200 City 20 State ZIP Code Signature of Person Doing Work 7/ Date Signed			volume (circle one) Nidd Weight					
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7. Supervision of Work DNR Use Only Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification (mm/dd/yyyy) 05/13/2021 Date Received Noted By Street or Route Noted Parkway - Suite 200 Telephone Number (608) 638 - 6278 Comments City State ZIP Code Signature of Person Doing Work - 1 Date Signed								
Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By Street or Route Consulting License # Date of Filling & Sealing or Verification Date Received Noted By 12075 Corporate Parkway - Suite 200 Telephone Number Comments City State ZIP Code Signature of Person Doing Work - / Date Signed								
Stantec Consulting (mm/dd/yyyy) 05/13/2021 Street or Route 12075 Corporate Parkway - Suite 200 (608) 628-6278 Comments City 20 State ZIP Code Signature of Person Doing Work -7 Date Signed								
Street or Route 12075 Corporate Parkway - Suite 200 (608) 628-6278 Comments City State ZIP Code Signature of Person Doing Work -7 Date Signed	<i>·</i> . <i>· · · · · · · · · ·</i>							
12075 Corporate Parkway - Suite 200 (608) 628-6278 City State ZIP Code Signature of Person Doing Work -7/ Date Signed		1	1-14-01					
City								
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Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

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Verification Only	of Fill and Se	al 🗌	e to DNR Bureau: Drinking Water Waste Manageme	Watershed/Wastewater Remediation/Redevelopment						
1. Well Location Infor	mation			2. Facility	/ Owner Infe	ormation				
County Washington	WI Unique Well # Removed Well	of Hicap	#		FID or PWS)	liphos Co	atings	Inc.		
Latitude / Longitude (see in	nstructions) N	Format Code	Method Code GPS008 SCR002 OTH001	20	mit/Monitoring					
14/14 SW 14 N or Gov't Lot #	JE Section 18	Township	Range K E		ashingto	n Count	4			
Well Street Address 308 and Well City, Village or Town Slinger Subdivision Name	8 310	We	treet 11 ZIP Code 53086	Mailing Add 43 City of Pres	lashing for iress of Presen B2 E. L sent Owner	U Owner Washingtor	State WI	ZIP Code 53095		
				W			and the second			
Reason for Removal from Case Close 3. Filled & Sealed We Monitoring Well	رمر II / Drillhole / B	orehole Infor	e (mm/dd/yyyy)	Pump an Liner(s) r Liner(s) p Screen r	Id piping removed? perforated? emoved?	n, Casing & Se ed?		Yes No N/A Yes No N/A		
Water Well	If a Well		port is available,		eft in place?					
Borehole / Drillhole	please at	,		ing cut off belo			Yes 🗌 No 🔀 N/A			
Construction Type:			Did seali	ng material rise	e to surface?	X	Yes 🗌 No 🔄 N/A			
Drilled	Driven (Sandpoint	lug	Did material settle after 24 hours?							
	-		uger	If ye	s, was hole ret	opped?		Yes 🗌 No 🔀 N/A		
	tioned c	nan n	<u> </u>			used, were they hy	/drated	Yes No N/A		
Formation Type:		_								
Unconsolidated Form	nation	Bedrock		Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped						
Total Well Depth From Gr	ound Surface (ft.)	Casing Diame	ter (in.)							
15.4		1 - in	ch		ened & Poured onite Chips)	Other (E	(plain):			
Lower Drillhole Diameter	(in.)	Casing Depth		Sealing Materials						
4- inche			9	Neat	Cement Grout	crete) Grout	Concrete			
Was well annular space gr	routed?	Yes 🔀 N	lo Unknown	For Monito	ring Wells and	Monitoring Well B	oreholes On	ly:		
If yes, to what depth (feet))? Dep	th to Water (fee			onite Chips ular Bentonite		itonite - Cen itonite - San			
I see a second sec	WAAL AL (Duillie -	1.		E	To (#)	No. Yards, Sack				
5. Material Used to F Granular	Bentonite	lie		From (ft.) Surface		Volume (cire	the second s	Mud Weight		
6. Comments					1					
TWIR							DND	e Orthu		
7. Supervision of Wo Name of Person or Firm D Stantec Cov	Doing Filling & Sea	ling License		illing & Seali	ng or Verification		DNR Us	Noted By		
Street or Route			-	elephone Nu	umber	Comments		1		
	orate Par	Kway - S	suite 200	(108) 1	28-62					
City of	orac jar	A CONTRACTOR OF A CONTRACTOR O	IP Code		of Person Doin		D	ate Signed		
Meguon	_	WI	53092		K	+ Key		5/13/2021		
U					/					

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Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

		Route	to DNR Bureau:				10.00		
Verification Only of	Fill and Sea		rinking Water	V	Watershed/Wa	astewater	Reme	diation/Redevelopment	
			Vaste Managemer	nt 🗌 C	Other:		100		
1. Well Location Information	tion			2. Facility /	Owner Info	ormation		Service and the service of the servi	
	Unique Well # a moved Well	of Hicap #		Facility Name	٨	1. her	Coating	Tec	
Washington	moveu wen			Facility ID (FII		ipnos	Coarrig	s TUC.	
Latitude / Longitude (see instru	uctions)	Format Code	Method Code		70698	280			
	N	DD	GPS008	License/Perm					
	w		SCR002	LICONSON CIT	in the find the g				
1/4 5W 1/4 NE	1	Township		Original Well	Owner				
14/14 SW 14 NE	18	10 N		THE CONTRACT CONTRACT	shinato	n Co	onty		
Well Street Address	10			Present Well	Owner	1			
308 and	310 0	Dak Sti	ret		shington		onty		
Well City, Village or Town	0.0		ZIP Code	Mailing Addre			, `CI		
Slinger		5	53086	43:		Vashin			
Subdivision Name		Lot #		City of Preser	0	1	State	ZIP Code	
				Wes			WI		
Reason for Removal from Ser	vice WI Unie	ue Well # of Re	eplacement Well		piping remov		& Sealing Ma	Yes No X N/A	
Case Closure				Liner(s) rer		eur			
3. Filled & Sealed Well /	Drillhole / Bo	rehole Inforn	nation	Liner(s) rea			Ļ		
Monitoring Well		nstruction Date		Screen ren					
Water Well	06	/11/3	7070	Casing left					
		onstruction Rep	ort is available,	-	g cut off below	w out oo?			
Borehole / Drillhole	please atta	ich.			g material rise				
Construction Type:				-	al settle after			Yes X No N/	
	en (Sandpoint)	Du	g	If yes, was hole retopped?					
X Other (specify): Ho	1000	stow h	tyger		e chips were i		hey hydrated		
Formation Type:				-	from a known			Yes No N/	
X Unconsolidated Formatic	on L	Bedrock		Required Me					
Total Well Depth From Ground	d Surface (ft.)	Casing Diameter	er (in.)		ctor Pipe-Grav	vity 📋 Co	nductor Pipe-Pu	mped	
15.4	1	1-inc	h	(Bentor	ed & Poured hite Chips)	Ott	ner (Explain):		
Lower Drillhole Diameter (in.)	2	Casing Depth (f	n.)	Sealing Mate	rials				
4- inches		14.9	7	Neat Co	ement Grout		Concre	te	
			·	Sand-C	Cement (Conc	rete) Grout	X Benton	ite Chips	
Was well annular space groute	ed?	Yes X No	Unknown	For Monitorin	ig Wells and	Monitoring V	Vell Boreholes O	nly:	
If yes, to what depth (feet)?	Dept	n to Water (feet)		Benton	ite Chips		Bentonite - Ce	ement Grout	
NA		10.1		X Granula	ar Bentonite		Bentonite - Sa	ind Slurry	
5. Material Used to Fill V	Vell / Drillhol	9		From (ft.)	To (ft.)	No. Yards	, Sacks Sealant (ne (circle one)	or Mix Ratio or Mud Weight	
the second se	ntonite			Surface	14.9		Sacks	Mad Weight	
Uranolal Der	TIONIC			Surruee	//	10	Jucity		
6. Comments									
TWBR							4		
						-	DNR	se Only	
7. Supervision of Work Name of Person or Firm Doin	a Fillina & Seali	ng License #	Date of F	illing & Sealing	or Verificatio	n Date Re		Noted By	
Stantec Consu			101212	YYY) 05/1	a finite set of the	and a second second second			
Street or Route)		1	elephone Num	nber	Comme	nts		
12075 Corpora	ate Park	way - Si	site 200	608) 62	18-627	18		and a state of	
City		State ZIF	Code		Person Doing			Date Signed	
Megoon		WE	53092		K	y he	4	5/13/2021	

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Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

5/13/2021

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

		Route to DNR Bureau:							
Verification Only o	of Fill and Seal	Drinking Water	Watershed/Wastewater Remediation/Redevelopment						
		Waste Managemer							
1. Well Location Inform			2. Facility / Owner Information						
	WI Unique Well # of Removed Well	Hicap #	Facility Name Former Niphos Coatings Inc.						
Washington	لا در مر ما م		Facility ID (FID or PWS)						
Latitude / Longitude (see ins	structions) Form	at Code Method Code	267069880						
	N		License/Permit/Monitoring #						
	w [DDM							
1/4/1/4 SW 1/4 N	E Section To	winship Range K E	Original Well Owner						
or Gov't Lot #			Washington County						
Well Street Address		0.1	Present Well Owner						
308 and	310 Oak	. Street	Washington County						
Well City, Village or Town		Well ZIP Code	Mailing Address of Present Owner						
Slinger		53086	432 E. Washington St.						
Subdivision Name		Lot #	City of Present Owner U State ZIP Code West Bend WI 53095						
			4. Pump, Liner, Screen, Casing & Sealing Material						
Reason for Removal from S		ell # of Replacement Well	Pump and piping removed? Yes No N//						
Case Closu			Liner(s) removed?						
3. Filled & Sealed Well		tion Date (mm/dd/yyyy)	Liner(s) perforated?						
Monitoring Well			Screen removed?						
Water Well		0/2020	Casing left in place?						
Borehole / Drillhole	If a Well Constru please attach.	iction Report is available,	Was casing cut off below surface?						
Construction Type:			Did sealing material rise to surface? Xes No N/A						
Drilled D	riven (Sandpoint)	Dug	Did material settle after 24 hours?						
	ollow Sten	Auger	If yes, was hole retopped?						
Formation Type:			If bentonite chips were used, were they hydrated with water from a known safe source?						
Vinconsolidated Forma		drock	Required Method of Placing Sealing Material						
Total Well Depth From Grou		g Diameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped						
Carlo march		- inch	Screened & Poured Other (Evaluin)						
15.4		and the second se	(Bentonite Chips)						
Lower Drillhole Diameter (in.) Casing Depth (ft)			Sealing Materials Neat Cement Grout Concrete						
4-inche	S	14.9							
Was well annular space grou	uted? Yes	No Unknown							
If yes, to what depth (feet)?			For Monitoring Wells and Monitoring Well Boreholes Only:						
	Deptilito								
NA		10.3	Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or						
5. Material Used to Fill	Well / Drillhole		From (ft.) To (ft.) No. Failes, Sacks Sealant of Mix Ratio of Mud Weight						
Granular Br	entonite		Surface 14.9 18 Sacks						
6. Comments									
TW9R			1						
7. Supervision of Wor	k	and the second	DNR Use Only						
Name of Person or Firm Do	oing Filling & Sealing	CAR FIN 2.1. UNASCH	Filling & Sealing or Verification Date Received Noted By						
	sulfing		(vyyy) 05/13/2021						
Street or Route	1		Telephone Number Comments						
	rate Parkwa		(608) 638-6278						
City	Sta	te ZIP Code	Signature of Person Doing Work / Date Signed						

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Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

Form 3300-005 (R 4/2015)

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Verification Only of		to DNR Bureau: Drinking Water	Watershed/Wastewater X Remediation/Redevelopm						
,		Waste Manageme	nt Other:						
1. Well Location Informat				2. Facility / Owner Information					
	Unique Well # moved Well	of Hicap #	2	Facility Name Former Niphos Coatings Inc.					
Washington _				Facility ID (FID or PWS)					
Latitude / Longitude (see instru	uctions)	Format Code	Method Code GPS008	267069880					
	N		SCR002	License/Permit/Monitoring #					
	W	DDM	ОТН001	Card and C					
¼/¼ Sw ¼ NE Section Township Range K E or Gov't Lot # 18 10 N ₩			Range X E						
Well Street Address		0		Present Well Owner					
308 and 310 Oak Street				Washington County					
Well City, Village or Town		Well	ZIP Code	Mailing Address of Present Owner 4.32 E. Washington St					
Slinger			53086						
Subdivision Name		Lot	#	City of Present Owner U State ZIP Code West Bind WI 53095					
				4 Dump Lines Serven Cooling & Sealing Material					
in the second			eplacement Well	Pump and piping removed?					
Case Closure				Liner(s) removed?					
3. Filled & Sealed Well / I		orehole Inforr		Liner(s) perforated?					
Monitoring Well				Screen removed?					
Water Well	06			Casing left in place?					
Borehole / Drillhole If a Well Constru			oort is available,	Was casing cut off below surface? Yes No XN/A					
Construction Type: Drilled Driven (Sandpoint) Dug Other (specify):				Did sealing material rise to surface?					
				Did material settle àfter 24 hours? ☐ Yes Xo ☐ N/A If yes, was hole retopped? Yes ☐ No Xo N/A					
V Unconsolidated Formation				Required Method of Placing Sealing Material					
Total Well Depth From Ground		Casing Diameter	er (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped					
15.4	after a strategy of the second s			Screened & Poured Other (Explain):					
Lower Drillhole Diameter (in.)	_	Casing Depth (and the second se	Sealing Materials					
11		14.9		Neat Cement Grout Concrete					
9-inches		11.	1	Sand-Cement (Concrete) Grout					
Was well annular space groute	d?	Yes 🕅 No	D Unknown						
If yes, to what depth (feet)? Depth to Water (feet))	Bentonite - Cement Grout					
NIA		10.0	0	Granular Bentonite Bentonite - Sand Slurry					
5. Material Used to Fill W	vell / Drillho			From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Volume (circle one) Mud Weight					
	tonite			Surface 14.9 \8 SacKs					
Uranular Der	Tionine								
6. Comments									
TWIOR									
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing		ing License #		Filling & Sealing or Verification Date Received Noted By					
Stantec Consu	llting			(1/1/1/2021					
Street or Route	1. 0.	. (1 200	Telephone Number Comments					
12075 Corpora	ate tar	way - J	vite 200	(608) 628-6278					

Signature of Person Doing Work

ZIP Code

53092

State

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Date Signed

5/13/2021

City

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Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

5/13/2021

Form 3300-005 (R 4/2015)

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	Route to DNR Burea	u:						
Verification Only of Fill and Sea	al Drinking Water	Watershed/Wastewater Remediation/Redevelopment						
	Waste Manager	ment Other:						
1. Well Location Information		2. Facility / Owner Information						
County WI Unique Well #	of Hicap #	Facility Name						
Washington Removed Well		Facility Name Former Niphos Coatings Inc. Facility ID (FID or PWS)						
Latitude / Longitude (see instructions)	Format Code Method Code	26.701.9880						
N		License/Permit/Monitoring #						
W		a served which is the Definition of the						
4/14 SW 14 NE Section	Township Range	Original Well Owner						
or Gov't Lot # 18		W Washington County						
Well Street Address		Present Well Owner						
200 1 210	Oak Street	Washington County						
308 and SIU Mell City, Village or Town	Well ZIP Code	Mailing Address of Present Owner						
Slinger	53086	432 E. Washington St.						
Subdivision Name	Lot #	City of Present Owner State ZIP Code						
		West Bend WI 53095						
Reason for Removal from Service WI Un	ique Well # of Replacement We	4. Pump, Liner, Screen, Casing & Sealing Material						
Case Closure		Pump and piping removed?						
3. Filled & Sealed Well / Drillhole / Be	orehole Information	Liner(s) removed?						
	construction Date (mm/dd/yyyy)	Liner(s) perforated?						
	0606/11/2020	Screen removed? Yes No N// Casing left in place? Yes No N// Was casing cut off below surface? Yes No N// Did sealing material rise to surface? Yes No N// Did material settle àfter 24 hours? Yes No N// If yes, was hole retopped? Yes No N//						
Water weil	Construction Report is available							
Borehole / Drillhole please at								
Construction Type:								
Drilled Driven (Sandpoint)) Dug							
Cother (specify): Hollow	stem Auger							
Formation Type:	0	If bentonite chips were used, were they hydrated with water from a known safe source?						
V Unconsolidated Formation	Bedrock	Required Method of Placing Sealing Material						
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped						
a definition the subtraction	1-inch	Screened & Poured (Bentonite Chips) Other (Explain):						
15.4								
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Materials Neat Cement Grout Concrete						
4-inches	14.9							
Was well annular space grouted?	Yes 🕅 No 🗌 Unknow	Sand-Cement (Concrete) Grout Sentonite Chips						
and the second sec		For Monitoring Wells and Monitoring Well Boreholes Only:						
and a second sec	th to Water (feet)	Bentonite Chips Bentonite - Cement Grout						
NA	10.1	Granular Bentonite Bentonite - Sand Slurry						
5. Material Used to Fill Well / Drillho	le	From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Volume (circle one) Mud Weight						
Granular Bentonite		Surface 14.9 18 Sacks						
6. Comments								
TWIR								
		DNR Use Only						
7. Supervision of Work Name of Person or Firm Doing Filling & Sea	ling License # Date of	of Filling & Sealing or Verification Date Received Noted By						
Stantec Consulting		1d/yyyy) 05/13/2021						
Street or Route		Telephone Number Comments						
12075 Corporate Par	Kway - Suite 200	8752-852 (802)						
City a	State ZIP Code	Signature of Person Doing Work / Date Signed						

State

wit

53092

Signature of Person Doing Work

Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

Form 3300-005 (R 4/2015)

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C DEPENDENT AND		Route to	DNR Bureau:						
Verification Only	I Dr	inking Water							
_		aste Manageme							
1. Well Location Inform	mation			2. Facility	6	er Inform	nation		
County	WI Unique Well # (Removed Well	of Hicap #		Facility Nar	ne	AL	hos Co	Hones	T
Washington		_	_	Facility ID (nos co	arrig's	-+
Latitude / Longitude (see in	structions)	Format Code	Method Code GPS008	20	0706	988	30		
	N	DD	SCR002	License/Pe					
	w	DDM	Отноо1						
1/4 SW) 1/4 N	E Section	Township	Range K E	Original We	ell Owner		<u> </u>		
or Gov't Lot #	18	10 N		1 W	Jashin	aton	Counti	4	
Well Street Address	10	1.0 11		Present We	ell Owner	9			
2.0	310 (Dak Str	ret	h	Jashini	aton	Count	1	
308 and Well City, Village or Town	3 310 4		IP Code	Mailing Add				C	
Slinger		(A) (A)	3086	43	32 E	. Wa	shington	st.	
Subdivision Name		Lot #	30004	City of Pres	sent Owne	er	9	State	ZIP Code
Suburnsion reame		Lotin		W	est .	Bend		WI	53095
Reason for Removal from	Service WI Uni	que Well # of Rep	lacement Well	4. Pump,	Liner, S	Screen,	Casing & Se	aling Mate	
Case Closu			2040	Pump ar	nd piping I	removed?			Yes 🗌 No 🔀 N/A
3. Filled & Sealed Wel		rehole Inform	ation	Liner(s)	removed?	?			Yes No N/A
		nstruction Date (Liner(s)	perforated	d?			Yes No N/A
Monitoring Well	177	1017	013	Screen r	removed?				Yes 🛛 No 🗌 N/A
Water Well		1.01.0	v	Casing I	eft in plac	e?			Yes 🛛 No 🗌 N/A
Borehole / Drillhole If a Well Construction Report is available, please attach.				Was casing cut off below surface? Yes No X N/A					
Construction Type:		-		Did sealing material rise to surface?					
The rest of the state of the second	Driven (Sandpoint)	Dug		Did material settle after 24 hours?					
	Direct Pu	·	- mail - mail	If yes, was hole retopped?					
	Areci ru	Sh Oco	proor				d, were they hy	vdrated X	Yes No N/A
Formation Type:	-			-	_		ife source?		
Unconsolidated Form	ation	Bedrock					ealing Materia		
Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)				Conductor Pipe-Gravity					
15 1-inch			Screened & Poured Other (Explain):						
Lower Drillhole Diameter (i	in.)	Casing Depth (ft.)	Sealing Ma	aterials				
2		15		Neat	Cement (Grout		Concrete	
2-inche	5	.2			l-Cement	(Concrete	e) Grout	Bentonite	Chips
Was well annular space gro	outed?	Yes 🗙 No	Unknown	For Monito	oring Wells	s and Mor	nitoring Well Bo	oreholes Only	y :
If yes, to what depth (feet)	? Dept	to Water (feet)			onite Chip			tonite - Cem	
NIA		10.5		Gran	ular Bente	onite	Ben	tonite - Sand	i Slurry
5. Material Used to Fi				From (ft.)	-	L NL	o Yards, Sack	s Sealant or	Mix Ratio or
	and the second s						Volume (circ		Mud Weight
Granular B	bentonite			Surface	15		18 Sacl	5	
				-	+	_			
0.0									
6. Comments									
TWIZ						-			
7. Supervision of Wo	rk							DNR Use	
Name of Person or Firm D	oing Filling & Seali	ng License #		illing & Seali			Date Received	l.	Noted By
	sulting			yyy) OS	- 1 -	160			
Street or Route)	~	1	elephone N	umber		Comments		

Suite 200 (608) 628-

Signature of Person

ZIP Code

53092

State

WI

6278

Date Signed

5/13/2021

Corporate Parkway

12075

19000

City

Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

Form 3300-005 (R 4/2015)

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		Route	to DNR Bureau:	5					
Verification Only of Fill and Seal			Drinking Water Waste Manageme	Watershed/Wastewater Remediation/Redevelopment					
A AND ILL			Waste Manageme	2. Facility / Owner Information					
1. Well Location Infor County	WI Unique Well #	t of Hicap #	1	Facility Name					
	Removed Well			Former Niphos Coatings Inc.					
Washington				Facility ID (FID or PWS)					
Latitude / Longitude (see in	nstructions)	Format Code	Method Code	267069880					
	N		GPS008	License/Permit/Monitoring #					
			SCR002	License/Permit/Montoring #					
		A lange and the second second		Original Well Owner					
1/4 SW 1/4 N	E Section		Range K E						
or Gov't Lot # 18 10 N W				Present Well Owner					
Well Street Address			L						
308 and	a 310	Oak St	ret	Washington County					
Well City, Village or Town			I ZIP Code	Mailing Address of Present Owner 432 E. Washington St.					
Slinger			53086						
Subdivision Name		Lot	#						
Reason for Removal from	Service WI U	nique Well # of R	eplacement Well	4. Pump, Liner, Screen, Casing & Sealing Material					
Case Close	sre			Pump and piping removed?					
3. Filled & Sealed We	ll / Drillhole / B	orehole Infor	mation	Liner(s) removed?					
Monitoring Well		Construction Date		Liner(s) perforated?					
	a	0/10/2	man	Screen removed?					
Water Well		Construction Re		Casing left in place?					
Borehole / Drillhole	please a		port is available,	Was casing cut off below surface?					
Construction Type:		-		Did sealing material rise to surface?					
CARLES COLORISE	Driven (Sandpoin		ug	Did material settle after 24 hours?					
Differ (specify): Hollow Stem Auger				If yes, was hole retopped?					
		J		If bentonite chips were used, were they hydrated with water from a known safe source?					
Formation Type:									
Unconsolidated Form		Bedrock		Required Method of Placing Sealing Material					
Total Well Depth From Gr	ound Surface (ft.)	Casing Diamet	ter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured (Bentonite Chips) Other (Explain):					
15.3		1 - inc	ch						
Lower Drillhole Diameter (in.)	Casing Depth	(ft.)	Sealing Materials					
			0	Neat Cement Grout Concrete					
4-inches 14.8				Sand-Cement (Concrete) Grout					
Was well annular space gr	outed?	Yes 🗙 N	o 🗌 Unknown						
If yes, to what depth (feet)	2 De	oth to Water (fee	0	Bentonite Chips Bentonite - Cement Grout					
NIA		10.0							
The second se			-	No Vorde Seake Sealast or Mix Patio or					
5. Material Used to Fi	ill Well / Drillho	ole		From (ft.) To (ft.) Volume (circle one) Mud Weight					
Granular B	Sentonite			Surface 14.8 18 Sacks					
Crement L									
6. Comments									
TWIJR									
the second se				DUD Use Oaks					
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Fi				ling & Sealing or Verification Date Received Noted By					
		aing License 7		/yyyy) OS(13/2021					
	nsulting			Telephone Number Comments					
Street or Route	L D	k (vite 200	(608) 628-6278					
the second	orate Par								
City M		and the second sec	P Code	Signature of Person Doing Work June Signed					
11 leguon		WI	53092	Mut /ung 5/15/2021					
0									

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

			R	<u> </u>	o DNR Bureau:		Dedevelopment		
Verification Only of Fill and Seal					inking Water		ater X Remediation/Redevelopment		
					aste Managemei		_		
1. Well Location Infor		ue Well # o	6 L.B.			2. Facility / Owner Information Facility Name			
Washington	Removed			Hicap #		Former Niphos Coatings I	-nc .		
U.				ado I	Method Code	Facility ID (FID or PWS)			
Latitude / Longitude (see in	nstructions		Format Co		GPS008	267069880			
		N W		1	SCR002	License/Permit/Monitoring #			
1/4 (1.) 1/4 N	JE	Section	Towns	1.14	Range K E	Original Well Owner			
1/4 SW 1/4 N or Gov't Lot #	1E	18	10	N		Washington County			
Well Street Address		10	1.0	IN		Present Well Owner			
308 and	4 3	ID C)aK	Str	ret	Washington County			
Well City, Village or Town					ZIP Code	Mailing Address of Present Owner 432 E. Washington St.			
Slinger	•			5	3086		Code		
Subdivision Name Lot #					3095				
			_				3075		
Reason for Removal from	Service	WI Uniq	ue Well #	of Re	placement Well	4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes	No N/A		
Case Close						Liner(s) removed?			
3. Filled & Sealed We	ll / Drilth	iole / Bor	ehole In	nform	ation	Liner(s) perforated?	No N/A		
Monitoring Well	0		struction	Date (mm/dd/yyyy)				
Water Well		02	123	120	016		No N/A		
Borehole / Drillhole		f a Well Co blease atta		n Repo	ort is available,	Was casing cut off below surface?			
Construction Type:		Sibuob atta	-	-		Did sealing material rise to surface?	No N/A		
Contraction of the local	Driven (Sa	andnoint)	ŕ	Dug		Did material settle àfter 24 hours?	🗙 No 🗌 N/A		
	Direc		6 6	CODY		If yes, was hole retopped?	No N/A		
Formation Type:	21100	103		-p	U.L.	If bentonite chips were used, were they hydrated with water from a known safe source?	∏No ∏N/A		
	nation	Í.	Bedrock	Ŀ		Required Method of Placing Sealing Material			
Unconsolidated Form			1	_	N= Y	Conductor Pipe-Gravity Conductor Pipe-Pumped			
Total Well Depth From Gr	ound Sun	ace (n.)	Casing Dia						
15				incl	and the second sec	(Bentonite Chips)			
Lower Drillhole Diameter ((in.)	C	Casing De)	Sealing Materials			
2-inch	es		19	S		Neat Cement Grout			
Was well annular space gr	outod?		Yes D	No 🕅		Sand-Cement (Concrete) Grout X Bentonite Chip	s		
				VINO		For Monitoring Wells and Monitoring Well Boreholes Only:			
If yes, to what depth (feet))?	Depth	to Water			Bentonite Chips Bentonite - Cement G			
NA			10	.4		Granular Bentonite Bentonite - Sand Sluri			
5. Material Used to Fi	ill Well /	Drillhole				From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight		
	Bentor					Surface 15 18 Sacks	and neerous		
Oranolai	JOI TO	inc							
				_					
6. Comments									
TW14									
7. Supervision of Wo	ork		-			DNR Use Onl	У		
Name of Person or Firm	Doing Fillin	ng & Sealin	g Licer	nse #		Iling & Sealing or Verification Date Received Note			
Stanter Cor	sultin	ng			(mm/dd/y	WW) 05/13/2021			
Street or Route		5		C		elephone Number			
12075 Corp.	orate	Park	way			608) 628-6278			
City			State		Code	Signature of Person Doing Work Date Signature			
Meguon			WI	-	53092	Fut rey 51	13/2021		
0			1.						

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

Verification Only	of Fill a	nd Seal		to DNR Bureau: Irinking Water /aste Manageme	nt Oth	atershed/Was	, , , , , , , , , , , , , , , , , , ,	Remedi	ation/Redevelopment
1. Well Location Infor	mation				2. Facility / O	wner Info	rmation	_	
Washington	WI Uniqu Removed	e Well # of I Well	Hicap #		Facility Name	er N	iphos Coo	Hings	Inc.
Latitude / Longitude (see in	structions) Fo N W	rmat Code	Method Code GPS008 SCR002	Facility ID (FID o 267 License/Permit/I	0698		-	
1/4/1/4 Sw 1/4 N or Gov't Lot #	IE	Section 18	Township	Range K E	Original Well Ov	wher	· County		
Well Street Address		10	IO N		Present Well Ow			-	
308 and	3 31	DO		ret	Mailing Address	hington	County		
Well City, Village or Town				ZIP Code	432 City of Present	E. L	Jashington	S 1 .	ZIP Code
Subdivision Name			Lot #		West	Ben		WI	53095
Reason for Removal from	Service	WI Unique	e Well # of Re	placement Well			n, Casing & Sea		The Content
Case Close	sre				Pump and pip Liner(s) remo		ia ?		Yes No N/A Yes No N/A
3. Filled & Sealed We					Liner(s) rend				
X Monitoring Well	0			(mm/dd/yyyy)	Screen remo			H	Yes X No N/A
Water Well		06/	10/2	010	Casing left in			H	Yes No N/A
Borehole / Drillhole		a Well Cons lease attach		ort is available,	Was casing o		surface?		
Construction Type:			τ.		Did sealing m			M	Yes No N/A
	Driven (Sa	undpoint) Ste	m Au	الا		as hole retop	oped?		Yes No N/A Yes No N/A
Formation Type:	0						sed, were they hyd safe source?		Yes No N/A
X Unconsolidated Form	nation		Bedrock		Required Metho	od of Placing	Sealing Material		
Total Well Depth From Gro		ace (ft.) Ca	ising Diamete	19.12	Screened	or Pipe-Gravi	ity Conductor	card -	bed
Lower Drillhole Diameter (in)	0	ising Depth (f		Sealing Materia				
4- inch		0.0			Neat Cerr	nent Grout] Concrete	
Was well annular space gr	outed?		es 🕅 No	Unknown		ment (Concr	, 2	Bentonite	·
							Ionitoring Well Bor		
If yes, to what depth (feet))?	Depth to	Water (feet)		Bentonite			onite - Cem onite - Sano	
5. Material Used to Fi	ill Well /	Drillhole	1014		From (ft.)	To (ft.)	No Yards, Sacks	Sealant or	Mix Ratio or
	Benton				Surface	16	Volume (circle		Mud Weight
		-							
6. Comments				-					
TWISR	>								
7. Supervision of Wo	ork							DNR Use	
Name of Person or Firm I	Doing Fillin	-	License #		illing & Sealing o		Date Received		Noted By
Street or Route		5	. (1	elephone Numbe	er	Comments		
12075 Lovp	orate	Parku			608) 628			10	ato Signed
City Megoon				20042	Signature of Pe	erson Doing	+ Key	Di	ate Signed 5/13/2021
0						-			

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

	Route to DM	NR Bureau:
Verification Only of Fill and	a Sear	ng Water Watershed/Wastewater Remediation/Redevelopment
	Waste	
1. Well Location Information County WI Unique V	Well # of Hicap #	2. Facility / Owner Information Facility Name
WI Unique N Washington		Former Niphos Coatings Inc.
Latitude / Longitude (see instructions)	Format Code Met	Facility ID (FID or PWS)
		Ind Code June 100 GPS008 June 100 SCR002 License/Permit/Monitoring # OTH001 OTH001
1/4 (1.) 1/4 NIE Se		nge K E Original Well Owner
JW NE	18 10 N	Washington County
Well Street Address	. 0	
308 and 310) Oak Street	
Well City, Village or Town		Code Mailing Address of Present Owner 086 432 E. Washington St.
Subdivision Name	Lot #	City of Present Owner State ZIP Code
Subdivision Hame	Lot in	West Bund WI 53095
Reason for Removal from Service	WI Unique Well # of Replace	4 Dunna Lines Serson Chaing & Souling Material
	wi Unique weil # ur Replace	Pump and piping removed? Yes Yes No XN/A
Case Closure	/ Developing information	Liner(s) removed?
3. Filled & Sealed Well / Drillhol	e / Borenole Informatio	(dd/uppy) Liner(s) perforated? Yes No N/A
Monitoring Well	mar construction Date (mm/	Screen removed?
Water Well	02/25/201	Casing left in place?
lfa lfa	Well Construction Report is	available
Borehole / Drillhole plea	ase attach.	Was casing cut off below surface?
Construction Type:	5	Did sealing material rise to surface?
Drilled Driven (Sand	ipoint) Dug	Did material settle åfter 24 hours?
V Other (specify): Direct	Rish Geoprab	If yes, was hole retopped?
Formation Type:		If bentonite chips were used, were they hydrated
Unconsolidated Formation	Bedrock	Required Method of Placing Sealing Material
Total Well Depth From Ground Surface	e (ft.) Casing Diameter (in.)	
15	1-inch	Screened & Poured Other (Explain):
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Materials
-	15	Neat Cement Grout Concrete
2-inches	10	Sand-Cement (Concrete) Grout Stentonite Chips
Was well annular space grouted?	Yes X No	Unknown For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)?	Depth to Water (feet)	Bentonite Chips Bentonite - Cement Grout
NA	9.8	Granular Bentonite Bentonite - Sand Slurry
5. Material Used to Fill Well / Dr	illhole	From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Volume (circle one) Mud Weight
Granular Bentonit	e	Surface 15 18 Sacks
6. Comments		
TWIL		
7. Supervision of Work		DNR Use Only
	Soaling It iconse #	Date of Filling & Sealing or Verification Date Received Noted By

7. Supervision of work					N USE Only
Name of Person or Firm Doing Filling & Sealing Stantec Consulting	License #		lling & Sealing or Verification (yy) $O5(13/2021)$	Date Received	Noted By
Street or Route 12075 Corporate Parku	ay - Suite	2 200 (608) 628-6278	2 million and a second se	
City Meguon	State ZIP Coo	1092	Signature of Person Doing P	Pork Key	Date Signed 5/13/2021
0					

n

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

Verification Only of Fill a	and Sea		to DNR Bureau: Drinking Water	<u>v</u>	Vatershed/Wa	stewater	Remed	iation/Redevelopment
			Waste Manageme	nt 🗌 C	other:		-	
1. Well Location Information				2. Facility /	Owner Info	rmation		
County WI Uniq	ue Well # c	of Hicap #		Facility Name	A 1	1. 1. 1.	Hinas	Tac
Washington Remove	ed Well	14 A 1				iphos Co	arings	TUC.
	1	Format Code	Method Code	Facility ID (FII		0	•	
Latitude / Longitude (see instruction		Service Contraction	GPS008		70698			
	N	DD	SCR002	License/Perm	it/Monitoring #	ŧ		
	W	DDM	ОТН001					
41% SW 14 NE	Section	Township	Range K E	Original Well	Owner	C .		
or Gov't Lot #	18	10 N			shington	n Counti	1	
Well Street Address	1.0		·	Present Well	Owner 9	1		
	10 0	Dak St	reet		shington		1	
Well City, Village or Town			I ZIP Code	Mailing Addre			' CI	
Slinger			53086	43:		Jashington	St.	
Subdivision Name		Lot		City of Preser		- 0	State	ZIP Code
				Wes			WI	53095
Reason for Removal from Service	WILLIni	ue Well # of R	eplacement Well	4. Pump, Li	iner, Scree	n, Casing & Se	aling Mat	erial
	WI ON	too troit in of IX	opicioni in trail	Pump and	piping remove	ed?	-	Yes No N/A
3. Filled & Sealed Well / Drill	hole / Be	rehole Infor	mation	Liner(s) rer	moved?			Yes No X N/A
3. Filled & Sealed Well / Drill	Original Co	nstruction Date	(mm/dd/vvvv)	Liner(s) pe	rforated?			Yes No N/A
X Monitoring Well			-	Screen ren	noved?			Yes 🛛 No 🗌 N/A
Water Well	06		1050	Casing left	in place?			Yes No N/A
	-		port is available,	Was casin	g cut off belov	v surface?		Yes No X N/A
	please atta	ich.		-	a material rise		Ā	Yes No N/A
Construction Type:					al settle after		Ē	Yes 🛛 No 🗌 N/A
	Sandpoint)		ug		was hole reto			Yes No N/A
X Other (specify): Holla	ow z	tem A	uger	If bentonite	e chips were u	used, were they hy	drated	
Formation Type:				with water	from a known	n safe source?	×	Yes No N/A
X Unconsolidated Formation		Bedrock		Required Me	thod of Placin	g Sealing Materia	1	
Total Well Depth From Ground Sur	face (ft.)	Casing Diamet	ter (in.)	Conduc	ctor Pipe-Grav	vity Conducto	or Pipe-Pun	nped
15.4	• •	1-inc	· lo	X Screen	ed & Poured	Other (E)	kplain):	
		Casing Depth		Sealing Mate	nite Chips)			
Lower Drillhole Diameter (in.)					ement Grout	- X	Concret	e
4-inches		14.	7			and the second second		
Was well annular space grouted?		Yes 🕅 N			Cement (Conc			te Chips
				For Monitori		Monitoring Well B		
If yes, to what depth (feet)?	Dept	h to Water (fee	t)	Benton	ite Chips	Ber	ntonite - Cer	ment Grout
NIA	- 1	10.3		X Granul	ar Bentonite		ntonite - Sa	
5. Material Used to Fill Well		a .		From (ft)	To (ft.)	No Yards, Sack	s Sealant c	or Mix Ratio or Mud Weight
the second se				Surface	14.9	Volume (cir		Nicie Weight
Granular Bento	mite			Surface	1 11 1	10 Juc	5	
				-				-
	-		-	-				
6. Comments								
TWITR							0	A contractor
7. Supervision of Work			and the second second				DNR Us	
Name of Person or Firm Doing Fill	ling & Seal	ing License	# Date of	Filling & Sealing	g or Verificatio	on Date Receive	d	Noted By
Stantec Consulti			(mm/dd/	VYYY) 05/1	3/2021			
Street or Route)			Telephone Nun	nber	Comments		
12075 Corporate	- Parl	way - S	wite 200	(608) 6:	18-62	18		
City		10 million and 10 mil	IP Code	Signature of	Person Doin	Tork 7/		Date Signed
Negroon		WT	53092		K	y hey		5/13/2021

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

.

	Route to DNR Bureau:				
Verification Only of Fill and Seal	Drinking Water	Watershed/Waste	ewater 🛛 🕅	Remediati	on/Redevelopment
	Waste Managemer	nt Other:			
1. Well Location Information		2. Facility / Owner Inform	nation		
County WI Unique Well # of	Hicap #	Facility Name	hos Coal	inas	Tac
Washington Removed Well			nos con		
0	at Code Method Code	Facility ID (FID or PWS)	20		
N	DD GPS008	26706988	50		
	SCR002	License/Permit/Monitoring #			
W [Original Well Owner			
JU NE	ownship Range E	Washington	County		
or Gov't Lot # 18	10 N $\Box \text{ W}$	Present Well Owner	Court		
Well Street Address	K Street	Washington	Caraba		
308 and 310 Oal		Mailing Address of Present Ov	wner		
Well City, Village or Town	Well ZIP Code		shington	St.	
Slinger	53086	City of Present Owner	3		ZIP Code
Subdivision Name	Lot #	West Bend		WI	53095
P. G. Derevel free Desites (human set)	Well # of Replacement Well	4. Pump, Liner, Screen,	Casing & Seal	10 -	al
	ven # or replacement wen	Pump and piping removed?			es 🗌 No 🔀 N/A
3. Filled & Sealed Well / Drillhole / Boreho	ole Information	Liner(s) removed?		Y	es No X N/A
Original Constru	action Date (mm/dd/yyyy)	Liner(s) perforated?		Y	es No N/A
X Monitoring Well	13/2016	Screen removed?		<u> </u>	es 🛛 No 🗌 N/A
Water Well		Casing left in place?		Y	es 🛛 No 🗌 N/A
Borehole / Drillhole If a Well Constr please attach	ruction Report is available,	Was casing cut off below s	urface?	Y	es 🗌 No 🔀 N/A
Construction Type:		Did sealing material rise to	surface?	×Μ	es 🗌 No 🛄 N/A
Drilled Driven (Sandpoint)	Dug	Did material settle after 24	hours?	Υ	es 🕅 No 🗌 N/A
X Other (specify): Direct Push		If yes, was hole retopp	ed?	ΠY	es 🗌 No 🔀 N/A
Formation Type:		 If bentonite chips were use with water from a known sa 		ated XY	es No N/A
	edrock	Required Method of Placing S			
		Conductor Pipe-Gravity		Pipe-Pumpe	d
Total Well Depth From Ground Surface (ft.) Casi	ing Diameter (in.)	Screened & Poured (Bentonite Chips)	Other (Expl		
16	-inch	(Bonterine emper		anny	
Lower Drillhole Diameter (in.) Cas	ing Depth (ft.)	Sealing Materials		Occasion	
2-inches	14	Neat Cement Grout	57	Concrete	.
		Sand-Cement (Concret	6.0	Bentonite (
Was well annular space grouted?		For Monitoring Wells and Mo			
	Water (feet)	Bentonite Chips	Bento	nite - Ceme	nt Grout
NA	0.3	Granular Bentonite		nite - Sand	
5. Material Used to Fill Well / Drillhole		From (ft.) To (ft.)	lo. Yards, Sacks S Volume (circle		Mix Ratio or Mud Weight
			18 Sack		
Granular Bentonite			10 04414		
6. Comments		d and the second s			
TW18			L.	DNR Use	Only
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing	License # Date of F	Filling & Sealing or Verification	Date Received		Noted By
Stantec Consulting		WWW 05/13/2021	and the second second		
Street or Route		Telephone Number	Comments		
12075 Corporate Parkus	ay - Suite 200	(608) 628-6278			and the second
	tate ZIP Code	Signature of Person Doing	Pork 1/	Dat	e Signed
	NI 53092	Fine	, Key		5/13/2021
					Contraction of

Well / Drillhole / Borehole Filling & Sealing Report

Page 1 of 2

Form 3300-005 (R 4/2015)

	Route to DNR Bureau:	Watershed/Wastewater
Verification Only of Fill and Sea	Drinking Water	A
1. Well Location Information		2. Facility / Owner Information
County WI Unique Well # d	of Hicap #	Facility Name
Washington Removed Well	S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Former Niphos Coatings Inc.
		Facility ID (FID or PWS)
Latitude / Longitude (see instructions)	Format Code Method Code	267069880
N		License/Permit/Monitoring #
W	DDM OTH001	
1/1 SW 1/4 NE Section	Township Range K E	Original Well Owner
or Gov'l Lol# 18		Washington County
Well Street Address		Present Well Owner
2.0 1 210 1	Dak Street	Washington County
308 and SID C Well City, Village or Town	Well ZIP Code	Mailing Address of Present Owner
Slinger	53086	432 E. Washington St.
Subdivision Name	Lot #	City of Present Owner State ZIP Code
Subdivision Name	Lot #	West Bend WI 53095
Reason for Removal from Service WI Unio	que Well # of Replacement Well	4. Pump, Liner, Screen, Casing & Sealing Material
Case Closure	de wei # of Replacement wei	Pump and piping removed?
3. Filled & Sealed Well / Drillhole / Bo	rehale information	Liner(s) removed?
3. Filled & Sealed Weil / Drilinole / Bo	Instruction Date (mm/dd/yyyy)	Liner(s) perforated?
X Monitoring Well		Screen removed?
Water Well	123/2016	Casing left in place?
Borehole / Drillhole f a Well Co please atta	onstruction Report is available, ach	Was casing cut off below surface?
Construction Type:		Did sealing material rise to surface?
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?
0.10	ush Geoprobe	If yes, was hole retopped?
		If bentonite chips were used, were they hydrated with water from a known safe source?
Formation Type:		
Unconsolidated Formation	Bedrock	Required Method of Placing Sealing Material
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped
16	1-inch	Screened & Poured Other (Explain):
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Materials
2-inches	14	Neat Cement Grout Concrete
d - Meves		Sand-Cement (Concrete) Grout X Bentonite Chips
Was well annular space grouted?	Yes 🔀 No 🗌 Unknown	For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)? Depth	h to Water (feet)	Bentonite Chips Bentonite - Cement Grout
NIA	10.5	Granular Bentonite
5. Material Used to Fill Well / Drillhold	9	From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Mud Weight
Granular Bentonite		Surface 14 18 SacKs
6. Comments		
TW19		the second s
7. Supervision of Work		DNR Use Only
Name of Person or Firm Doing Filling & Seali		illing & Sealing or Verification Date Received Noted By
Stantec Consulting		yyy) 05/13/2021
Street or Route		elephone Number Comments
		608) 628-6278
City	State ZIP Code	Signature of Person Doing Work Date Signed
Meguon	WI 53092	Kur Key 5/13/2021

ATTACHMENT F

SOURCE LEGAL DOCUMENTS

Table of Contents

Title	Status	Explanation (if applicable)
F.1 Deed	Attached	
F.2 Certified Survey Map	Attached	
F.3 Verification of Zoning	Attached	
F.4 Signed Statement	Attached	

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT F.1

DEED

CERTIFIED JUDGMENT

Document Number

Document Title

In the Matter of the Foreclosure of List of Tax Liens for 2012 and Prior Years Taxes by Washington County -2015-1; Parcels 1-3

Washington County Case No. 15-GF-651



RECORDED December 22, 2015 9:40 AM SHARON A MARTIN REGISTER OF DEEDS WASHINGTON COUNTY, WI Recording Fee Paid: \$30.00

Recording Area Name and Return Address Kimberly A. Nass, County Attorney 432 E. Washington St., Ste. 3029 West Bend, WI 53095

p

V5-0081 T1-0681004 T8-0111-00G Parcel Identification Numbers (PIN)

Document drafted by Kimberly A. Nass, County Attorney, 432 E. Washington St., Ste. 3029, West Bend, WI 53095

CIRCUIT COURT

WASHINGTON COUNTY

IN THE MATTER OF THE FORECLOSURE OF LIST OF TAX LIENS FOR 2012 AND PRIOR YEARS TAXES BY WASHINGTON COUNTY

Case No. 15-GF-651

2015-1; Parcels 1-3

11 12-1-

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JUDGMENT AS TO SUBJECT PROPERTIES LOCATED AT 4350 STATE HIGHWAY 28W, KEWASKUM, WI 53040 308-310 OAK STREET, SLINGER, WI 53086 6573 CROOKED ROAD, HARTFORD, WI 53027

This matter having come before the court by the filing of Notice of Commencement of Proceeding *In Rem* to Foreclose Tax Liens by Washington County and Petition and Motion before the Honorable Andrew T. Gonring presiding in Branch IV of the Washington County Circuit Court, on December 18, 2015 at 9:30 a.m.

Kimberly A. Nass, Attorney for Washington County, and Attorney Julie A. Maule, Guardian *ad Litem*, representing known and unknown interests of all those who may have an interest in the Subject Properties located at 4350 State Highway 28W, Kewaskum, WI 53040, 308-310 Oak Street, Slinger, WI 53086 and 6573 Crooked Road, Hartford, WI 53027.

THE COURT HEREBY FINDS:

1. The above-entitled action for foreclosure of tax liens by proceeding *in rem* pursuant to the provisions of §75.521, Wis. Stats., and it appearing by the adoption of §4.24 of the Washington County Code of Ordinances, the Washington County Board of Supervisors has elected to proceed under the provisions of §75.521, Wis. Stats., in relation to the enforcement and collection of tax liens as to the above-noted parcels; and

2. A list of the parcels of property affected by the unpaid tax liens for 2012 and prior years as shown on the delinquent tax rolls of the Office of the County Treasurer of Washington County was filed in the Office of the Clerk of Circuit for Washington County on the 26th day of August, 2015, listing the parcels located at 4350 State Highway 28W, Kewaskum, WI 53040; 308-310 Oak Street, Slinger, WI 53086; and 6573 Crooked Road, Hartford, WI 53027; and

1

3. By Affidavit of Jane C. Merten, County Treasurer, on file herein, she has posted a true and correct copy of the list of tax liens in the Office of the County Treasurer of Washington County on August 28, 2015, and had same continually posted until December 18, 2015; and

4. By the Affidavit of Jane Merten, County Treasurer, on file herein, she mailed by certified mail return receipt requested on September 10, 2015, to the last known post office address of each of the last known owner or owners, and the mortgagee or mortgagees of record in the Office of the Register of Deeds of Washington County, Wisconsin, as shown in the list of tax liens mentioned in the caption hereof, a copy of the Petition herein and all of the list of tax liens as to include the description of the particular parcel in which each owner or mortgagee held any interest of record; except as to those owners and mortgagees of record for whom no post office address could be ascertained after using due diligence for that purpose; and

5. By the Affidavit of Jane C. Merten, County Treasurer of Washington County, Wisconsin, and Marcia C. Aldy, Billing Coordinator of the printers of the Daily News, on file herein, said list of tax liens, (including the Petition for Judgment being a part thereof) together with the notice in the form required, by and pursuant to the terms of §75.521(6), Wis. Stats., was published in the English language in Washington County, possessing the qualifications specified in §985.03, Wis. Stats., and the West Bend Daily News having the largest circulation of such county, once a week for three consecutive weeks, the first publication being on the 2nd day of September, 2015, and the last publication being on the 16th day of September, 2015, said affixing November 5, 2015, as the final redemption date for the redemption of the delinquent tax liens described in said list; and

6. Attorney Julie Maule was appointed Guardian *ad Litem* for all persons known or unknown who may or may have an interest in the lands described in said list and who are or may be minors or incompetent at the time of filing of such list in the Office of Clerk of Circuit Court and has submitted a report of Guardian *ad Litem*; and

7. It appearing that the military status of the persons having or claiming an interest in the lands described in said list is unknown; and that an order authorizing judgment against such persons pursuant to law has been entered herein; and

8. By Affidavit of Jane C. Merten, County Treasurer of Washington County, that the parcels in said list remain and were unredeemed as the time of the submission of said Affidavit; and

2

9. More than thirty days has elapsed since the November 5, 2015, the last date for redemption, and no answer herein has been served upon Jane C. Merten, County Treasurer of Washington County, except the Report of the Guardian *ad Litem* and none of the other said interested parties having appeared in said action; and

10. That an oral request for relief made by Kimberly A. Nass to sever Parcel Number 1, Property Located at 4350 State Highway 28, Kewaskum, WI 53040, due to the payment of all general property taxes, interest, penalty and special charges through April 30, 2015 for Tax Years 2014 and Prior in the amount of \$95,958.46 having been made on November 23, 2015; and

11. That the County may consider the said payment as a redemption as to Parcel No. 1 and have same applied to the outstanding taxes for Tax Years 2014 and prior; and

12. Washington County, appearing by Kimberly A. Nass, County Attorney for Washington County, and Attorney Julie Maule, Guardian ad Litem, appearing herein for and on behalf of said minors and incompetents; and proofs of the matters and things alleged in the said list and petition having been shown by the requisite amount of proof that allegations contained in said list and petition are true;

NOW, THEREFORE, IT IS ORDERED AND ADJUDGED that Washington County, Wisconsin, is entitled to be vested with an estate in fee simple for Parcels 2 and 3, absolute in all of the lands hereinafter described, subject however, to all unpaid taxes and charges which are subsequent to the latest dated tax lien appearing on the list of tax liens herein and to recorded restrictions as provided in §75.14(4), Wis. Stats.

IT IS FURTHER ORDERED AND ADJUDGED that all persons, both natural and artificial, including the State of Wisconsin, infants, incompetents, absentees and nonresidents who may have had any right, title, interest, claim, lien or equity redemption in such lands hereinafter described and all persons claiming under or through them or any of them or any of them from and after the date of filing the said list of tax liens as aforesaid are forever barred and foreclosed of such right, title, interest, claim, lien or equity of redemption.

The following are descriptions of the lands remaining unredeemed and affected by this judgment, all situated in Washington County, Wisconsin, to wit:

Parcel 2 – Property located at 308-310 Oak Street, Slinger, WI 53086 Lots Nine (9) and Ten (10) of Block Five (5), EXCEPTING Three Hundred (300) square feet of said Lot Ten (10) on the North side of said Lot, all in ADDITION TO THE FIRST ADDITION TO SCHLEISINGERVILLE, now known as the Village of Slinger, Washington County, Wisconsin.

Tax Key No.: V5 0081

Parcel 3 – Property located at 6573 Crooked Road, Hartford, WI 53027 That part of the NW ¹/₄ and the NE ¹/₄ of the NE ¹/₄ of Section 29, Township 11 North, Range 18 East, Town of Addison, Washington County, Wisconsin, bounded and described as follows:

Commencing at the Northwest corner of the said NE ¼ of Section 29; thence N 89° 08' 18" E, along the North line of the said NE ¼, a distance of 1255.30 feet, to a found Parker-Kalon masonry nail, (P.K. nail), being the point of beginning of the lands to be described; thence S 00° 46' 45" E, a distance of 299.50 feet, to a found 1 inch by 24 inch iron pipe with a red plastic plug stamped, "R.A. PAGELS R L S 1387", inserted in its top, (found iron pipe); thence S 49° 57' 52" W, a distance of 594.00 feet, to a found iron pipe; thence S 00° 28' 27" E, a distance of 638.94 feet, to a found iron pipe, in the South line of the said NW ¼ and NE ¼ of the said NE ¼; thence N 89° 31' 33" E. along the said South line, a distance of 595.28 feet, to a set 1 inch by 24 inch iron pipe); thence N 00° 46' 33" W, a distance of 1317.67 feet, to a set P.K. nail, on the North line of the said NE ¼; thence S 89° 08' 18" W, along the said North line, a distance of 132.00 feet, to the point of beginning, SUBJECT TO the Northerly 33.00 feet thereof being used as Crooked Road right-of way.

Tax Key No.: T1 0681 00Y

IT IS FURTHER ORDERED AND ADJUDGED that the County's request to sever Parcel 1, as hereinafter described is granted and Parcel 1 is severed from and dismissed without prejudice from this foreclosure action.

Parcel 1 – Property located at 4350 State Highway 28W, Kewaskum, WI 53040

That part of the South East Quarter of the South West Quarter of Section 5, Town 12 North, Range 19 East, Town of Kewaskum, Washington County, Wisconsin bounded by a line described as follows:

Beginning at the South Quarter Corner of said Section 5; thence West along the South line of said quarter Section, 217.0 feet; thence N 00 degrees 38' 30" W218.0 feet; thence East, 217.0 feet to the East line of said quarter Section; thence S 0 degrees 38' 30" E along the Quarter Section line, 218.0 feet to the point of beginning. Containing 1.086 acres more or less. Reserving therefrom the Southerly 33 feet for Highway purposes, all subject to the rights granted to the Wisconsin Electric Power Co. as described in Volume 317 on page 577 of Records.

Also

That part of Southeast ¼ of the Southwest ¼ of Section 5, Township 12 North, Range 19 East, Town of Kewaskum, Washington County, Wisconsin bounded by a line described as follows: Commencing at the South ¼ corner of said Section 5; thence West on the south line of said quarter section, 217.00 feet to the point of beginning of the parcel herein described; thence continuing West on the South line of said line of said quarter section, 10.00 feet; thence North 00 degrees 38 minutes 30 seconds West, 875.00 feet; thence East parallel with the south line of said quarter section, 227.00 feet to the east line of said quarter section, 657.00 feet; thence West parallel with the south line of said quarter section, 217.00 feet; thence South 00 degrees 38 minutes 30 seconds East, on the east line of said quarter section, 217.00 feet; thence South 00 degrees 38 minutes 30 seconds East, 218.00 feet to the point of beginning. Containing approximately 3.474 acres, more or less. Subject to the rights granted to Wisconsin Electric Power Company described in Volume 317 of Records – Washington County at page 577. All that part thereof lying within 33 feet of the south line of Section 5 being subject to use as a public highway.

Tax Key No.: T8-0111-00G

Dated this _____ day of _____ 2015.

BY THE CO

The Honorable Andrew T. Gonring Circuit Court Judge, Branch IV

STATE OF WISCONSIN COUNTY OF WASHINGTON I certify that this is a true and co copy of a decument in the possesion Clerk of C must Court for Washington THIS CERTIFICATE IS NOT VAL INCLUDES THE COURT SEAL CLERK OF CIRCUIT COUR

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT F.2

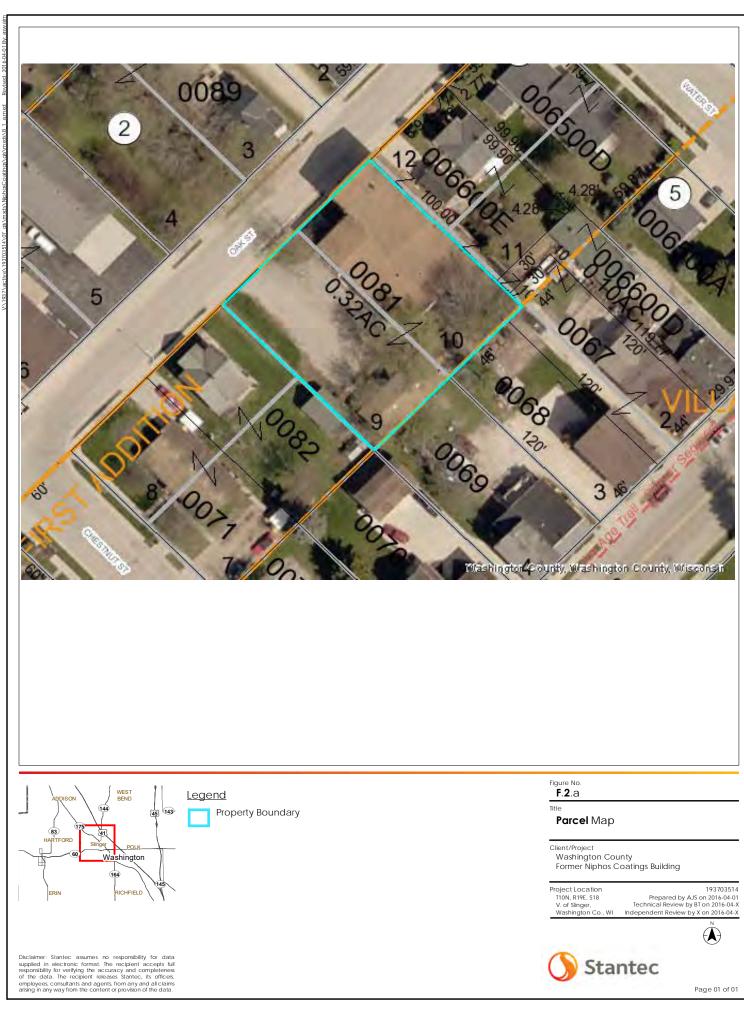
CERTIFIED SURVEY MAP

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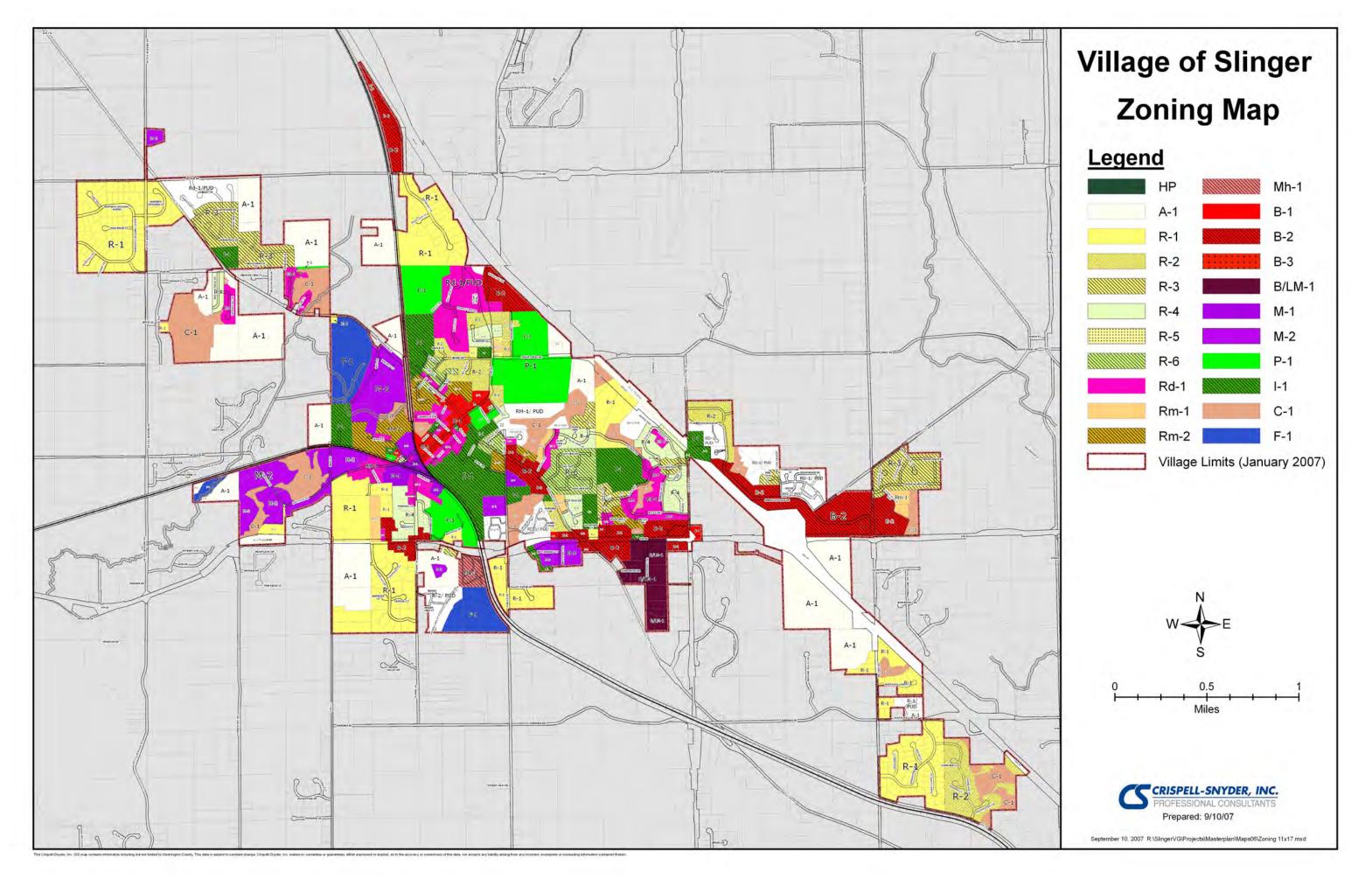




Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT F.3

VERIFICATION OF ZONING



Village of Slinger Comprehensive Plan – Implementation Element

CHAPTER XXXI ZONING ORDINANCE VILLAGE OF SLINGER, WASHINGTON COUNTY, WISCONSIN

ARTICLE 3.00 ZONING DISTRICTS

3.01 ESTABLISHMENT

A. Zoning Districts

For the purpose of this ordinance, the Village of Slinger is hereby divided into the following zoning districts:

- A-1 Agricultural/Transitional District
- R-1 Single-Family Residential District
- R-2 Single-Family Residential District
- R-3 Single-Family Residential District
- R-4 Single-Family Residential District
- R-5 Single-Family Residential District
- R-6 Single-Family Residential District
- Rd-1 Two-Family Residential District
- Rm-1 Multiple-Family Residential District
- Rm-2 Multiple-Family Residential District
- Mh-1 Mobile Home Park Residential District
- B-1 Commercial District
- B-2 Commercial District
- B-3 Commercial District
- B&LM-1 Business and Light Manufacturing District
- M-1 Limited Manufacturing District
- M-2 General Manufacturing District
- P-1 Park & Recreation District
- I-1 Institutional District
- C-1 Conservancy District
- F-1 Floodplain Conservancy
- HP Historic Preservation (Reserved for Future Use)
- GP Groundwater Protection (Overlay District)
- PUD Planned Unit Development Overlay District
- COS Conservation Subdivision Overlay

B. <u>Designation of Boundaries</u>

Boundaries of these districts are hereby established as shown on the map entitled "Zoning Map - Village of Slinger, Wisconsin" dated June 17, 1996, which accompanies and is herewith made a part of this ordinance. Such boundaries shall be construed to follow corporate limits, U.S. Public Land Survey lines, lot property lines, centerlines of streets, highways, alleys, easements, railroad rights-of-way or such lines extended, and the limits of delineated Conservancy areas unless otherwise noted on the Zoning Map. The floodplain limits are based on the limits shown on the Flood Hazard Boundary Map published by the Federal Emergency Management Agency (FEMA), dated October 21, 1977, and additional interpretations made by the staff of the Southeastern Wisconsin Regional Planning Commission in May 1981. The floodplain limits are further depicted on the Village of Slinger large-scale (1" = 200', 2' contour interval) topographic maps prepared for the Village by Owen Ayres and Associates, Inc., from aerial photography taken on April 22, 1980.

C. <u>Zoning of Annexed Areas</u>.

- 1. <u>Temporary Zoning</u>. The Village Board shall refer to the Planning Commission for a recommendation regarding the temporary zoning classification for any land being considered for annexation, and shall include in the annexation ordinance a provision designating a temporary zoning district classification for such area.
- 2. <u>Permanent Zoning</u>: If the intended land use is known at the time of annexation, or as soon as practical after the annexation is final, the permanent zoning classification for the annexed area shall be established by zoning amendment pursuant to S62.23 (7) (d) stats.
- 3. <u>Floodplains</u>. At the time of annexation, floodplain areas shall be zoned to the F-1 Floodplain Conservancy District.
- 4. <u>Wetlands</u>. At the time of annexation, wetland areas shall be zoned to the C-1 Conservancy District.

3.02 ZONING MAP.

A certified copy of the Zoning Map shall be adopted and approved with the text as part of this ordinance and shall bear upon its face the attestation of the Village President and Village Clerk and shall be available to the public in the office of the Village Clerk.

Modifications to the zoning districts shall be entered and attested on the certified copy. Changes in the F-1 Floodplain District shall not become effective until approved by the Wisconsin Emergency Management Agency (WEMA).

3.03 A-1 AGRICULTURAL/TRANSITIONAL DISTRICT

The A-1 Agricultural/Transitional District is intended to provide the Village with a transitional district allowing the maintenance of existing continuous agricultural uses until such time as urban development is warranted and/or necessary.

A. <u>Permitted Uses</u>

- 1. Forest Preserves
- 2. Game Management

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Agricultural-related uses
- 2. Single-family farm dwellings

C. <u>Permitted Accessory Uses</u>

- 1. Forest and Game Management related structures
- 2. Chicken keeping and chicken coops in accord with Section 2.07 K.

D. <u>Parcel Area & Width</u>

1. The minimum area of a parcel of land maintained and/or annexed to the Village with the A-1 Agricultural/Transitional District shall be 10 acres.

E. <u>Building Height & Area</u>

- 1. Buildings shall be limited to a maximum 35 feet in height.
- 2. No farm building or parts of farm buildings shall exceed 80 feet in height.
- 3. The total minimum floor area of a dwelling shall be 1,200 square feet, with a first floor area of not less than 800 square feet.
- F. <u>Yards</u>
 - 1. A minimum street yard (setback) of 50 feet from the highway or road rightof-way shall be required.
 - 2. There shall be a side yard on each side of all structures not less than 25 feet in width.
 - 3. There shall be a rear yard of not less than 50 feet.

3.04 R-1 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-1 Residential District is intended to provide for single-family residential development in a more rural large lot setting. Typical lots will not have sanitary sewer or municipal water system connections.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage.
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements 3 8 persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool, and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
 - 3. Chicken keeping and chicken coops in accord with Section 2.07 K.

D. Lot Area & Width

1. Lots shall have a minimum area of 40,000 square feet and shall be not less than 150 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 80% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,500 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum side yard of 15 feet to the lot line.
 - 3. There shall be a rear yard of not less than 25 feet.

4. The minimum side and rear yard setback for all accessory structures shall be 10 feet.

3.05 R-2 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-2 Residential District is intended to provide for large lot single-family residential development, served by municipal sewer and water facilities or private (on site or off site) sewer and water facilities.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements $3 \approx 8$ persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 20,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 75% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,500 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.

- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum aggregate side yard of 30 feet, and no single side yard shall be less than 15 feet. No 15 foot side yard shall abut a second 15 foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be ten (10) feet.

3.06 R-3 SINGLE-FAMILY RESIDENTIAL DISTRICT

The R-3 Residential District is intended to provide for medium sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements $3 \approx 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 14,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 70% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,200 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum aggregate side yard of 30 feet, and no single side yard shall be less than 10 feet. No 10 foot side yard shall abut a second 10 foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.07 R-4 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-4 Residential District is intended to provide for medium sized lot single-family residential development, served by municipal sewer and water facilities.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage.
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements $\gg 8$ persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.

D. Lot Area & Width

1. Lots shall have a minimum area of 12,000 square feet and shall be not less than 80 feet in width.

E. Green Space

- 1. There shall be a minimum of 65% of lot area retained as green space, as defined in Section 16.02 of this ordinance.
- F. <u>Building Height & Area</u>
 - 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
 - 2. The total minimum floor area of a dwelling shall be 1,100 square feet. Two story dwelling units shall require a minimum 1,400 square feet, with a first floor of not less than 800 square feet.
 - 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 25 feet. No single side yard shall be less than 10 feet, and no 10-foot side yard shall abut upon another 10-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.08 R-5 SINGLE FAMILY RESIDENTIAL DISTRICT

The R-5 Residential District is intended to provide for small sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage.
 - 2. Foster Homes

- 3. Family Day Care Homes
- 4. Community Living Arrangements $\stackrel{>}{\rightarrow} 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 9,600 square feet and shall be not less than 80 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this ordinance.
- F. Building Height & Area
 - 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
 - 2. The total minimum floor area of a dwelling shall be 1,000 square feet. Two story dwelling units shall require a minimum 1,200 square feet, with a first floor of not less than 700 square feet.
 - 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 25 feet. No single side yard shall be less than 10 feet, and no 10-foot side yard shall abut upon another 10-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.09 R-6 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-6 Residential District is intended to provide for small sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements $3 \approx 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.

D. Lot Area & Width

- 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 60 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum 45% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 950 square feet. Two story dwelling units shall require a minimum of 1,200 square feet, with a first floor area of not less than 700 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.

- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 18 feet. No single side yard shall be less than 6 feet, and no 6-foot side yard shall abut upon another 6-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.10 Rd-1 TWO-FAMILY RESIDENTIAL DISTRICTS.

The Rd-1 Residential District is intended to provide for medium sized lot two-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with attached or detached garage
 - 2. Two-family dwellings with attached or detached garage
 - 3. Foster Homes
 - 4. Family Day Care Homes
 - 5. Community Living Arrangements $\gg 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building
- 3. One accessory garage apartment dwelling unit per lot located in the second story of a detached garage. On any Rd-1 lot where a garage apartment is approved, the total number of dwelling units shall not exceed two (2), including the garage apartment.
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 14,000 square feet and shall be not less than 90 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 70% of lot are retained as green space for single family uses, and 50% of lot area retained as green space for two-family uses, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The minimum floor area of a dwelling shall be 950 square feet per dwelling unit.
- 3. The sum total of the area of all accessory structures on a lot shall not exceed 720 square feet for a single-family dwelling or 960 square feet for a two-family dwelling, whichever is larger.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public roads shall be required.
 - 2. There shall be a minimum side yard of 10 feet to the lot line.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.11 Rm-1 MULTIPLE-FAMILY RESIDENTIAL DISTRICT.

The Rm-1 Residential District is intended to provide for medium lot size multiple-family residential developments limited to structures not exceeding four units, and served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Multiple-family dwellings, not to exceed four units per structure with an:
 - (a) Attached or detached 300 square foot garage per unit if the structure is constructed slab on grade.
 - (b) Attached or detached 200 square foot garage per unit if the structure is constructed with a basement.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements for $\gg 15$ persons
- B. <u>Conditional Uses</u>
 - 1. Elderly Housing arrangements for < 23 persons
 - 2. Community Living arrangements > 15 persons

C. <u>Permitted Accessory Uses</u>

- 1. Private garages and carports.
- 2. Gardening, tool and storage sheds incidental to the residential use.

D. Lot Area & Width

1. Lots shall have a minimum 18,000 square feet and shall be not less than 90 feet in width at the setback.

E. <u>Green Space</u>

1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. Building Height & Area

- 1. No principal building or parts of a principal building shall exceed 35 feet in height. No accessory building shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of each unit shall be 600 square feet for efficiency and one-bedroom units. Each additional bedroom or area that could be converted to a bedroom shall require an additional 200 square feet of floor area.
- 3. The sum total of the area of all accessory structures on a lot shall not exceed 480 square feet per dwelling unit.

G. <u>Yards</u>

- 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
- 2. There shall be a minimum side yard of the greater of fifteen (15) feet or the height of the structure at its highest point measured from the finished grade of the same side yard.
- 3. There shall be a rear yard of not less than 25 feet.

H. <u>Plans & Specifications to Be Submitted to the Plan Commission</u>

To encourage and insure that multiple-family residential development is environmentally compatible with the medium-density residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of this Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.12 Rm-2 MULTIPLE-FAMILY RESIDENTIAL DISTRICT

The Rm-2 Residential District is intended to provide for medium lot size multiple-family residential developments served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Multiple-family dwellings, not to exceed four units per structure with an:
 - (a) Attached or detached 300 square foot garage per unit if the structure is constructed slab on grade.
 - (b) Attached or detached 200 square foot garage per unit if the structure is constructed with a basement.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements for ≈ 15 persons
- B. <u>Conditional Uses</u>
 - 1. Multiple-family dwellings > 4 dwelling units
 - 2. Elderly Housing arrangements for < 23 persons
 - 3. Community Living arrangements > 15 persons
 - 4. Cellular and Digital Communication Antennas and Towers
- C. <u>Permitted Accessory Uses</u>
 - 1. Private garages and carports.
 - 2. Gardening, tool and storage sheds incidental to the residential use.
- D. Lot Area & Width
 - 1. Lots shall have a minimum 18,000 square feet and shall be not less than 90 feet in width at the setback.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. Building Height & Area

- 1. No principal building or parts of a principal building shall exceed 35 feet in height. No accessory building shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of each unit shall be 750 square feet for efficiency and one-bedroom units. Each additional bedroom or area that could be converted to a bedroom shall require an additional 200 square feet of floor area.

- 3. The sum total of the area of all accessory structures on a lot shall not exceed 480 square feet per dwelling unit.
- 4. Buildings for residents age 55 and over which have indoor underground parking shall not exceed 48 feet in height, and shall not contain more than 3 stories, excluding underground parking.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum side yard setback of the greater of fifteen (15) feet or the height of the structure at its highest point measured from the finished grade of the same side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
- H. <u>Plans & Specifications to Be Submitted to the Plan Commission</u>

To encourage and insure that multiple-family residential development is environmentally compatible with the medium-density residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of this Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.13 Mh-1 MOBILE HOME PARK RESIDENCE DISTRICT

The Mh-1 Mobile Home Park District is intended to provide for the location of mobile home parks and mobile home subdivisions in a residential setting that is compatible with adjacent land uses. Mobile homes are declared herein to be residential structures and entitled to the same protection from incompatible uses as are afforded in other residential districts.

- A. <u>Permitted Uses</u>
 - 1. Individual mobile homes on lots in mobile home subdivisions.
- B. <u>Conditional Uses</u>

1. MOBILE HOME PARKS

- (a) Minimum park size shall be 10 acres.
- (b) Minimum park width shall be 450 feet.
- (c) Maximum number of mobile home sites shall be six (6) per acre.
- (d) Minimum green space provided shall be 45 percent (45%)of the development area, exclusive of streets.
- (e) Minimum lot area shall be 7,200 square feet. The mobile home lot shall be a minimum of sixty(60) feet.

- (f) Minimum lot area for a double module mobile home shall be 6,000 square feet. The mobile home lot shall be a minimum of fifty(50) feet wide.
- (g) Minimum setback for a mobile home park shall be fifty(50) feet from all public streets.
- (h) Minimum distance between mobile home units and all other exterior park lotlines shall be forty (40) feet.
- (i) Minimum distance between mobile home and service road shall be twenty-five(25) feet. Minimum distance between mobile home trailers shall be twenty(20) feet.
- (j) All drives, parking areas, and walkways shall be surfaced with dustfree material. There shall be two (2) parking spaces for each mobile home.
- (k) No mobile home sales office or other business or commercial use shall be located on the mobile home park site. However, laundries, washrooms, recreation rooms, maintenance equipment storage and one (1) office are permitted.
- (1) All landscaping and screening shall be approved through the Planning Commission in accordance with Article 9, Section 9.12 of this code.
- (m) All mobile homes shall meet the construction standards of the Mobile Homes Manufacturing Association.
- (n) No mobile home site shall be rented for a period of less than 30 days.

C. <u>Permitted Accessory Uses</u>

- 1. Private garages and carports in mobile home subdivisions.
- 2. Gardening, tool and storage sheds incidental to the residential use in mobile home subdivisions.
- 3. Home occupations and professional home offices in mobile home subdivisions.
- D. Lot Area & Width
 - 1. Lots in a mobile home subdivision shall have a minimum of 7,200 square feet in area and shall be not less than 70 feet in width.

E. <u>Green Space</u>

- 1. There shall be a minimum of forty-five(45) percent of lot area designated as green space, as defined in Section 16.02 of this ordinance.
- F. Building Height & Area
 - 1. No building or parts of a building shall exceed 35 feet in height.
 - 2. The minimum floor area for a dwelling shall be 600 square feet.

- G. <u>Yards</u>
 - 1. A minimum street yard setback of twenty-five(25) feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards. Each side yard shall be not less than 10 feet in width.
 - 3. There shall be a rear yard of not less than 25 feet.

3.14 B-1 COMMERCIAL DISTRICT

The B-1 Business District is intended to provide for the orderly continuation of the traditional central business district of the Village. The business activities in the district are of a general retail nature and are characterized by on-street parking.

- A. <u>Permitted Uses</u>
 - 1. Retail Stores
 - 2. Offices
 - 3. Professional Services
 - 4. Medical Clinics
 - 5. Theaters
 - 6. Taverns/Restaurants
 - 7. Hotels/Motels
 - 8. Financial/Banking Institutions
 - 9. Single-Family Dwellings constructed prior to 08-14-02
 - 10. Two-Family Dwellings constructed prior to 08-14-02.
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Drive-through Facilities
- 2. Fuel/Automotive Service Stations
- 3. Antique & Second Hand Merchandise Sales
- 4. Veterinary Services
- 5. Funeral Homes
- 6. Tattooing and/or Body Piercing Establishments as Defined by the State.
- 7. Multiple-Family Residential Structures
- 8. Retail Sales/Rental of Sexually Explicit Materials
- 9. Child Care Facilities
- 10. Vehicle Sales
- 11. Septic Tank Services & Installation Use existing prior to 08-14-02
- 12. Vehicle and Trailer Rentals
- 13. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125
- 14. Conversion of Commercial Buildings (existing prior to February 18, 2013 to one and two-family dwellings meeting requirements of the Uniform Dwelling Code.

- 15. Outdoor storage of operable vehicles, trucks, trailers, RV's, boats and similar recreational equipment. All such storage areas shall be screened from view from nearby public streets and nearby residential and business areas in accord with an approved site plan showing the screening of fencing measures.
- 16. Youth social activity clubs
- C. <u>Permitted Accessory Uses</u>
 - 1. Accessory garages for the storage of vehicles used in conjunction with the operation of a permitted business.
 - 2. Off-street parking and loading areas.
 - 3. Residential quarters for the owner, proprietor, commercial tenant, employee, or caretaker located in the same building as the business. If the residential quarters are located on the ground floor, they shall not be facing upon the public street.
 - 4. Rental efficiency, one bedroom and two bedroom apartments on a nonground floor provided there shall be a minimum floor area of 400 square feet for an efficiency apartment, 550 square feet for a one-bedroom apartment and 700 square feet for a two-bedroom apartment.
 - 5. Garage accessory to a permitted residence.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 70 feet in width.
- E. <u>Building Height</u>
 - 1. No building or part of a building shall exceed 35 feet in height.
- F. <u>Yards</u>
 - 1. No minimum setback shall be required.
 - 2. No minimum side yard is required between buildings, however, where a side yard is required, it shall be not less than 10 feet in width.
- G. <u>Plan Review</u>
 - 1. To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading, unloading, and landscape plans.

3.15 B-2 COMMERCIAL DISTRICT

The B-2 Commercial District is intended to provide for the orderly and attractive grouping at appropriate locations along principal highway routes of those businesses and customer service establishments which routes of businesses and customer service establishments which are logically related to and dependent upon highway traffic or which are specifically designed to serve the needs of such traffic.

Certain types of residential facilities may be permitted in the B-2 District either as secondstory units accessory to commercial buildings, or as Conditional Uses for specific types of housing for the elderly.

- A. <u>Permitted Uses</u>
 - 1. Essential Services
 - 2. Financial/Banking Institutions
 - 3. Fuel/Automotive Service Stations (Constructed prior to 07-01-02)
 - 4. Hotels/Motels
 - 5. Medical Clinics
 - 6. Offices
 - 7. Professional Services
 - 8. Retail Stores
 - 9. Taverns/Restaurants
- B. <u>Conditional Uses</u>
 - 1. Antique and Second Hand Merchandise Sales
 - 2. Assisted Living Facilities for the Elderly
 - 3. Athletic Clubs/Associated Facilities
 - 4. Cellular and Digital Communication Antennas and Towers
 - 5. Community Based Residential Facilities
 - 6. Community Living Arrangements
 - 7. Congregate Housing for the Elderly
 - 8. Construction Services/Contractor Shops
 - 9. Day Care Facilities
 - 10. Drive-through Facilities
 - 11. Fuel/Automotive Service Stations (Constructed after 07-01-02)
 - 12. Funeral Homes
 - 13. Nursing Homes
 - 14. Residential Care Facilities for the Elderly
 - 15. Tattooing and/or Body Piercing Establishments as Defined by the State
 - 16. Theaters
 - 17. Uses Permitted in the M-1 Manufacturing District with no outside storage
 - 18. Vehicle Sales
 - 19. Veterinary Services
 - 20. Car Washes
 - 21. Conference Centers/banquet Halls/Event Facilities
 - 22. Enclosed Connecting Walkways (located in sideyards)
 - 23. Self-Storage Facilities (See Sec 4.02 E.)

- 24. Auto Body Repair/Restoration with Outdoor Storage
- 25. Vehicle Towing Services with Outdoor Storage
- 26. Vehicle & Trailer Rentals
- 27. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125
- 28. Car & light truck repair and service
- 29. Indoor archery ranges
- 30. Youth social activity clubs

C. <u>Permitted Accessory Uses</u>

- 1. Accessory garages for the storage of vehicles used in conjunction with the operation of a permitted business.
- 2. Off-street parking and loading areas.
- 3. Residential units in conjunction with a permitted or conditionally permitted use provided residential unit is not on the first, or street, level of the structure. Said residential unit shall have a minimum floor area of 600 square feet for efficiencies and one-bedroom units, plus an additional 200 square feet for each additional bedroom.
- D. Lot Area and Width
 - 1. The total development area of a highway business use shall be not less than 20,000 square feet.
 - 2. Individual shops and stores shall provide sufficient area for the principal structure and its accessory structures, offstreet parking and loading areas, and all required yards.
 - 3. No business development shall be less than 90 feet in width.

E. <u>Green Space</u>

- 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed 45 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No principal building or structure shall be located closer than twenty (20) feet to any lot line, except where property is adjacent to zoned residential districts where it shall be forty (40) feet to any residentially zoned lot line.

H. <u>Plan Review</u>

1. To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking loading and unloading, and landscape plans.

3.16 B-3 COMMERCIAL DISTRICT

The B-3 Commercial District is intended to provide for the orderly and attractive grouping at appropriate locations of professional offices.

- A. <u>Permitted Uses</u>
 - 1. Offices
 - 2. Professional Services
 - 3. Medical Clinics
- B. <u>Conditional Uses</u>
 - 1. Laboratories
 - 2. Veterinary Clinics
 - 3. Child Care Facilities
 - 4. Financial/Banking Institutions
 - 5. Drive-In Banking Facilities
 - 6. Athletic Clubs/Associated Facilities
 - 7. Uses Permitted in the M-1 Manufacturing District with no outside storage
 - 8. Uses Permitted in the B-1 and B-2 Commercial Zoning Districts
 - 9. Green Space requirement of thirty-five (35) percent of lot area
 - 10. Cellular and Digital Communication Antennas and Towers
 - 11. Vehicle & Trailer Rentals
 - 12. Youth social activity clubs
- C. <u>Permitted Accessory Uses</u>
 - 1. Off-street parking and loading areas.
- D. Lot Area and Width
 - 1. The total development area of a B-3 Commercial use shall be not less than 20,000 square feet.
 - 2. No business development shall be less than 90 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. <u>Building Height</u>

- 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.
- H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking loading and unloading, and landscape plans.

3.165 <u>B & LM-1 BUSINESS AND LIGHT MANUFACTURING DISTRICT</u>

- A. <u>Purpose</u>. The B&LM-1 Business and Light Manufacturing District is intended to provide for the development of compatible manufacturing, warehouse, office, service business and supporting uses. The physical and operational characteristics of uses in this District are based on performance standards which would not be detrimental to the public health, safety or welfare or detrimental to the surrounding area as a result of noise, vibration, external lighting, odor, particulate emissions, other visible emissions, hazardous pollutants, traffic, physical appearance, or other similar factors. All uses in this District must comply with applicable local, state and federal codes and standards. Uses in the District are also intended to provide ample off-street parking and loading areas, and landscaped planting screens in areas adjacent to or abutting residential uses.
- B. <u>Permitted Uses</u>.
 - 1. Banks, Credit Unions, and similar financial institutions.
 - 2. Business, professional, clerical or general offices.
 - 3. Medical Clinics and offices.
 - 4. Research laboratories.

- 5. Sales of industrial and construction supplies.
- 6. Uses involving the manufacture and fabrication of goods conducted entirely inside a building at all times, and in which any noise, vibration, heat or flash produced in any process is confined within the building at all times. Any odors produced or emitted in any process must meet applicable federal and state regulations for air emissions. See the Performance Standards for the B&LM-1 District in Section 9.13.
- 7. Uses providing a service conducted entirely inside a building at all times, and in which any noise, vibration, heat, or flash produced on the premises by such service use is confined within a building at all times. Any odors produced or emitted must meet applicable federal and state regulations for air emissions. See the Performance Standards for the B&LM-1 District in Section 9.13.
- 8. Warehouse storage buildings, where all goods and materials are stored inside a building at all times, but not including mini-warehouse buildings. See Section 3.165 D. 5 for mini-warehouses.
- C. <u>Permitted Accessory Uses</u>.
 - 1. Food service areas or cafeterias incidental to a permitted use, but not restaurants.
 - 2. Garages or buildings used for the storage of vehicles or equipment used in conjunction with the operation of a permitted use.
 - 3. Ground-mounted and building-mounted dish antennas.
 - 4. Off-street parking and loading areas.
 - 5. Outdoor storage of materials or manufactured products, trucks, trailers and equipment accessory to the principal use. All such outdoor storage areas shall be screened from view from nearby public streets and from nearby residential areas in accord with an approved site plan.
 - 6. Retail sales of products integral with and incidental to a service or manufacturing business located on the same premises.
- D. <u>Conditional Uses</u>. The following uses may be permitted in accordance with the provisions of Section 4.00:
 - 1. Communication towers, antennas, structures and facilities.
 - 2. Day care facilities.
 - 3. Incineration in conjunction with and incidental to a service or manufacturing use.
 - 4. Indoor athletic facilities.
 - 5. Self-Storage facilities (See Sec. 4.02 E.)
 - 6. Motels and Hotels.
 - 7. Public or municipal buildings, and public utility structures.
 - 8. Restaurants
 - 9. Vehicle sales and service
 - 13. Veterinary offices and small animal hospitals without outdoor kennels.
 - 14. Vehicle & Trailer Rentals

- E. <u>Prohibited Uses</u>. In addition to other uses not expressly permitted in this district, the following uses are specifically prohibited, and are listed by way of example, but not limitation:
 - 1. All types of residential uses, except guard quarters.
 - 2. Asphalt & Concrete plants.
 - 3. Automobile storage, salvage, recycling yards, or similar uses.
 - 4. Churches, synagogues, schools, or similar institutional uses or places of religious worship.
 - 5. Contractors yards and the outdoor storage of construction equipment.
 - 6. Drop forges, ferrous and brass foundries, grain elevators, refineries or tanneries.
 - 7. Fertilizer storage or packaging.
 - 8. Planing mills and sawmills.
 - 9. Principal uses involving the storage, utilization, or manufacture of hazardous materials or products which decompose by detonation.
 - 10. Solid and liquid waste disposal, dumping, medical waste storage or disposal, or similar waste management uses.
 - 11. Stockyards, slaughterhouses and rendering plants.
 - 12. Storage and dispensing of fuels and petroleum products.
 - 13. Truck terminals.
 - 14. Wholesale buying clubs.
- F. <u>Performance Standards</u>. Uses in the B&LM-1 District shall comply with the Performance Standards set forth in Section 9.13.
- G. <u>Number of Buildings per Lot</u>. Each lot shall contain a maximum of one (1) principal building. There shall be no limit on the number of accessory buildings provided the lot coverage/open space requirement described in Section I are complied with.
- H. Lot Area and Width.
 - 1. Lots shall be a minimum of twenty thousand (20,000) square feet in area.
 - 2. Lots shall not be less than ninety (90) feet in width.
- I. <u>Lot Coverage and Green Space</u>. To achieve an attractive appearance and to provide green space for stormwater management and sedimentation control, lot coverage by buildings, accessory structures, and surface parking and driveways shall occupy a maximum of seventy-five percent (75%) of the lot area. Landscaped green space not covered by buildings, accessory structures, and surface parking and driveways shall occupy a minimum of twenty-five percent (25%) of the lot area. The green space may include stormwater retention/detention areas.
- J. <u>Setback and Yards</u>.
 - 1. These shall be a minimum street yard(setback)of forty (40)feet from any existing or planned public street right-of-way.
 - 2. There shall be a minimum interior side yard of not less than twenty (20) feet on a side.

- 3. There shall be a minimum rear yard of not less than twenty-five (25) feet.
- 4. Accessory uses, accessory buildings or accessory structures shall be located in side or rear yards only, and shall be setback a minimum of ten (10) feet from a side or rear lot line.
- 5. Outdoor storage areas shall be located in side or rear yards only, and shall be setback a minimum of ten (10) feet from a side or rear lot line.
- 6. Parking lots located in street yards shall be setback a minimum of twenty (20) feet from the street right-of-way. This includes parking lots in corner lot side yards.
- 7. Parking lots located in side or rear yards shall be setback a minimum of ten (10) feet from side or rear lot lines.
- 8. Setbacks and buffer yards adjacent to residential districts or residential uses. On B&LM-1 lots adjacent to residential districts, all outdoor storage areas, accessory buildings, or accessory uses including parking lots shall provide a greater setback to provide a buffer yard. Any such uses shall be setback a minimum of forty (40) feet from a property line adjacent to or abutting a residential district. The buffer yard area shall be landscaped or fenced, or a combination thereof, to screen such uses in accord with a site plan requiring such screening or fencing.
- K. <u>Building Height</u>. No building or parts of a building shall exceed thirty-five (35) feet in height. Accessory buildings or structures shall not exceed twenty (20) feet in height.
- L. <u>Parking, Driveways, Loading and Storage Areas</u>. Parking facilities, driveways, loading and storage areas shall be paved with either asphaltic concrete or portland cement concrete prior to the occupancy of the building. Peripheral edge landscaping shall be installed around the edges of parking areas visible from public streets or residential areas. See Section 5.00 for additional requirements related to parking, driveway, and loading facilities.
- M. <u>Loading Areas and Docks, Garbage and Trash Areas</u>. Loading areas or docks shall be located in side or rear yards. Outdoor garbage and trash areas shall be enclosed with a fence or wall of solid decorative material compatible with the principal building.
- N. <u>Signs</u>. Signs in the B&LM-1 District shall be erected and maintained in conformity with the requirements in Section 6.00.
- O. <u>Exterior Lighting</u>. Exterior lighting in the B&LM-1 District shall meet the following criteria:
 - 1. Exterior lighting shall be located, oriented, and shielded and of an intensity so as to illuminate only the building or lot without adversely affecting activity on adjacent lots or traffic on street and highways.
 - 2. Exterior lighting shall be directed away from nearby residential areas.
 - 3. Exterior lights or signage shall not flash, pulsate, nor impair or hinder vision on public street rights-of-way or adjacent properties.

- 4. Exterior lighting shall meet the standards promulgated by the Illuminating Engineering Society of North America.
- P. <u>Site Plan and Architectural Approval Required</u>. No building, structure or improvement shall be constructed or placed on any lot, nor shall any building structure or improvement be remodeled or altered until site and architectural plans for such improvements have been approved by the Planning Commission in accord with the requirements of Section 10.00.
- Q. <u>Compliance with Landscaping Requirements & Design Review Criteria</u>. Uses in the B&LM-1 District are required to comply with other additional requirements contained in Section 9.12 & 5.03 I. regarding landscaping requirements, and in Section 10.04 D. regarding site and building design review criteria.

3.17 M-1 MANUFACTURING DISTRICT

The M-1 Manufacturing District is intended to provide for manufacturing or fabrication operations, which, on the basis of physical and operational characteristics, would not be detrimental to the immediate surrounding area or to the Village as a whole by reason of smoke, odor, noise, dust, flash, traffic, physical appearance, or other similar factors; and to establish such regulatory controls as will reasonable insure compatibility with the surrounding area in this respect.

- A. <u>Permitted Uses</u>
 - 1. Warehouses
 - 2. All uses involving the manufacture of goods within the confines of a building and in which any smoke, noise, dust, flash, or odor produced in the manufacturing process is confined within the building.
 - 3. All uses involving the fabrication of materials within the confines of a building and in which any smoke, dust, flash, noise, or odor produced in the fabrication process is confined within the building.
 - 4. All uses involving the provision of a service which is either manufacturing or fabrication-related and not permitted in business districts confined within a building, and in which smoke, dust, flash, heat, noise, or odor produced by such service uses is confined within the building.
- B. <u>Permitted Accessory Uses</u>
 - 1. Enclosed as well as screened areas for the storage of materials, other than explosive or flammable materials or substances used in the manufacturing or fabrication process.
 - 2. Offices normally auxiliary to the principal use.
 - 3. Garages for the storage of vehicles used in the conjunction with the operation of the industrial use.
 - 4. Auxiliary power generators.
 - 5. Offstreet parking and loading areas.
 - 6. Essential services.

- 7. Sale of products directly related to a service or manufacturing business located on the same premises.
- C. <u>Conditional Uses</u>
 - 1. Communication Towers/Stations
 - 2. Freight Service/Terminals
 - 3. Self-Storage facilities (See Sec. 4.02 E.)
 - 4. Athletic Clubs/Associated Facilities
 - 5. Salvage Yards
 - 6. Cellular and Digital Communication Antennas and Towers
 - 7. Animal Day Care & Boarding & Grooming
 - 8. Retail or wholesale sales of products not manufactured on the premises. The retail sales shall be incidental to the principal permitted use, and shall be limited to thirty-three (33) percent of the gross floor area of the principal building and all accessory buildings.
 - 9. Indoor and outdoor recreational facilities and uses such as amusement arcades, archery ranges, billiards, bowling, court games, carting, gymnastics, exercise/health clubs, paint ball, roller skating, all with related food & beverage services.
 - 10. Vehicle & Trailer Rentals
 - 11. Youth social activity clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 20,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.

H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the business districts shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and screening and landscape plans.

3.18 M-2 GENERAL MANUFACTURING DISTRICT

The M-2 Manufacturing District if intended to provide for the same type of manufacturing and fabricating operations and uses as in the M-1 Manufacturing District plus more intensive uses. However, these operations and uses shall be provided in those areas where the relationships to surrounding land use wold create fewer problems of compatibility. The M-2 Manufacturing District also permits those activities generally perceived as being of a nuisance nature or considered to be hazardous. Such district should not normally abut directly upon Residential, Commercial, or Institutional Districts.

- A. <u>Permitted Principal Uses</u>
 - 1. All uses as permitted in the M-1 District.
 - 2. All manufacturing fabricating, and storage uses not permitted in any other industrial district (except the manufacture or fabrication of explosives, flammable liquids, chemicals, and gaseous or vaporous substances) as long as such permitted uses are carried on within an enclosed structure or within a totally screened yard area.
- B. <u>Permitted Accessory Uses</u>
 - 1. Enclosed as well as screened open storage of materials other than explosive or flammable materials or substances used in the manufacturing or fabrication process.
 - 2. Offices normally auxiliary to the principal use.
 - 3. Garages for the storage of vehicles used in conjunction with the operation of the industrial use.
 - 4. Auxiliary power generators.
 - 5. Offstreet parking and loading areas.
 - 6. Essential services.
 - 7. Sale of products directly related to a service or manufacturing business located on the same premises.

C. <u>Conditional Uses</u>

- 1. Sewage Treatment Plants
- 2. Incinerators
- 3. Warehousing of Hazardous Materials
- 4. Bulk Fuel Storage
- 5. Self-Storage facilities (See Sec 4.02 E.)
- 6. Salvage Yards
- 7. Green Space requirement of twenty-five (25) percent of lot area
- 8. Cellular and Digital Communication Antennas and Towers
- 9. Bus Terminal and Related Service Facilities
- 10. Vehicle Sales, when the primary business is vehicle related.
- 11. Electrical substations & related facilities
- 12. Animal Day Care & Boarding & Grooming
- 13. Retail or wholesale sales of products not manufactured on the premises. The retail sales shall be incidental to the principal permitted use, and shall be limited to thirty-three (33) percent of the gross floor area of the principal building and all accessory buildings.
- 14. Indoor and outdoor recreational facilities and uses such as amusement arcades, archery ranges, billiards, bowling, court games, carting gymnastics, exercise/health clubs, paint ball, roller skating, all with related food and beverage services.
- 15. Truck Terminals
- 16. Vehicle & Trailer Rentals
- 17. Youth social activity clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum of 40,000 square feet in area and shall be not less than 150 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. Building Height
 - 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.

H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the business districts shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and screening and landscape plans.

3.19 P-1 PARK & RECREATION DISTRICT

The P-1 Park District is intended to provide for areas where the recreational needs, both public and private, of the populace can be met without undue disturbance of natural resources and adjacent uses.

- A. <u>Permitted Uses</u>
 - 1. Amphitheaters
 - 2. Amusement Parks
 - 3. Arenas & Field Houses
 - 4. Art Galleries
 - 5. Aquariums
 - 6. Auditoriums
 - 7. Banquet Hall & Event Facilities
 - 8. Boat Rentals & Boat Access Sites
 - 9. Botanical Gardens & Arboretums
 - 10. Community Events
 - 11. Exhibition Halls
 - 12. Fairgrounds
 - 13. Forest Preserve (Wildlife Refuges)
 - 14. Forest Preserves (Wilderness Areas)
 - 15. Golf Course w/o County Club Facilities
 - 16. Golf Driving Ranges
 - 17. Group Organized Camps
 - 18. Gymnasium & Athletic Clubs
 - 19. Historic & Monument Sites

- 20. Ice Skating
- 21. Libraries
- 22. Miniature Golf
- 23. Museums
- 24. Outdoor Concert Events Limited to 4 (four) Per Calendar Year
- 25. Parks: General Recreation
- 26. Parks: Leisure & Ornamental
- 27. Picnicking Areas
- 28. Planetaria
- 29. Playfields or Athletic Clubs
- 30. Playgrounds
- 31. Play Lots or Tot Lots
- 32. Recreation Centers
- 33. Restaurants (with & without a bar)
- 34. Skiing & Tobogganing
- 35. Stadiums
- 36. Swimming Beaches
- 37. Swimming Pools
- 38. Tennis Courts
- 39. Zoos

- B. <u>Permitted Accessory Uses</u>
 - 1. Buildings accessory to permitted recreational uses.
 - 2. Essential services.
 - 3. Offstreet parking areas
 - 4. Retail sales in conjunction with sports and recreation uses
- C. <u>Conditional Uses</u>
 - 1. Cellular and Digital Communication Antennas and Towers
 - 2. Racetracks
 - 3. Outdoor concert events exceeding four (4) per calendar year.
 - 4. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125.
- D. Lot Area & Width
 - 1. Lots in the P-1 Park District shall provide sufficient area for the principal structure and its accessory structures, off-street parking and loading areas, and all required yards.
- E. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed thirty-five (35) feet in height.
- F. <u>Yards</u>
 - 1. No principal building or structure shall be erected, altered, or moved closer than 40 feet to a lotline.
 - 2. Accessory buildings or accessory structures shall be located in side or rear yards and shall be setback a minimum of five (5) feet from a side or rear lot line.
- G. <u>Plan Review</u>

To encourage and ensure that recreational development is environmentally compatible with other uses and the medium-density residential nature and character of the Village of Slinger, Zoning Permits for permitted use in the Park and Recreation District shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.20 I-1 INSTITUTIONAL DISTRICT

The I-1 Institutional District is intended to eliminate the ambiguity of maintaining, in unrelated use districts, areas which are under public or public related ownership and where the use for public purpose is anticipated to be permanent.

- A. <u>Permitted Uses</u>
 - 1. Public or private schools, colleges and universities.
 - 2. Churches.
 - 3. Hospitals, sanatoriums, nursing homes, and clinics.
 - 4. Libraries, museums and art galleries.
 - 5. Public administrative offices, and public service buildings, including fire and police stations.
 - 6. Public utility offices.
 - 7. Water storage tanks and towers.
- B. <u>Permitted Accessory Uses</u>
 - 1. Residential quarters for caretakers or clergy.
 - 2. Garages for the storage of vehicles and equipment used in conjunction with the operation of a permitted use.
 - 3. Off-street parking and loading areas.
 - 4. Service building and facilities normally accessory to permitted uses.
 - 5. Essential services.
- C. <u>Conditional Uses</u>
 - 1. Airports
 - 2. Sewerage Treatment Plants
 - 3. Incinerators
 - 4. Cemeteries
 - 5. Community Living Arrangements
 - 6. Cellular and Digital Communication Antennas and Towers
 - 7. Group Day Care Facilities Licensed by the State
 - 8. Youth Social Activity Clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 70 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

E. <u>Building Height</u>

1. No building or parts of a building shall exceed 35 feet in height.

F. <u>Yards</u>

1. Most restrictive adjacent zoning district.

G. <u>Plan Review</u>

To encourage and ensure that institutional development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the Institutional District shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.21 C-1 CONSERVANCY DISTRICT

The C-1 Conservancy District is intended to be used to prevent destruction of valuable natural or man-made resources and to protect watercourses, including the shorelands of intermittent waters, and areas that are not adequately drained, where development would result in hazards to health or safety, or would deplete or destroy natural resources or be otherwise incompatible with the public welfare.

A. <u>Permitted Uses</u>

- 1. Fishing and trapping.
- 2. Preservation of scenic, historic, and scientific areas.
- 3. Public fish hatcheries.
- 4. Public and private green space areas.
- 5. Recreation trails.
- 6. Sustained yield forestry.
- 7. Stream bank and lakeshore protection.
- 8. Water retention and wildlife preserves.
- 9. Continuation of farming, provided that no farm structures are erected, altered, or moved into the Conservancy District and further provided that cultivated areas are not extended.

B. <u>Permitted Accessory Uses</u>

- 1. Structures used in or accessory to a fish hatchery.
- 2. Non-habitable park and recreation shelters.
- 3. Structures used to traverse lowlands or watercourses.

C. <u>Conditional Uses</u>

1. Limited Recreational Uses

3.22 F-1 FLOODPLAIN CONSERVANCY

The F-1 Floodplain District is intended to preserve, essentially green space and natural use lands which are unsuitable for intensive development purposes due to poor natural soil conditions and periodic flood inundation and shall include all land and water area lying within the delineated forecast 100-year recurrence interval flood. The proper regulation of these areas will serve to maintain and improve water quality, prevent flood damage, protect wildlife habitat, and prohibit the location of structures on soils which are generally not suitable for such use.

- A. <u>Permitted Uses</u>
 - 1. Drainage
 - 2. Movement of floodwater.
 - 3. Navigation.
 - 4. Stream bank protection.
 - 5. Water measurement and control facilities.
 - 6. Any of the following uses are permitted provided that such use shall not involve the erecting or placing of a structure:
 - (a) Grazing.
 - (b) Horticulture.
 - (c) Open Parking and Loading Areas.
 - (d) Open recreational uses, such as parks, sport fields, beaches, bathing, hunting, fishing, rinks, golf courses, and driving ranges.
 - (e) Outdoor plant nurseries.
 - (f) Pasturing.
 - (g) Sod farms.
 - (h) Truck farming.
 - (i) Utilities.
 - (j) Viticulture (grape growing).
 - (k) Wildlife preserves.

B. <u>Conditional Uses</u>

The Village Plan Commission may authorize a conditional use permit in accordance with Section 4.00 of this code provided that such conditional uses and structures are found to be in accordance with the purpose and intent of this district and Chapter NR 116 of the Wisconsin Administrative Code. The applicant must show that such use of improvement will not impede drainage, will not cause ponding, will not obstruct the floodway, will not increase flood flow velocities, will not increase the flood stage, and will not retard the movement of floodwater. When permitted, all structures shall be floodproofed and constructed so as not to catch or collect debris nor be damaged by floodwater. Certification of floodproofing of a plan or document

certified by a registered professional engineer that the floodproofing measures are consistent with the flood velocities, forces, depths, and other factors associated with the 100-year recurrence interval flood level for the particular area.

Such uses shall include:

- 1. Navigational structures.
- 2. Bridges and approaches.
- 3. Marinas.
- 4. Park and recreational areas not including structures.
- 5. Filling as authorized by the Wisconsin Department of Natural Resources to permit establishment of approved bulkhead lines.
- 6. Other green space uses consistent with the purpose and intent of the district and compatible with uses in adjacent districts, not including structures.
- 7. Municipal Water Supply & Sanitary Sewerage Systems, provided that the system is floodproofed to an elevation at least two (2) feet above the elevation of the 100-year recurrence interval flood, and is designed to eliminate or minimize infiltration of floodwater into the system. Certifications of floodproofing shall be made to the Zoning Administrator, and shall consist of a plan or document certified by a registered professional engineer that the floodproofing measures are consistent with the flood velocities, forces, depths, and other factors associated with the 100-year recurrence interval lever for the particular stream reach.
- C. <u>Dumping & Filling Prohibited</u>

Lands lying within the Floodplain District shall not be used for dumping or be filled except as authorized to permit establishment of approved bulkhead lines or to accommodate bridge approaches. Normal earth grading activities to permit utilization of the lands for green space, outdoor recreation, yard, parking, and similar uses are permitted.

D. <u>Dangerous Materials Storage Prohibited</u>

Lands lying within the Floodplain District shall not be used for the storage of materials that are buoyant, flammable, explosive, or injurious to human, animal, or plant life.

E. <u>Incompatible Use Prohibited</u>

Lands lying within the Floodplain District shall not be used for any solid waste disposal site or on-site soil absorption sanitary sewerage system site, or the construction of any well which is used to obtain water for ultimate human consumption.

F. <u>Floodplain Ordinance</u>

See Appendix A

3.23 HISTORIC PRESERVATION DISTRICT (RESERVED)

3.24 GROUNDWATER PROTECTION OVERLAY DISTRICT

The Village Board of the Village of Slinger recognizes that the people of the Village of Slinger depend exclusively on groundwater for a safe drinking water supply and that certain land uses in the Village of Slinger environmental setting can seriously degrade water quality. Therefore, the designated best use of the unconfined groundwater of the Village of Slinger is for public and private water supply and it is the policy of the Village to maintain its groundwater resources as near to the natural condition of purity as reasonably possible for the safeguarding of the public health, safety, and welfare.

The purpose of the Groundwater protection Overlay District is to protect key groundwater recharge areas by imposing appropriate land-use restrictions in these areas. Wisconsin Act 410, 1983, specifically includes groundwater protection among the purposes for which local zoning power may be exercised. The restrictions included herein are in addition to those of the underlying zoning districts or any other provisions of the zoning or other Village ordinance.

A. <u>Designation of Municipal or Private Well Field Groundwater Protection Zones</u>

The boundaries for the groundwater recharge protection zones for the groundwater Protection Overlay District are as shown on the map "Groundwater Protection Districts for the Village of Slinger Well Fields" dated February 24, 1993. (See Fig. A1 for examples of proposed wellhead protection zones for Well Field #5).

Said map is hereby adopted by reference becoming a part of this ordinance as if the map were fully described herein. The goundwater recharge basins for the designated well fields are divided into three zones reflecting the potential for land-use activities to adversely impact the well fields and the subsequent scope of land-use restrictions needed.

B. Zone A - Groundwater Protection Overlay District

- 1. Zone A is the immediate area around the well field, commonly known as the cone of depression, in which groundwater elevations are lowered by pumping. This area is subject to the highest contaminant threat, and therefore, the land use restrictions are the most severe of the recharge zones.
- 2. The following uses are permitted:
 - (a) Parks/Playgrounds
 - (b) Archery Ranges
 - (c) Boat Landings

- (d) Other Natural Uses Wildlife Areas Wild Crops Non-Motor Trails (Bike, Skiing, Nature, Fitness) Hunting/Fishing/Trapping
- 3. The following uses are permitted upon proper application as provided in this ordinance, only after such use shall have been approved in writing by the Planning Commission. Such approval shall be consistent with the general purpose and intent of this ordinance and shall be based upon evidence as may be presented at such public hearings, tending to show the desirability of specific uses from the standpoint of the public interest because of such factors as (without limitation because of enumeration) groundwater pollution, smoke, dust, noxious or toxic gases and odors, noise, glare, vibration, operation of heavy machinery, heavy vehicular traffic, increased traffic on the streets and other safety and health factors; such uses shall meet the specific conditions attached below and such other conditions as the Plan Commission deems necessary in furthering the purpose of this ordinance.
- 4. The following use is expressly prohibited in this zone:
 - (a) All uses not permitted or special exception in this section.
- 5. The following standards apply to all uses in Zone A of the Groundwater Protection Overlay District:
 - (a) On-site sanitary system with any type of discharge on lots less than 40,000 sq. ft.
 - (b) Underground tanks prohibited.
 - (c) Natural vegetation not treated with fertilizers and pesticides A minimum of 85% of lot must be retained in natural vegetation.
 - (d) Lot Size 40,000 sq. ft. per residential unit. Multiple family units and cluster developments may increase density by 50% if restrictive covenant maintains natural vegetation requirement.
 - (e) Pesticide/fertilizer storage and use (including septage and sludge landspreading) Prohibited except for normal home use and by special case-by-case review.
 - (f) Animal waste facility or landspreading prohibited.
 - (g) Stormwater and drain discharge direct subsurface drainage prohibited. Discharge of hazardous materials prohibited. All surface runoff and drain construction must provide a means for collection or containment in the event of a hazardous materials spill.
 - (h) Salt storage prohibited.
 - (i) Hazardous/toxic materials storage and use prohibited except for normal home use.
 - (j) Hazardous/toxic wastes on-site treatment, transfer, or disposal prohibited.
- C. Zone B Groundwater Protection Overlay District
 - 1. Zone B is the recharge area up-gradient of Zone A to the point where it is

estimated that groundwater and contaminants will take five (5) years to reach the pumping well(s). This is an intermediate zone and land use measures are slightly less restrictive than Zone A because of the longer flow times and greater contaminant dilution and attenuation potential.

- 2. The following uses are permitted:
 - (a) Residential
 - (b) Parks/Playgrounds
 - (c) Shooting Ranges
 - (d) Boat Landings
 - (c) Campgrounds
 - (d) Natural Uses -

Wildlife Areas, Wild Crops, Non-Motor Trails (Bike, Skiing, Nature, Fitness) Hunting/Fishing/Trapping

- 3. The following uses are permitted upon proper application as provided in this ordinance, particularly items (a) and (b) of Subparagraph 6.6.2(A)(3), only after such use shall have been approved in writing by the Planning Commission, after Public Hearing. Such approval shall be consistent with the general purpose and intent of this ordinance and shall be based upon evidence as may be p resented at such Public Hearing, tending to show the desirability of specific uses from the standpoint of the public interest because of such factors as (without limitation because of enumeration) groundwater pollution, smoke, dust, noxious or toxic gases and odors, noise, glare, vibration, operation of heavy machinery, heavy vehicular traffic, increased traffic on the streets and other safety and health factors; such uses shall be required to conform with the plan approved by the Plan Commission and shall meet the specific conditions attached below and such other conditions as the Plan Commission deems necessary in furthering the purpose of this ordinance.
 - (a) All uses not permitted or prohibited in this section.
- 4. The following uses are expressly prohibited in this zone:
 - (a) Landfills
 - (b) Feedlots
 - (c) Wastewater Treatment Facilities
 - (d) Junkyard
 - (e) Gas Stations/Garages
 - (f) Toxic/Hazardous Waste Facilities
 - (g) Radioactive Waste Facilities
 - (h) Bulk Fertilizer/Pesticide Facilities
 - (i) Asphalt Products Manufacturing
 - (j) Chemical Manufacture/Storage/Sale
 - (k) Dry Cleaning Facilities
 - (l) Electroplating Facilities

- (m) Exterminating Shops
- (n) Paint/Coating Manufacturing
- (o) Printing/Publishing Facilities
- (p) All Uses Requiring Use or Storage of Hazardous of Toxic Materials
- 5. The following standards apply to all uses in Zone B of the Groundwater Protection Overlay District:
 - (a) On-site sanitary system with any type of discharge for residential use: One system per one (1) acre.
 - (b) Underground tanks tanks less than 500 gallons are prohibited; other tank installations require monitoring wells, overflow prevention, corrosion-resistant construction, monthly reports and inspections, and spill/leak contingency plan.
 - (c) Natural vegetation not treated with fertilizers and pesticides a minimum of 80% of lots with on-site sewage disposal must be retained in natural vegetation. A minimum of 60% of lots with municipal sewer must be retained in natural vegetation. A minimum of 60% of lots with municipal sewer must be retained in natural vegetation.
 - (d) Lot size for residential uses 20,000 sq. ft. per unit with municipal sewer, or one (1) acre with on-site sewage disposal. Multiple family and cluster developments may increase density by 50% if restrictive covenant maintains natural vegetation requirement in sewered areas or increases area of natural vegetation by 10% over minimum requirement in unsewered areas.
 - (e) Lot size for other uses one (1) acre minimum subject to (1) above.
 - (f) Pesticide/fertilizer storage and use (including septage and sludge landspreading) - prohibited except for normal home use or where an agricultural best-management practices plan approved by the county Land Conservation Department guides usage.
 - (g) Animal waste facility or landspreading waste facilities must be permitted under the Portage County Animal Waste Management Ordinance. A best-management practices plan approved by the county Land Conservation Department guides usage.
 - (h) Stormwater and drain discharge direct subsurface drainage prohibited. Discharge of hazardous materials prohibited. All surface runoff and drain construction must provide a means for collection or containment in the event of a hazardous materials spill.
 - (i) Salt storage prohibited.
 - (j) Hazardous/toxic materials storage and use prohibited except for normal home use (also see (6) above).
 - (k) Hazardous/toxic wastes on-site treatment, transfer, or disposal prohibited.

3.25 PUD - PLANNED UNIT DEVELOPMENT OVERLAY DISTRICT

The PUD - Planned Unit Development Overlay District is intended to permit developments that will, over a period of time, be enhanced by coordinated area site planning, diversified location of structures, diversified building types, and/or mixing of compatible uses. Such developments are intended to provide a safe and efficient system for pedestrian and vehicle traffic; to provide attractive recreation and green spaces as integral parts of the developments; to enable economic design in the location of public and private utilities and community facilities; and to ensure adequate standards of construction and planning. The PUD Overlay District under this ordinance will allow for flexibility of overall development design with benefits from developer and the community, while at the same time maintaining insofar as possible, the land use density and other standards, or use requirements set forth in the underlying basic zoning district.

A. <u>Permitted Uses</u>

Uses permitted in a Planned Unit Development Overlay District shall conform to uses generally permitted in the underlying basic use district. Individual structures shall comply with the specific building area and height requirements of the underlying basic use district. All green space and parking requirements of the underlying basic use district shall be complied with either individually or by providing the combined green space and parking space required for the entire development in one (1) or more locations within the development.

B. <u>Minimum Area Requirements</u>

1. The Village Plan Commission shall be the authority in establishing the required size of any Planned Unit Development Overlay District. Areas designated as such shall be under single or corporate ownership or control, and shall contain a minimum development area of:

Principal Uses		Minimum Area of PUD
(a)	Residential PUD	2 Acres
(b)	Business PUD	3 Acres
(c)	Industrial PUD	10 Acres
(d)	Mixed Compatible Use	5 Acres

C. <u>Procedural Requirements</u>

- 1. <u>Pre-Petition Conference.</u> Prior to the official submission of the petition for the approval of a Planned Unit Development Overlay District, the owner or his agent making such petition shall meet with the Village staff to discuss the scope and proposed nature of the contemplated development.
- 2. <u>Petition.</u> Following the pre-petition conference, the owner or his agent may file a petition, including the information contained on the "PUD Petition Form," available at the Village Offices with the Village Clerk for approval of

a Planned Unit Development Overlay District. Such petition shall be accompanied by a review fee, as required by the Village Board pursuant to Section 14.01 of this ordinance.

- 3. <u>Referral to Plan Commission</u>. The petition for a Planned Unit Development Overlay District shall be referred to the Village Plan Commission for its review and recommendation, including any additional conditions or restrictions which it may deem necessary or appropriate.
- 4. <u>Public Hearing</u>. The Village Plan Commission shall hold a Public Hearing pursuant to the requirements of Section 12.00 and 13.00 of this ordinance. Notice for such hearing shall include reference to the development plans filed in conjunction with the requested Planned Unit Development Overlay District. As soon as is practical following the hearing, the Plan Commission shall report its findings and recommendations to the Village Board. Said recommendations shall be included in the form of a "PUD Development Agreement" to be entered into between the Village Board and the Developer.

D. Basis for Approval of the Petition

The Village Plan Commission in making its recommendation, and the Village Board in making its determination, shall consider:

- 1. That the petitioners for the proposed Planned Development Overlay District have indicated that they intend to begin the physical development of the PUD within nine (9) months following the approval of the petition and that the development will be carried out according to a reasonable construction schedule satisfactory to the Village.
- 2. That the proposed Planned Unit Development Overlay District is consistent in all respects to the purpose of this Section and to the spirit and intent of this ordinance; is in conformity with the adopted Master Plan or any adopted component thereof; and that the development would not be contrary to the general welfare and economic prosperity of the community.

The Village Plan Commission in making its recommendations, and the Village Board in making its determination shall further find that:

- (a) The proposed site shall be provided with adequate drainage facilities for surface and storm waters.
- (b) The proposed site shall be accessible from public roads that are adequate to carry the traffic that can be expected to be generated by the proposed development.
- (c) No undue constraint or burden will be imposed on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas by the proposed development.

- (d) The streets and driveways on the site of the proposed development shall be adequate to serve residents of the proposed development and shall meet the minimum standards of all applicable ordinances or administrative regulations of the Village.
- (e) Centralized water and sewer facilities shall be provided.
- (f) The entire tract or parcel of land to be included in a Planned Unit Development Overlay District shall be held under single ownership, or if there is more than one (1) owner, the petition for such Planned Unit Development Overlay District shall be considered as one (1) tract, lot, or parcel; and the legal description must define said PUD as a single parcel, lot, or tract and be so recorded with the Register of Deeds for Washington County.

That in the case of a proposed *Residential* Planned Unit Development Overlay District:

- (a) Such development will create an attractive residential environment of sustained desirability and economic stability, including structures in relation to terrain, consideration of safe pedestrian flow, ready access to recreation space, and coordination with overall plans for the community.
- (b) The total net residential density within the Planned Unit Development Overlay District will be consistent with, and not exceed the average intensity and density of development permitted in the underlying basic use district. Conservancy and Floodplain Conservancy Districts shall not comprise more than thirty (30) percent of the underlying zoning district green space requirement.
- (c) Provision has been made for the installation of adequate public facilities, and the continuing maintenance and operation of such facilities.
- (d) Adequate, continuing fire and police protection is available.
- (f) The population composition of the development will not have an adverse affect upon the community's capacity to provide needed school, or other municipal service facilities.
- (g) Adequate guarantee is provided for permanent preservation of green space areas as shown on the approved Site Plan, either by private reservation and maintenance, or by dedication to the public.

That in the case of a proposed Business Planned Unit Development Overlay District:

- (a) The proposed development will be adequately served by offstreet parking and truck service facilities.
- (b) The proposed development shall be adequately provided with and shall not impose any undue burden on public services and facilities such as fire and police protection, street maintenance, and maintenance of public areas.

- (c) The locations for entrances and exits have been designated to prevent unnecessary interference with the safe and efficient movement of traffic on surrounding streets, and the development will not create an adverse effect upon the general traffic pattern of the surrounding neighborhood.
- (d) The architectural design, landscaping, control of lighting, and general site development will result in an attractive and harmonious service area compatible with, and not adversely affecting the property values of the surrounding neighborhood.

That in the case of a proposed *Industrial* Planned Unit Development District:

- (a) The operational character, physical plant arrangement, and architectural design of buildings will be compatible with the latest in performance standards and industrial development design and will not result in adverse effect upon the property values of the surrounding neighborhood.
- (b) The proposed development shall be adequately provided with and shall not impose any undue burden on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas.
- (c) The proposed development will include adequate provisions for offstreet parking and truck service areas and will be adequately served by rail and/or arterial highway facilities.
- (d) The proposed development is properly related to the total transportation system of the community and will not result in an adverse effect on the safety and efficiency of the public streets.
- (e) No residential structures shall be permitted in an Industrial PUD.

That in the case of a *Mixed Use* Planned Unit Development Overlay District:

- (a) The proposed mixture of uses produces a unified composite which is compatible within the underlying district and which, as a total development entity is compatible with the surrounding neighborhood.
- (b) The various types of uses conform the general requirements as hereinbefore set forth, applicable to projects of such use and character.
- (c) The proposed development shall be adequately provided with, and shall not impose any undue burden on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas.

E. <u>Determination</u>

The Village Board, after due consideration, may, upon the recommendation of the Planning Commission, deny the petition, approve the petition as submitted, or approve the petition subject to additional conditions and restrictions. The approval of a Planned Unit Development Overlay District shall be based upon and include as conditions thereto the building, site and operational plans for the development as approved by the Village Board.

F. Changes & Additions

- 1. <u>Preliminary Determination</u>. All proposed changes, revisions, and additions to any aspect of an approved Planned Unit Development project shall be submitted to the Zoning Administrator for review. The Zoning Administrator, in collaboration with the Village Engineer, Village Planner, and Village Administrator, shall review the proposed change to determine if it would be considered a minor change or a major change. In making their determination, Village staff shall consider if the proposed change would substantially affect the intended design of the project or would adversely affect nearby properties or nearby uses.
- 2. <u>Minor Changes</u>. If the change is determined to be minor, Village staff shall collaboratively review the request and may deny or approve the change without approval by the Planning Commission. The Planning Commission shall be fully informed of the proposed change at a meeting subsequent to the decision by staff to deny or approve any minor change.
- 3. <u>Major Change</u>. If the requested change is determined by Village Staff to be a major change because of its affect on the intended design of the project or on neighboring uses, a public hearing shall be held by the Planning Commission to review the request. The Commission's recommendation shall be forwarded to the Village Board for final action.

G. <u>Subsequent Land Division</u>

The division of any land or lands within a Planned Unit Development Overlay District for the purpose of change or conveyance of ownership shall be accomplished pursuant to the land division regulations of the Village and when such division is contemplated, a Preliminary Plat of the lands to be divided shall accompany the petition for PUD approval.

H. <u>Recordation of Permit</u>

Following approval by the Village Board, said Planned Unit Development Agreement shall be recorded as a covenant running with the land. Cost of recording shall be borne by the petitioner.

3.26 CONSERVATION SUBDIVISION OVERLAY (CSO) DISTRICT

- A. <u>Purpose</u>. The Conservation Subdivision Overlay (CSO) District is established for the following purposes:
 - 1. To provide an Overlay District that may be used in conjunction with an underlying Residential Zoning District to promote development of Conservation Subdivisions.
 - 2. To preserve environmentally sensitive lands through permanent preservation of open space and natural resources with housing concentrated on portions of the site that have lower quality natural features.
 - 3. To provide open space areas that are commonly owned for passive and/or active recreational use by residents of the development, and where specifically established, for use by the general public.
 - 4. To minimize disturbance to environmentally sensitive areas, protect biological diversity, and maintain environmental corridors in their natural state to the extent practical.
 - 5. To preserve scenic views by minimizing views of new development from existing roads.
 - 6. To provide buffering between residential development and non-residential uses.
- B. <u>Definition of Conservation Subdivision</u>. A Conservation Subdivision is a housing development characterized by extensive open space where existing natural features of the land are maintained in their natural state to the extent practical. Residential dwellings in such subdivisions are located on portions of the site with lower quality natural features and should be adjacent to or overlook open space.
- C. <u>Platting Methods and Applicability of Other Regulations</u>. Conservation Subdivisions may be created by platting methods including Certified Survey Maps (CSM's) subdivision plats, or condominium plats. All of the Village's Land Development regulations applying to each of the platting methods shall be applicable to a Conservation Subdivision, except as may be permitted in this Section.
- D. <u>Uses</u>. In a Conservation Subdivision, the underlying Zoning District shall determine allowable uses.
- E. <u>Density and Lot Size Standards</u>. The maximum density of a Conservation Subdivision shall be determined by applying the minimum lot area in the underlying Zoning District to the entire parcel proposed for development. The minimum lot area in a Conservation Subdivision may be less than that required in the underlying District, but shall not be less than 10,000 square feet with sanitary sewer service, or not less than 30,000 square feet without sanitary service.

- F. <u>Setback and Yards</u>. The minimum setback and yard requirements in the underlying Zoning District may be modified in a Conservation Subdivision to provide flexibility in the siting of homes relative to the attributes of the individual lots or sites in the development. These requirements shall be established on an individual development basis and shall be determined prior to final plat approval. The minimum setback and yard requirements shall be shown on the final plat or CSM.
- G. <u>Minimum Living Area and Maximum Building Height</u>. Shall be as established in the underlying Zoning District.
- H. <u>Common Open Space</u>. A Conservation Subdivision shall provide Common Open Space as follows:
 - 1. A minimum of 40% of the subject parcel shall be common open space which shall be platted as one or more Outlots. Wetalnds, floodplains, floodways, ponds or natural water bodies may constitute a maximum of 60% of the minimum common open space area.
 - 2. Prior to any final approval action on a Conservation Subdivision, the Village Park Board shall review the proposed Common Open Space to determine if any public parklands or any other public land dedication is necessary in conjunction with the Conservation Subdivision.
 - 3. The ownership, maintenance, and stewardship of Common Open Space shall be accomplished by a Homeowners Association and/or Condominium Association in accord with Chapter 703 of Wisconsin Statutes. The subdivision applicant shall provide a description of the Bylaws of the proposed Association, and all documents governing the ownership, maintenance, and use restriction for common facilities. The Association shall be established by the owner of the subdivision developer prior to the sale of any lots or dwelling units in the development. All documents to establish such Association shall be approved by the Village Attorney prior to their use by the developer.
 - 4. No such Owner's Association shall be allowed to default and result in the Common Open Space being owned and maintained by the public.
 - 5. Each unit owner in a Conservation Subdivision shall have an undividable fractional ownership interest in the Common Open Space outlot(s).
 - 6. A deed restriction shall be established to prevent subdividing any Common Open Space which is part of a Conservation Subdivision.
 - 7. A Landscaping Plan and a Maintenance Plan for Common Open Space areas shall be approved by the Planning Commission prior to final plat approval.
 - 8. Any amendments to the Common Open Space documents after their initial approval shall be reviewed and approved by the Village Attorney prior to such amendments taking effect.
 - 9. The following uses are permitted in Common Open Space areas:
 - a. Conservation of open land in its natural state (for example, woodland, fallow field, or managed meadow).

- b. Silviculture, in keeping with established standards for selective harvesting and sustained-yield forestry.
- c. Neighborhood open space uses such as common areas, picnic areas, community gardens, trails, and similar low-impact passive recreational uses specifically excluding motorized off-road vehicles, rifle ranges, and other uses similar in character and potential impact as determined by the Planning Commission.
- d. Active non-commercial recreation areas, such as playing fields, playgrounds, courts, and bikeways, provided such areas do not encroach on environmentally sensitive areas. Playing fields, playgrounds, and courts shall not be located within 50 feet of abutting properties. Parking facilities for the same shall also be permitted.
- e. Golf courses may comprise the open space land. Their parking areas and any associated structures shall not be included within the minimum open space requirement; their parking and access ways may be paved and lighted.
- f. Water supply, water sources for the fire protection, sewage disposal system, and stormwater detention areas designed, landscaped, and available for use as an integral part of the open space.
- g. Easements for drainage, access, or other public purposes.
- h. Underground utility rights-of-way and street rights-of-way may traverse Common Open Space areas but shall not count toward the minimum required open space land.
- i. Agricultural uses limited to the growing of crops outdoors including nurseries, sod farms, orchards, forestry, commercial vegetables, and crops for livestock consumption, but not including dairying or the raising and feeding of livestock and poultry.
- j. Public use of Common Open Space may be allowed if agreed to by the Developer and the Village.
- I. Required Improvements and Design Standards. Required improvements and design standards related to Conservation Subdivisions may be modified to create a lower impact on the natural environment and provide a greater degree of environmental protection. Infrastructure requirements and modifications shall be reviewed on an individual development basis to determine the appropriate infrastructure based on each site's unique attributes.
- J. <u>Financial Guarantees and Impact Fees</u>. Financial guarantees, including those required as part of a Conventional Subdivision Development Agreement, and impact fees, shall be applied to a Conservation Subdivision.

3.27 SHORELAND ZONNG OVERLAY DISTRICT

A. <u>Purpose and Statutory Authorization</u>. Uncontrolled use of shorelands and pollution of the navigable waters of the municipality would adversely affect the public health, safety, convenience, and general welfare and impair the tax base. The Legislature of Wisconsin has delegated responsibility to all municipalities to:

1. Promote the public health, safety, convenience and general welfare;

2. Limit certain land use activities detrimental to shorelands, and

3. Preserve shore cover and natural beauty by controlling the location of structures in shoreland areas and restricting the removal of natural shoreland vegetation.

This ordinance is adopted pursuant to the authorization in Wisconsin Stat. Sec. 61.35 and 61.353 and Year 2013 Wisconsin Act 80.

B. General Provisions.

1. Compliance & Uses. The use of shorelands within the shoreland area of the municipality shall be in full compliance with the terms of this ordinance and other applicable local, state, or federal regulations. All permitted development shall require the issuance of a zoning permit unless otherwise expressly excluded by a provision of this ordinance.

Permitted uses, accessory uses, and conditional uses shall be in accord with underlying zoning district regulations except as may be regulated or restricted in this Section.

2. Municipalities & State Agencies Regulated. Unless specifically exempted by law, all cities, villages, towns, and counties are required to comply with this ordinance and obtain all necessary permits. State agencies are required to comply if Wis. Stat. Sec 13.48 (13) applies.

3. Abrogation & Greater Restrictions. This ordinance supersedes all the provisions of any other applicable municipal ordinance except that where another municipal ordinance is more restrictive than this ordinance, that ordinance shall continue in full force and effect to the extent of the greater restrictions, but not otherwise.

This ordinance is not intended to repeal, abrogate or impair any existing deed restrictions, covenants or easements. However, where this ordinance imposes greater restrictions, the provisions of this ordinance shall prevail.

4. Interpretation. In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements and shall be liberally construed in favor of the municipality and shall not be deemed a limitation or repeal of any other powers granted by the Wisconsin Statutes or Wisconsin Constitution.

5. Severability. Should any portion of this ordinance be declared invalid or unconstitutional by a court of competent jurisdiction, the remainder of this ordinance shall not be affected.

6. Applicability of Shoreland district Regulations. The Shoreland Zoning District regulations apply only to the following shorelands:

a. A shoreland that was annexed by the Village of Slinger after May 7, 1982, and that prior to annexation was subject to a county shoreland zoning ordinance under Wis. Stat. Sec 59.692; and

b. A shoreland that before incorporation by the Village of Slinger was part of a town that was subject to a county shoreland zoning ordinance under Wis. Stat. Sec. 59.692 if the date of the incorporation was after April 30, 1994.

C. <u>District Boundaries</u>. The Shoreland District areas regulated by this ordinance shall include all the lands (referred to herein as shorelands) in the Village of Slinger that are:

1. Within 1,000 feet of the ordinary high water mark of navigable lakes, ponds or flowages. Lakes, ponds or flowages shall be presumed to be navigable if they are listed in the Wisconsin Department of Natural Resources Surface Water Data viewer available on the DNR website, or are shown on United States Geological Survey quadrangle maps or other zoning maps.

2. Within 300 feet of the ordinary high water mark of navigable rivers or steams, or to the landward side of the floodplain, whichever distance is greater. Rivers and streams shall be presumed to be navigable if they are designated as continuous waterways or intermittent waterways on United States Geological Survey quadrangle maps. Flood hazard boundary maps, flood insurance rate maps, flood boundary-floodway maps, county soil survey maps or other existing county floodplain zoning maps shall be used to delineate floodplain areas.

3. Determinations of navigability and ordinary high water mark location shall initially be made by the Zoning Administrator. When questions arise, the Zoning Administrator shall contact the appropriate district office of the Wisconsin Department of Natural Resources for a final determination of navigability or ordinary high water mark.

4. Pursuant to Wis. Stat. Sec. 61.353(7) or 62.233, the Shoreland Zoning District does not include lands adjacent to an artificially constructed drainage ditch, pond, or retention basin if the drainage ditch, or retention basin is not hydrologically connect to a natural navigable water body.

D. <u>Effect of Existing land Division, Sanitary, Zoning & other Regulations</u>. The lands within the Shoreland Zoning District are subject to all applicable provisions of the Village of Slinger Municipal Code. Where the provisions of this ordinance are more restrictive than other regulations in the Municipal code, the provisions of this ordinance shall apply.

E. Setbacks from the OHWM.

1. Principal Building Setbacks.

a. All principal building shall be set back at least 50 feet from the ordinary high water mark.

b. Adjustment of Shore Yards. A setback less than that required by subsection E.1. a. may be allowed if all of the following apply:

1. The principal building is constructed or placed on a lot or parcel of land that is immediately adjacent on each side to a lot or parcel of land containing a principal building; and

2. The principal building is constructed or placed within a distance equal to the average setback of the principal building on the adjacent lots or 35 feet from the ordinary high water mark, whichever distance is greater.

2. Accessory Building Setbacks.

Buildings accessory to permitted and conditional uses may be located within a shoreyard but:

- a. Shall not be closer than 25 feet to the ordinary high water mark.
- b. Shall not be used for human habitation or animal shelter.
- c. Shall not be placed in the vegetative buffer zone required in Section F.

F. <u>Vegetative Buffer Zone</u>. Pursuant to Wis. Stat. Sec 61.353(3), a landowner shall maintain a vegetative buffer zone as follows:

1. A person who owns shoreland property that contains vegetation shall maintain that vegetation in a vegetative buffer zone along the entire shoreline of the property and extending 35 feet inland from the ordinary high water mark of the navigable water, except as provided in Section F. 2.

2. If the vegetation in a vegetative buffer zone contains invasive species or dead or diseased vegetation, the owner of the shoreland property may remove the vegetation, except that if the owner removes all of the vegetative buffer zone, the owner shall establish a vegetative buffer zone with new vegetation.

3. A person who is required to maintain or establish a vegetative buffer zone under viewing or access corridor that is no greater than 30 feet wide for every 100 feet of shoreline frontage and extends no more than 35 feet inland from the ordinary high water mark. On parcels with less than 100 feet of shoreline frontage, the width of the vegetative buffer zone shall be a minimum of 30% of the shoreline frontage.

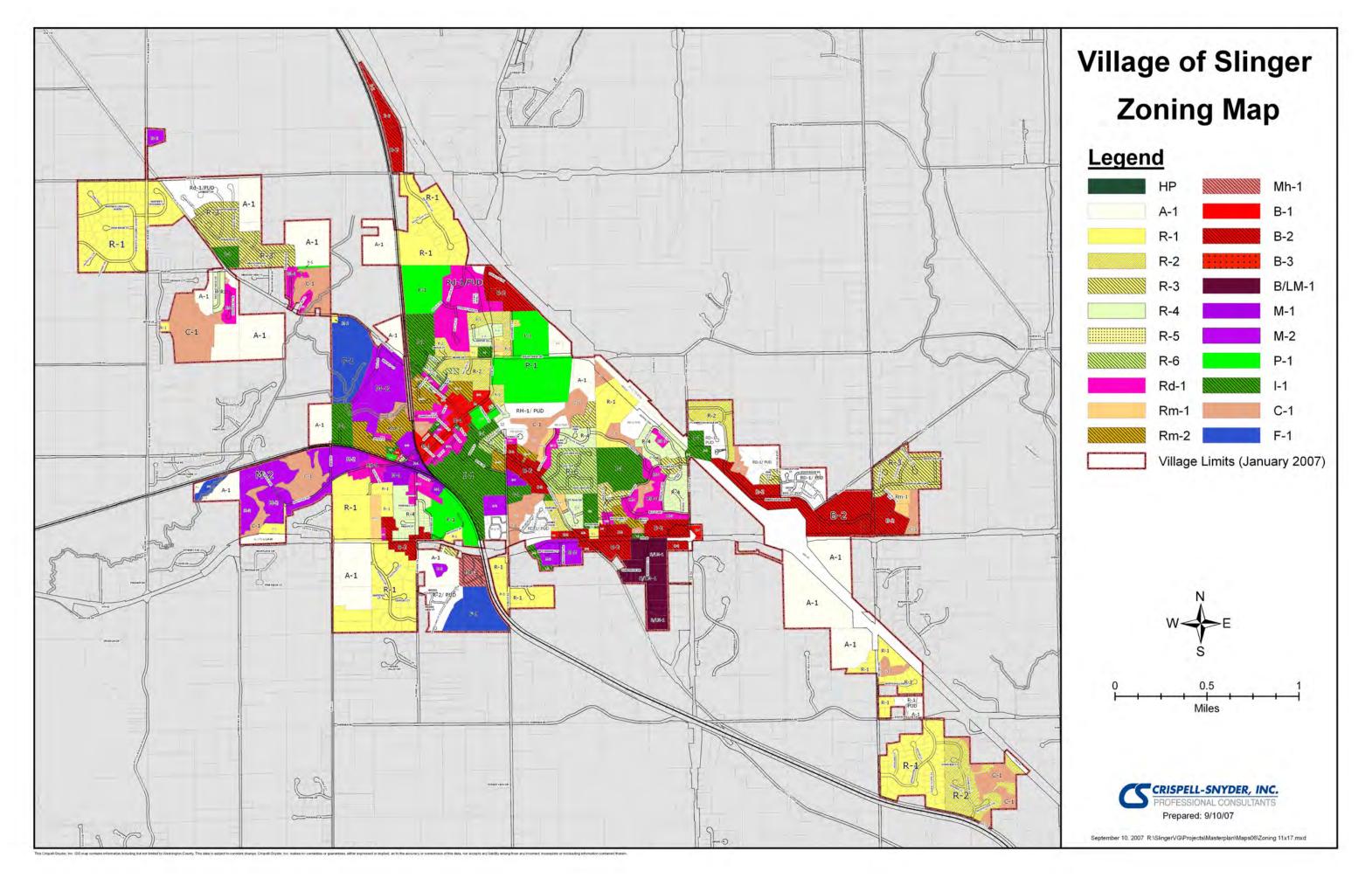
G. Definitions. In this ordinance:

1. "Ordinary High Water Mark" (OHWM) is the boundary along the bank or shoreline up to which the water, by its presence, flow or wave action, leaves a distinct mark on the bank or shoreline. The OHWM may be indicated by erosion, destruction of or change in vegetation or other easily recognizable characteristics. The OHWM may be delineated on subdivision plats, certified survey maps or other survey documents.

2. "Principal Building" means the main building or structure on a single lot or parcel of land and includes any attached garage or attached porch.

3. "Shorelands" has the meaning given in Wis. Stat. Sec. 59.692 (1)(b).

4. "Shoreland setback area" has the meaning given in Wis. Stat. Sec 59.692(1)(bn).



Village of Slinger Comprehensive Plan – Implementation Element

CHAPTER XXXI ZONING ORDINANCE VILLAGE OF SLINGER, WASHINGTON COUNTY, WISCONSIN

ARTICLE 3.00 ZONING DISTRICTS

3.01 ESTABLISHMENT

A. Zoning Districts

For the purpose of this ordinance, the Village of Slinger is hereby divided into the following zoning districts:

- A-1 Agricultural/Transitional District
- R-1 Single-Family Residential District
- R-2 Single-Family Residential District
- R-3 Single-Family Residential District
- R-4 Single-Family Residential District
- R-5 Single-Family Residential District
- R-6 Single-Family Residential District
- Rd-1 Two-Family Residential District
- Rm-1 Multiple-Family Residential District
- Rm-2 Multiple-Family Residential District
- Mh-1 Mobile Home Park Residential District
- B-1 Commercial District
- B-2 Commercial District
- B-3 Commercial District
- B&LM-1 Business and Light Manufacturing District
- M-1 Limited Manufacturing District
- M-2 General Manufacturing District
- P-1 Park & Recreation District
- I-1 Institutional District
- C-1 Conservancy District
- F-1 Floodplain Conservancy
- HP Historic Preservation (Reserved for Future Use)
- GP Groundwater Protection (Overlay District)
- PUD Planned Unit Development Overlay District
- COS Conservation Subdivision Overlay

B. <u>Designation of Boundaries</u>

Boundaries of these districts are hereby established as shown on the map entitled "Zoning Map - Village of Slinger, Wisconsin" dated June 17, 1996, which accompanies and is herewith made a part of this ordinance. Such boundaries shall be construed to follow corporate limits, U.S. Public Land Survey lines, lot property lines, centerlines of streets, highways, alleys, easements, railroad rights-of-way or such lines extended, and the limits of delineated Conservancy areas unless otherwise noted on the Zoning Map. The floodplain limits are based on the limits shown on the Flood Hazard Boundary Map published by the Federal Emergency Management Agency (FEMA), dated October 21, 1977, and additional interpretations made by the staff of the Southeastern Wisconsin Regional Planning Commission in May 1981. The floodplain limits are further depicted on the Village of Slinger large-scale (1" = 200', 2' contour interval) topographic maps prepared for the Village by Owen Ayres and Associates, Inc., from aerial photography taken on April 22, 1980.

C. <u>Zoning of Annexed Areas</u>.

- 1. <u>Temporary Zoning</u>. The Village Board shall refer to the Planning Commission for a recommendation regarding the temporary zoning classification for any land being considered for annexation, and shall include in the annexation ordinance a provision designating a temporary zoning district classification for such area.
- 2. <u>Permanent Zoning</u>: If the intended land use is known at the time of annexation, or as soon as practical after the annexation is final, the permanent zoning classification for the annexed area shall be established by zoning amendment pursuant to S62.23 (7) (d) stats.
- 3. <u>Floodplains</u>. At the time of annexation, floodplain areas shall be zoned to the F-1 Floodplain Conservancy District.
- 4. <u>Wetlands</u>. At the time of annexation, wetland areas shall be zoned to the C-1 Conservancy District.

3.02 ZONING MAP.

A certified copy of the Zoning Map shall be adopted and approved with the text as part of this ordinance and shall bear upon its face the attestation of the Village President and Village Clerk and shall be available to the public in the office of the Village Clerk.

Modifications to the zoning districts shall be entered and attested on the certified copy. Changes in the F-1 Floodplain District shall not become effective until approved by the Wisconsin Emergency Management Agency (WEMA).

3.03 A-1 AGRICULTURAL/TRANSITIONAL DISTRICT

The A-1 Agricultural/Transitional District is intended to provide the Village with a transitional district allowing the maintenance of existing continuous agricultural uses until such time as urban development is warranted and/or necessary.

A. <u>Permitted Uses</u>

- 1. Forest Preserves
- 2. Game Management

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Agricultural-related uses
- 2. Single-family farm dwellings

C. <u>Permitted Accessory Uses</u>

- 1. Forest and Game Management related structures
- 2. Chicken keeping and chicken coops in accord with Section 2.07 K.

D. <u>Parcel Area & Width</u>

1. The minimum area of a parcel of land maintained and/or annexed to the Village with the A-1 Agricultural/Transitional District shall be 10 acres.

E. <u>Building Height & Area</u>

- 1. Buildings shall be limited to a maximum 35 feet in height.
- 2. No farm building or parts of farm buildings shall exceed 80 feet in height.
- 3. The total minimum floor area of a dwelling shall be 1,200 square feet, with a first floor area of not less than 800 square feet.
- F. <u>Yards</u>
 - 1. A minimum street yard (setback) of 50 feet from the highway or road rightof-way shall be required.
 - 2. There shall be a side yard on each side of all structures not less than 25 feet in width.
 - 3. There shall be a rear yard of not less than 50 feet.

3.04 R-1 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-1 Residential District is intended to provide for single-family residential development in a more rural large lot setting. Typical lots will not have sanitary sewer or municipal water system connections.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage.
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements 3 8 persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool, and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
 - 3. Chicken keeping and chicken coops in accord with Section 2.07 K.

D. Lot Area & Width

1. Lots shall have a minimum area of 40,000 square feet and shall be not less than 150 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 80% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,500 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum side yard of 15 feet to the lot line.
 - 3. There shall be a rear yard of not less than 25 feet.

4. The minimum side and rear yard setback for all accessory structures shall be 10 feet.

3.05 R-2 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-2 Residential District is intended to provide for large lot single-family residential development, served by municipal sewer and water facilities or private (on site or off site) sewer and water facilities.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements $3 \approx 8$ persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 20,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 75% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,500 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.

- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum aggregate side yard of 30 feet, and no single side yard shall be less than 15 feet. No 15 foot side yard shall abut a second 15 foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be ten (10) feet.

3.06 R-3 SINGLE-FAMILY RESIDENTIAL DISTRICT

The R-3 Residential District is intended to provide for medium sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements $3 \approx 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 14,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 70% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 1,200 square feet. Two story dwelling units shall require a minimum of 1,800 square feet, with a first floor area of not less than 1,000 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum aggregate side yard of 30 feet, and no single side yard shall be less than 10 feet. No 10 foot side yard shall abut a second 10 foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.07 R-4 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-4 Residential District is intended to provide for medium sized lot single-family residential development, served by municipal sewer and water facilities.

A. <u>Permitted Uses</u>

- 1. Single-family dwellings with an attached or detached garage.
- 2. Foster Homes
- 3. Family Day Care Homes
- 4. Community Living Arrangements $\gg 8$ persons

B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.

D. Lot Area & Width

1. Lots shall have a minimum area of 12,000 square feet and shall be not less than 80 feet in width.

E. Green Space

- 1. There shall be a minimum of 65% of lot area retained as green space, as defined in Section 16.02 of this ordinance.
- F. <u>Building Height & Area</u>
 - 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
 - 2. The total minimum floor area of a dwelling shall be 1,100 square feet. Two story dwelling units shall require a minimum 1,400 square feet, with a first floor of not less than 800 square feet.
 - 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 25 feet. No single side yard shall be less than 10 feet, and no 10-foot side yard shall abut upon another 10-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.08 R-5 SINGLE FAMILY RESIDENTIAL DISTRICT

The R-5 Residential District is intended to provide for small sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage.
 - 2. Foster Homes

- 3. Family Day Care Homes
- 4. Community Living Arrangements $\stackrel{>}{\rightarrow} 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 9,600 square feet and shall be not less than 80 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this ordinance.
- F. Building Height & Area
 - 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
 - 2. The total minimum floor area of a dwelling shall be 1,000 square feet. Two story dwelling units shall require a minimum 1,200 square feet, with a first floor of not less than 700 square feet.
 - 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 25 feet. No single side yard shall be less than 10 feet, and no 10-foot side yard shall abut upon another 10-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.09 R-6 SINGLE-FAMILY RESIDENTIAL DISTRICT.

The R-6 Residential District is intended to provide for small sized lot single-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with an attached or detached garage.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements $3 \approx 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building

C. <u>Permitted Accessory Uses</u>

- 1. Gardening, tool and storage sheds incidental to the residential use.
- 2. Home occupations and professional home offices as specified herein.

D. Lot Area & Width

- 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 60 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum 45% of lot area retained as green space, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of a dwelling shall be 950 square feet. Two story dwelling units shall require a minimum of 1,200 square feet, with a first floor area of not less than 700 square feet.
- 3. The sum total of all accessory structures on a lot shall not exceed 720 square feet in area.

- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be two side yards with a minimum aggregate width of 18 feet. No single side yard shall be less than 6 feet, and no 6-foot side yard shall abut upon another 6-foot side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.10 Rd-1 TWO-FAMILY RESIDENTIAL DISTRICTS.

The Rd-1 Residential District is intended to provide for medium sized lot two-family residential development, served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Single-family dwellings with attached or detached garage
 - 2. Two-family dwellings with attached or detached garage
 - 3. Foster Homes
 - 4. Family Day Care Homes
 - 5. Community Living Arrangements $\gg 8$ persons
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Community Living Arrangements 9 15 persons
- 2. Home Occupations/Home Industry in an Accessory Building
- 3. One accessory garage apartment dwelling unit per lot located in the second story of a detached garage. On any Rd-1 lot where a garage apartment is approved, the total number of dwelling units shall not exceed two (2), including the garage apartment.
- C. <u>Permitted Accessory Uses</u>
 - 1. Gardening, tool and storage sheds incidental to the residential use.
 - 2. Home occupations and professional home offices as specified herein.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 14,000 square feet and shall be not less than 90 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 70% of lot are retained as green space for single family uses, and 50% of lot area retained as green space for two-family uses, as defined in Section 16.02 of this ordinance.

F. Building Height & Area

- 1. No dwelling or parts of a dwelling shall exceed 35 feet in height. No accessory structure shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The minimum floor area of a dwelling shall be 950 square feet per dwelling unit.
- 3. The sum total of the area of all accessory structures on a lot shall not exceed 720 square feet for a single-family dwelling or 960 square feet for a two-family dwelling, whichever is larger.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all public roads shall be required.
 - 2. There shall be a minimum side yard of 10 feet to the lot line.
 - 3. There shall be a rear yard of not less than 25 feet.
 - 4. The minimum side and rear yard setback for all accessory structures shall be five(5) feet.

3.11 Rm-1 MULTIPLE-FAMILY RESIDENTIAL DISTRICT.

The Rm-1 Residential District is intended to provide for medium lot size multiple-family residential developments limited to structures not exceeding four units, and served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Multiple-family dwellings, not to exceed four units per structure with an:
 - (a) Attached or detached 300 square foot garage per unit if the structure is constructed slab on grade.
 - (b) Attached or detached 200 square foot garage per unit if the structure is constructed with a basement.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements for $\gg 15$ persons
- B. <u>Conditional Uses</u>
 - 1. Elderly Housing arrangements for < 23 persons
 - 2. Community Living arrangements > 15 persons

C. <u>Permitted Accessory Uses</u>

- 1. Private garages and carports.
- 2. Gardening, tool and storage sheds incidental to the residential use.

D. Lot Area & Width

1. Lots shall have a minimum 18,000 square feet and shall be not less than 90 feet in width at the setback.

E. Green Space

1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. Building Height & Area

- 1. No principal building or parts of a principal building shall exceed 35 feet in height. No accessory building shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of each unit shall be 600 square feet for efficiency and one-bedroom units. Each additional bedroom or area that could be converted to a bedroom shall require an additional 200 square feet of floor area.
- 3. The sum total of the area of all accessory structures on a lot shall not exceed 480 square feet per dwelling unit.

G. <u>Yards</u>

- 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
- 2. There shall be a minimum side yard of the greater of fifteen (15) feet or the height of the structure at its highest point measured from the finished grade of the same side yard.
- 3. There shall be a rear yard of not less than 25 feet.

H. <u>Plans & Specifications to Be Submitted to the Plan Commission</u>

To encourage and insure that multiple-family residential development is environmentally compatible with the medium-density residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of this Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.12 Rm-2 MULTIPLE-FAMILY RESIDENTIAL DISTRICT

The Rm-2 Residential District is intended to provide for medium lot size multiple-family residential developments served by municipal sewer and water facilities.

- A. <u>Permitted Uses</u>
 - 1. Multiple-family dwellings, not to exceed four units per structure with an:
 - (a) Attached or detached 300 square foot garage per unit if the structure is constructed slab on grade.
 - (b) Attached or detached 200 square foot garage per unit if the structure is constructed with a basement.
 - 2. Foster Homes
 - 3. Family Day Care Homes
 - 4. Community Living Arrangements for ≈ 15 persons
- B. <u>Conditional Uses</u>
 - 1. Multiple-family dwellings > 4 dwelling units
 - 2. Elderly Housing arrangements for < 23 persons
 - 3. Community Living arrangements > 15 persons
 - 4. Cellular and Digital Communication Antennas and Towers
- C. <u>Permitted Accessory Uses</u>
 - 1. Private garages and carports.
 - 2. Gardening, tool and storage sheds incidental to the residential use.
- D. Lot Area & Width
 - 1. Lots shall have a minimum 18,000 square feet and shall be not less than 90 feet in width at the setback.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 55% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. Building Height & Area

- 1. No principal building or parts of a principal building shall exceed 35 feet in height. No accessory building shall exceed 20 feet in height. No accessory structure may exceed the height of the principal building.
- 2. The total minimum floor area of each unit shall be 750 square feet for efficiency and one-bedroom units. Each additional bedroom or area that could be converted to a bedroom shall require an additional 200 square feet of floor area.

- 3. The sum total of the area of all accessory structures on a lot shall not exceed 480 square feet per dwelling unit.
- 4. Buildings for residents age 55 and over which have indoor underground parking shall not exceed 48 feet in height, and shall not contain more than 3 stories, excluding underground parking.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 35 feet from the right-of-way of all streets shall be required.
 - 2. There shall be a minimum side yard setback of the greater of fifteen (15) feet or the height of the structure at its highest point measured from the finished grade of the same side yard.
 - 3. There shall be a rear yard of not less than 25 feet.
- H. <u>Plans & Specifications to Be Submitted to the Plan Commission</u>

To encourage and insure that multiple-family residential development is environmentally compatible with the medium-density residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of this Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.13 Mh-1 MOBILE HOME PARK RESIDENCE DISTRICT

The Mh-1 Mobile Home Park District is intended to provide for the location of mobile home parks and mobile home subdivisions in a residential setting that is compatible with adjacent land uses. Mobile homes are declared herein to be residential structures and entitled to the same protection from incompatible uses as are afforded in other residential districts.

- A. <u>Permitted Uses</u>
 - 1. Individual mobile homes on lots in mobile home subdivisions.
- B. <u>Conditional Uses</u>

1. MOBILE HOME PARKS

- (a) Minimum park size shall be 10 acres.
- (b) Minimum park width shall be 450 feet.
- (c) Maximum number of mobile home sites shall be six (6) per acre.
- (d) Minimum green space provided shall be 45 percent (45%)of the development area, exclusive of streets.
- (e) Minimum lot area shall be 7,200 square feet. The mobile home lot shall be a minimum of sixty(60) feet.

- (f) Minimum lot area for a double module mobile home shall be 6,000 square feet. The mobile home lot shall be a minimum of fifty(50) feet wide.
- (g) Minimum setback for a mobile home park shall be fifty(50) feet from all public streets.
- (h) Minimum distance between mobile home units and all other exterior park lotlines shall be forty (40) feet.
- (i) Minimum distance between mobile home and service road shall be twenty-five(25) feet. Minimum distance between mobile home trailers shall be twenty(20) feet.
- (j) All drives, parking areas, and walkways shall be surfaced with dustfree material. There shall be two (2) parking spaces for each mobile home.
- (k) No mobile home sales office or other business or commercial use shall be located on the mobile home park site. However, laundries, washrooms, recreation rooms, maintenance equipment storage and one (1) office are permitted.
- (1) All landscaping and screening shall be approved through the Planning Commission in accordance with Article 9, Section 9.12 of this code.
- (m) All mobile homes shall meet the construction standards of the Mobile Homes Manufacturing Association.
- (n) No mobile home site shall be rented for a period of less than 30 days.

C. <u>Permitted Accessory Uses</u>

- 1. Private garages and carports in mobile home subdivisions.
- 2. Gardening, tool and storage sheds incidental to the residential use in mobile home subdivisions.
- 3. Home occupations and professional home offices in mobile home subdivisions.
- D. Lot Area & Width
 - 1. Lots in a mobile home subdivision shall have a minimum of 7,200 square feet in area and shall be not less than 70 feet in width.

E. <u>Green Space</u>

- 1. There shall be a minimum of forty-five(45) percent of lot area designated as green space, as defined in Section 16.02 of this ordinance.
- F. Building Height & Area
 - 1. No building or parts of a building shall exceed 35 feet in height.
 - 2. The minimum floor area for a dwelling shall be 600 square feet.

- G. <u>Yards</u>
 - 1. A minimum street yard setback of twenty-five(25) feet from the right-of-way of all public streets shall be required.
 - 2. There shall be two side yards. Each side yard shall be not less than 10 feet in width.
 - 3. There shall be a rear yard of not less than 25 feet.

3.14 B-1 COMMERCIAL DISTRICT

The B-1 Business District is intended to provide for the orderly continuation of the traditional central business district of the Village. The business activities in the district are of a general retail nature and are characterized by on-street parking.

- A. <u>Permitted Uses</u>
 - 1. Retail Stores
 - 2. Offices
 - 3. Professional Services
 - 4. Medical Clinics
 - 5. Theaters
 - 6. Taverns/Restaurants
 - 7. Hotels/Motels
 - 8. Financial/Banking Institutions
 - 9. Single-Family Dwellings constructed prior to 08-14-02
 - 10. Two-Family Dwellings constructed prior to 08-14-02.
- B. <u>Conditional Uses</u>

The following uses require a Conditional Use Permit as specified in Section 4.00 of the Village of Slinger Zoning Code:

- 1. Drive-through Facilities
- 2. Fuel/Automotive Service Stations
- 3. Antique & Second Hand Merchandise Sales
- 4. Veterinary Services
- 5. Funeral Homes
- 6. Tattooing and/or Body Piercing Establishments as Defined by the State.
- 7. Multiple-Family Residential Structures
- 8. Retail Sales/Rental of Sexually Explicit Materials
- 9. Child Care Facilities
- 10. Vehicle Sales
- 11. Septic Tank Services & Installation Use existing prior to 08-14-02
- 12. Vehicle and Trailer Rentals
- 13. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125
- 14. Conversion of Commercial Buildings (existing prior to February 18, 2013 to one and two-family dwellings meeting requirements of the Uniform Dwelling Code.

- 15. Outdoor storage of operable vehicles, trucks, trailers, RV's, boats and similar recreational equipment. All such storage areas shall be screened from view from nearby public streets and nearby residential and business areas in accord with an approved site plan showing the screening of fencing measures.
- 16. Youth social activity clubs
- C. <u>Permitted Accessory Uses</u>
 - 1. Accessory garages for the storage of vehicles used in conjunction with the operation of a permitted business.
 - 2. Off-street parking and loading areas.
 - 3. Residential quarters for the owner, proprietor, commercial tenant, employee, or caretaker located in the same building as the business. If the residential quarters are located on the ground floor, they shall not be facing upon the public street.
 - 4. Rental efficiency, one bedroom and two bedroom apartments on a nonground floor provided there shall be a minimum floor area of 400 square feet for an efficiency apartment, 550 square feet for a one-bedroom apartment and 700 square feet for a two-bedroom apartment.
 - 5. Garage accessory to a permitted residence.
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 70 feet in width.
- E. <u>Building Height</u>
 - 1. No building or part of a building shall exceed 35 feet in height.
- F. <u>Yards</u>
 - 1. No minimum setback shall be required.
 - 2. No minimum side yard is required between buildings, however, where a side yard is required, it shall be not less than 10 feet in width.
- G. <u>Plan Review</u>
 - 1. To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading, unloading, and landscape plans.

3.15 B-2 COMMERCIAL DISTRICT

The B-2 Commercial District is intended to provide for the orderly and attractive grouping at appropriate locations along principal highway routes of those businesses and customer service establishments which routes of businesses and customer service establishments which are logically related to and dependent upon highway traffic or which are specifically designed to serve the needs of such traffic.

Certain types of residential facilities may be permitted in the B-2 District either as secondstory units accessory to commercial buildings, or as Conditional Uses for specific types of housing for the elderly.

- A. <u>Permitted Uses</u>
 - 1. Essential Services
 - 2. Financial/Banking Institutions
 - 3. Fuel/Automotive Service Stations (Constructed prior to 07-01-02)
 - 4. Hotels/Motels
 - 5. Medical Clinics
 - 6. Offices
 - 7. Professional Services
 - 8. Retail Stores
 - 9. Taverns/Restaurants
- B. <u>Conditional Uses</u>
 - 1. Antique and Second Hand Merchandise Sales
 - 2. Assisted Living Facilities for the Elderly
 - 3. Athletic Clubs/Associated Facilities
 - 4. Cellular and Digital Communication Antennas and Towers
 - 5. Community Based Residential Facilities
 - 6. Community Living Arrangements
 - 7. Congregate Housing for the Elderly
 - 8. Construction Services/Contractor Shops
 - 9. Day Care Facilities
 - 10. Drive-through Facilities
 - 11. Fuel/Automotive Service Stations (Constructed after 07-01-02)
 - 12. Funeral Homes
 - 13. Nursing Homes
 - 14. Residential Care Facilities for the Elderly
 - 15. Tattooing and/or Body Piercing Establishments as Defined by the State
 - 16. Theaters
 - 17. Uses Permitted in the M-1 Manufacturing District with no outside storage
 - 18. Vehicle Sales
 - 19. Veterinary Services
 - 20. Car Washes
 - 21. Conference Centers/banquet Halls/Event Facilities
 - 22. Enclosed Connecting Walkways (located in sideyards)
 - 23. Self-Storage Facilities (See Sec 4.02 E.)

- 24. Auto Body Repair/Restoration with Outdoor Storage
- 25. Vehicle Towing Services with Outdoor Storage
- 26. Vehicle & Trailer Rentals
- 27. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125
- 28. Car & light truck repair and service
- 29. Indoor archery ranges
- 30. Youth social activity clubs

C. <u>Permitted Accessory Uses</u>

- 1. Accessory garages for the storage of vehicles used in conjunction with the operation of a permitted business.
- 2. Off-street parking and loading areas.
- 3. Residential units in conjunction with a permitted or conditionally permitted use provided residential unit is not on the first, or street, level of the structure. Said residential unit shall have a minimum floor area of 600 square feet for efficiencies and one-bedroom units, plus an additional 200 square feet for each additional bedroom.
- D. Lot Area and Width
 - 1. The total development area of a highway business use shall be not less than 20,000 square feet.
 - 2. Individual shops and stores shall provide sufficient area for the principal structure and its accessory structures, offstreet parking and loading areas, and all required yards.
 - 3. No business development shall be less than 90 feet in width.

E. <u>Green Space</u>

- 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed 45 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No principal building or structure shall be located closer than twenty (20) feet to any lot line, except where property is adjacent to zoned residential districts where it shall be forty (40) feet to any residentially zoned lot line.

H. <u>Plan Review</u>

1. To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking loading and unloading, and landscape plans.

3.16 B-3 COMMERCIAL DISTRICT

The B-3 Commercial District is intended to provide for the orderly and attractive grouping at appropriate locations of professional offices.

- A. <u>Permitted Uses</u>
 - 1. Offices
 - 2. Professional Services
 - 3. Medical Clinics
- B. <u>Conditional Uses</u>
 - 1. Laboratories
 - 2. Veterinary Clinics
 - 3. Child Care Facilities
 - 4. Financial/Banking Institutions
 - 5. Drive-In Banking Facilities
 - 6. Athletic Clubs/Associated Facilities
 - 7. Uses Permitted in the M-1 Manufacturing District with no outside storage
 - 8. Uses Permitted in the B-1 and B-2 Commercial Zoning Districts
 - 9. Green Space requirement of thirty-five (35) percent of lot area
 - 10. Cellular and Digital Communication Antennas and Towers
 - 11. Vehicle & Trailer Rentals
 - 12. Youth social activity clubs
- C. <u>Permitted Accessory Uses</u>
 - 1. Off-street parking and loading areas.
- D. Lot Area and Width
 - 1. The total development area of a B-3 Commercial use shall be not less than 20,000 square feet.
 - 2. No business development shall be less than 90 feet in width.

E. <u>Green Space</u>

1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

F. <u>Building Height</u>

- 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.
- H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits shall not be issued until such time as plans for the development are reviewed in accordance with Section 10.00 of the Zoning Code. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking loading and unloading, and landscape plans.

3.165 <u>B & LM-1 BUSINESS AND LIGHT MANUFACTURING DISTRICT</u>

- A. <u>Purpose</u>. The B&LM-1 Business and Light Manufacturing District is intended to provide for the development of compatible manufacturing, warehouse, office, service business and supporting uses. The physical and operational characteristics of uses in this District are based on performance standards which would not be detrimental to the public health, safety or welfare or detrimental to the surrounding area as a result of noise, vibration, external lighting, odor, particulate emissions, other visible emissions, hazardous pollutants, traffic, physical appearance, or other similar factors. All uses in this District must comply with applicable local, state and federal codes and standards. Uses in the District are also intended to provide ample off-street parking and loading areas, and landscaped planting screens in areas adjacent to or abutting residential uses.
- B. <u>Permitted Uses</u>.
 - 1. Banks, Credit Unions, and similar financial institutions.
 - 2. Business, professional, clerical or general offices.
 - 3. Medical Clinics and offices.
 - 4. Research laboratories.

- 5. Sales of industrial and construction supplies.
- 6. Uses involving the manufacture and fabrication of goods conducted entirely inside a building at all times, and in which any noise, vibration, heat or flash produced in any process is confined within the building at all times. Any odors produced or emitted in any process must meet applicable federal and state regulations for air emissions. See the Performance Standards for the B&LM-1 District in Section 9.13.
- 7. Uses providing a service conducted entirely inside a building at all times, and in which any noise, vibration, heat, or flash produced on the premises by such service use is confined within a building at all times. Any odors produced or emitted must meet applicable federal and state regulations for air emissions. See the Performance Standards for the B&LM-1 District in Section 9.13.
- 8. Warehouse storage buildings, where all goods and materials are stored inside a building at all times, but not including mini-warehouse buildings. See Section 3.165 D. 5 for mini-warehouses.
- C. <u>Permitted Accessory Uses</u>.
 - 1. Food service areas or cafeterias incidental to a permitted use, but not restaurants.
 - 2. Garages or buildings used for the storage of vehicles or equipment used in conjunction with the operation of a permitted use.
 - 3. Ground-mounted and building-mounted dish antennas.
 - 4. Off-street parking and loading areas.
 - 5. Outdoor storage of materials or manufactured products, trucks, trailers and equipment accessory to the principal use. All such outdoor storage areas shall be screened from view from nearby public streets and from nearby residential areas in accord with an approved site plan.
 - 6. Retail sales of products integral with and incidental to a service or manufacturing business located on the same premises.
- D. <u>Conditional Uses</u>. The following uses may be permitted in accordance with the provisions of Section 4.00:
 - 1. Communication towers, antennas, structures and facilities.
 - 2. Day care facilities.
 - 3. Incineration in conjunction with and incidental to a service or manufacturing use.
 - 4. Indoor athletic facilities.
 - 5. Self-Storage facilities (See Sec. 4.02 E.)
 - 6. Motels and Hotels.
 - 7. Public or municipal buildings, and public utility structures.
 - 8. Restaurants
 - 9. Vehicle sales and service
 - 13. Veterinary offices and small animal hospitals without outdoor kennels.
 - 14. Vehicle & Trailer Rentals

- E. <u>Prohibited Uses</u>. In addition to other uses not expressly permitted in this district, the following uses are specifically prohibited, and are listed by way of example, but not limitation:
 - 1. All types of residential uses, except guard quarters.
 - 2. Asphalt & Concrete plants.
 - 3. Automobile storage, salvage, recycling yards, or similar uses.
 - 4. Churches, synagogues, schools, or similar institutional uses or places of religious worship.
 - 5. Contractors yards and the outdoor storage of construction equipment.
 - 6. Drop forges, ferrous and brass foundries, grain elevators, refineries or tanneries.
 - 7. Fertilizer storage or packaging.
 - 8. Planing mills and sawmills.
 - 9. Principal uses involving the storage, utilization, or manufacture of hazardous materials or products which decompose by detonation.
 - 10. Solid and liquid waste disposal, dumping, medical waste storage or disposal, or similar waste management uses.
 - 11. Stockyards, slaughterhouses and rendering plants.
 - 12. Storage and dispensing of fuels and petroleum products.
 - 13. Truck terminals.
 - 14. Wholesale buying clubs.
- F. <u>Performance Standards</u>. Uses in the B&LM-1 District shall comply with the Performance Standards set forth in Section 9.13.
- G. <u>Number of Buildings per Lot</u>. Each lot shall contain a maximum of one (1) principal building. There shall be no limit on the number of accessory buildings provided the lot coverage/open space requirement described in Section I are complied with.
- H. Lot Area and Width.
 - 1. Lots shall be a minimum of twenty thousand (20,000) square feet in area.
 - 2. Lots shall not be less than ninety (90) feet in width.
- I. <u>Lot Coverage and Green Space</u>. To achieve an attractive appearance and to provide green space for stormwater management and sedimentation control, lot coverage by buildings, accessory structures, and surface parking and driveways shall occupy a maximum of seventy-five percent (75%) of the lot area. Landscaped green space not covered by buildings, accessory structures, and surface parking and driveways shall occupy a minimum of twenty-five percent (25%) of the lot area. The green space may include stormwater retention/detention areas.
- J. <u>Setback and Yards</u>.
 - 1. These shall be a minimum street yard(setback)of forty (40)feet from any existing or planned public street right-of-way.
 - 2. There shall be a minimum interior side yard of not less than twenty (20) feet on a side.

- 3. There shall be a minimum rear yard of not less than twenty-five (25) feet.
- 4. Accessory uses, accessory buildings or accessory structures shall be located in side or rear yards only, and shall be setback a minimum of ten (10) feet from a side or rear lot line.
- 5. Outdoor storage areas shall be located in side or rear yards only, and shall be setback a minimum of ten (10) feet from a side or rear lot line.
- 6. Parking lots located in street yards shall be setback a minimum of twenty (20) feet from the street right-of-way. This includes parking lots in corner lot side yards.
- 7. Parking lots located in side or rear yards shall be setback a minimum of ten (10) feet from side or rear lot lines.
- 8. Setbacks and buffer yards adjacent to residential districts or residential uses. On B&LM-1 lots adjacent to residential districts, all outdoor storage areas, accessory buildings, or accessory uses including parking lots shall provide a greater setback to provide a buffer yard. Any such uses shall be setback a minimum of forty (40) feet from a property line adjacent to or abutting a residential district. The buffer yard area shall be landscaped or fenced, or a combination thereof, to screen such uses in accord with a site plan requiring such screening or fencing.
- K. <u>Building Height</u>. No building or parts of a building shall exceed thirty-five (35) feet in height. Accessory buildings or structures shall not exceed twenty (20) feet in height.
- L. <u>Parking, Driveways, Loading and Storage Areas</u>. Parking facilities, driveways, loading and storage areas shall be paved with either asphaltic concrete or portland cement concrete prior to the occupancy of the building. Peripheral edge landscaping shall be installed around the edges of parking areas visible from public streets or residential areas. See Section 5.00 for additional requirements related to parking, driveway, and loading facilities.
- M. <u>Loading Areas and Docks, Garbage and Trash Areas</u>. Loading areas or docks shall be located in side or rear yards. Outdoor garbage and trash areas shall be enclosed with a fence or wall of solid decorative material compatible with the principal building.
- N. <u>Signs</u>. Signs in the B&LM-1 District shall be erected and maintained in conformity with the requirements in Section 6.00.
- O. <u>Exterior Lighting</u>. Exterior lighting in the B&LM-1 District shall meet the following criteria:
 - 1. Exterior lighting shall be located, oriented, and shielded and of an intensity so as to illuminate only the building or lot without adversely affecting activity on adjacent lots or traffic on street and highways.
 - 2. Exterior lighting shall be directed away from nearby residential areas.
 - 3. Exterior lights or signage shall not flash, pulsate, nor impair or hinder vision on public street rights-of-way or adjacent properties.

- 4. Exterior lighting shall meet the standards promulgated by the Illuminating Engineering Society of North America.
- P. <u>Site Plan and Architectural Approval Required</u>. No building, structure or improvement shall be constructed or placed on any lot, nor shall any building structure or improvement be remodeled or altered until site and architectural plans for such improvements have been approved by the Planning Commission in accord with the requirements of Section 10.00.
- Q. <u>Compliance with Landscaping Requirements & Design Review Criteria</u>. Uses in the B&LM-1 District are required to comply with other additional requirements contained in Section 9.12 & 5.03 I. regarding landscaping requirements, and in Section 10.04 D. regarding site and building design review criteria.

3.17 M-1 MANUFACTURING DISTRICT

The M-1 Manufacturing District is intended to provide for manufacturing or fabrication operations, which, on the basis of physical and operational characteristics, would not be detrimental to the immediate surrounding area or to the Village as a whole by reason of smoke, odor, noise, dust, flash, traffic, physical appearance, or other similar factors; and to establish such regulatory controls as will reasonable insure compatibility with the surrounding area in this respect.

- A. <u>Permitted Uses</u>
 - 1. Warehouses
 - 2. All uses involving the manufacture of goods within the confines of a building and in which any smoke, noise, dust, flash, or odor produced in the manufacturing process is confined within the building.
 - 3. All uses involving the fabrication of materials within the confines of a building and in which any smoke, dust, flash, noise, or odor produced in the fabrication process is confined within the building.
 - 4. All uses involving the provision of a service which is either manufacturing or fabrication-related and not permitted in business districts confined within a building, and in which smoke, dust, flash, heat, noise, or odor produced by such service uses is confined within the building.
- B. <u>Permitted Accessory Uses</u>
 - 1. Enclosed as well as screened areas for the storage of materials, other than explosive or flammable materials or substances used in the manufacturing or fabrication process.
 - 2. Offices normally auxiliary to the principal use.
 - 3. Garages for the storage of vehicles used in the conjunction with the operation of the industrial use.
 - 4. Auxiliary power generators.
 - 5. Offstreet parking and loading areas.
 - 6. Essential services.

- 7. Sale of products directly related to a service or manufacturing business located on the same premises.
- C. <u>Conditional Uses</u>
 - 1. Communication Towers/Stations
 - 2. Freight Service/Terminals
 - 3. Self-Storage facilities (See Sec. 4.02 E.)
 - 4. Athletic Clubs/Associated Facilities
 - 5. Salvage Yards
 - 6. Cellular and Digital Communication Antennas and Towers
 - 7. Animal Day Care & Boarding & Grooming
 - 8. Retail or wholesale sales of products not manufactured on the premises. The retail sales shall be incidental to the principal permitted use, and shall be limited to thirty-three (33) percent of the gross floor area of the principal building and all accessory buildings.
 - 9. Indoor and outdoor recreational facilities and uses such as amusement arcades, archery ranges, billiards, bowling, court games, carting, gymnastics, exercise/health clubs, paint ball, roller skating, all with related food & beverage services.
 - 10. Vehicle & Trailer Rentals
 - 11. Youth social activity clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 20,000 square feet and shall be not less than 90 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.

H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the business districts shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and screening and landscape plans.

3.18 M-2 GENERAL MANUFACTURING DISTRICT

The M-2 Manufacturing District if intended to provide for the same type of manufacturing and fabricating operations and uses as in the M-1 Manufacturing District plus more intensive uses. However, these operations and uses shall be provided in those areas where the relationships to surrounding land use wold create fewer problems of compatibility. The M-2 Manufacturing District also permits those activities generally perceived as being of a nuisance nature or considered to be hazardous. Such district should not normally abut directly upon Residential, Commercial, or Institutional Districts.

- A. <u>Permitted Principal Uses</u>
 - 1. All uses as permitted in the M-1 District.
 - 2. All manufacturing fabricating, and storage uses not permitted in any other industrial district (except the manufacture or fabrication of explosives, flammable liquids, chemicals, and gaseous or vaporous substances) as long as such permitted uses are carried on within an enclosed structure or within a totally screened yard area.
- B. <u>Permitted Accessory Uses</u>
 - 1. Enclosed as well as screened open storage of materials other than explosive or flammable materials or substances used in the manufacturing or fabrication process.
 - 2. Offices normally auxiliary to the principal use.
 - 3. Garages for the storage of vehicles used in conjunction with the operation of the industrial use.
 - 4. Auxiliary power generators.
 - 5. Offstreet parking and loading areas.
 - 6. Essential services.
 - 7. Sale of products directly related to a service or manufacturing business located on the same premises.

C. <u>Conditional Uses</u>

- 1. Sewage Treatment Plants
- 2. Incinerators
- 3. Warehousing of Hazardous Materials
- 4. Bulk Fuel Storage
- 5. Self-Storage facilities (See Sec 4.02 E.)
- 6. Salvage Yards
- 7. Green Space requirement of twenty-five (25) percent of lot area
- 8. Cellular and Digital Communication Antennas and Towers
- 9. Bus Terminal and Related Service Facilities
- 10. Vehicle Sales, when the primary business is vehicle related.
- 11. Electrical substations & related facilities
- 12. Animal Day Care & Boarding & Grooming
- 13. Retail or wholesale sales of products not manufactured on the premises. The retail sales shall be incidental to the principal permitted use, and shall be limited to thirty-three (33) percent of the gross floor area of the principal building and all accessory buildings.
- 14. Indoor and outdoor recreational facilities and uses such as amusement arcades, archery ranges, billiards, bowling, court games, carting gymnastics, exercise/health clubs, paint ball, roller skating, all with related food and beverage services.
- 15. Truck Terminals
- 16. Vehicle & Trailer Rentals
- 17. Youth social activity clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum of 40,000 square feet in area and shall be not less than 150 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.
- F. Building Height
 - 1. No building or parts of a building shall exceed 35 feet in height.
- G. <u>Yards</u>
 - 1. A minimum street yard (setback) of 40 feet from the right-of-way of all public streets shall be required.
 - 2. No use shall be located closer than 20 feet to any lot line, except where property is adjacent to zoned residential districts when it shall be 40 feet to any residentially zoned lot line.

H. <u>Plan Review</u>

To encourage and insure that business development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the business districts shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and screening and landscape plans.

3.19 P-1 PARK & RECREATION DISTRICT

The P-1 Park District is intended to provide for areas where the recreational needs, both public and private, of the populace can be met without undue disturbance of natural resources and adjacent uses.

- A. <u>Permitted Uses</u>
 - 1. Amphitheaters
 - 2. Amusement Parks
 - 3. Arenas & Field Houses
 - 4. Art Galleries
 - 5. Aquariums
 - 6. Auditoriums
 - 7. Banquet Hall & Event Facilities
 - 8. Boat Rentals & Boat Access Sites
 - 9. Botanical Gardens & Arboretums
 - 10. Community Events
 - 11. Exhibition Halls
 - 12. Fairgrounds
 - 13. Forest Preserve (Wildlife Refuges)
 - 14. Forest Preserves (Wilderness Areas)
 - 15. Golf Course w/o County Club Facilities
 - 16. Golf Driving Ranges
 - 17. Group Organized Camps
 - 18. Gymnasium & Athletic Clubs
 - 19. Historic & Monument Sites

- 20. Ice Skating
- 21. Libraries
- 22. Miniature Golf
- 23. Museums
- 24. Outdoor Concert Events Limited to 4 (four) Per Calendar Year
- 25. Parks: General Recreation
- 26. Parks: Leisure & Ornamental
- 27. Picnicking Areas
- 28. Planetaria
- 29. Playfields or Athletic Clubs
- 30. Playgrounds
- 31. Play Lots or Tot Lots
- 32. Recreation Centers
- 33. Restaurants (with & without a bar)
- 34. Skiing & Tobogganing
- 35. Stadiums
- 36. Swimming Beaches
- 37. Swimming Pools
- 38. Tennis Courts
- 39. Zoos

- B. <u>Permitted Accessory Uses</u>
 - 1. Buildings accessory to permitted recreational uses.
 - 2. Essential services.
 - 3. Offstreet parking areas
 - 4. Retail sales in conjunction with sports and recreation uses
- C. <u>Conditional Uses</u>
 - 1. Cellular and Digital Communication Antennas and Towers
 - 2. Racetracks
 - 3. Outdoor concert events exceeding four (4) per calendar year.
 - 4. Outdoor sale and/or consumption of alcoholic beverages, as part of a tavern/restaurant that is licensed under Wisconsin Statutes Chapter 125.
- D. Lot Area & Width
 - 1. Lots in the P-1 Park District shall provide sufficient area for the principal structure and its accessory structures, off-street parking and loading areas, and all required yards.
- E. <u>Building Height</u>
 - 1. No building or parts of a building shall exceed thirty-five (35) feet in height.
- F. <u>Yards</u>
 - 1. No principal building or structure shall be erected, altered, or moved closer than 40 feet to a lotline.
 - 2. Accessory buildings or accessory structures shall be located in side or rear yards and shall be setback a minimum of five (5) feet from a side or rear lot line.
- G. <u>Plan Review</u>

To encourage and ensure that recreational development is environmentally compatible with other uses and the medium-density residential nature and character of the Village of Slinger, Zoning Permits for permitted use in the Park and Recreation District shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.20 I-1 INSTITUTIONAL DISTRICT

The I-1 Institutional District is intended to eliminate the ambiguity of maintaining, in unrelated use districts, areas which are under public or public related ownership and where the use for public purpose is anticipated to be permanent.

- A. <u>Permitted Uses</u>
 - 1. Public or private schools, colleges and universities.
 - 2. Churches.
 - 3. Hospitals, sanatoriums, nursing homes, and clinics.
 - 4. Libraries, museums and art galleries.
 - 5. Public administrative offices, and public service buildings, including fire and police stations.
 - 6. Public utility offices.
 - 7. Water storage tanks and towers.
- B. <u>Permitted Accessory Uses</u>
 - 1. Residential quarters for caretakers or clergy.
 - 2. Garages for the storage of vehicles and equipment used in conjunction with the operation of a permitted use.
 - 3. Off-street parking and loading areas.
 - 4. Service building and facilities normally accessory to permitted uses.
 - 5. Essential services.
- C. <u>Conditional Uses</u>
 - 1. Airports
 - 2. Sewerage Treatment Plants
 - 3. Incinerators
 - 4. Cemeteries
 - 5. Community Living Arrangements
 - 6. Cellular and Digital Communication Antennas and Towers
 - 7. Group Day Care Facilities Licensed by the State
 - 8. Youth Social Activity Clubs
- D. Lot Area & Width
 - 1. Lots shall have a minimum area of 7,200 square feet and shall be not less than 70 feet in width.
- E. <u>Green Space</u>
 - 1. There shall be a minimum of 25% of lot area retained as green space, as defined in Section 16.02 of this Ordinance.

E. <u>Building Height</u>

1. No building or parts of a building shall exceed 35 feet in height.

F. <u>Yards</u>

1. Most restrictive adjacent zoning district.

G. <u>Plan Review</u>

To encourage and ensure that institutional development is environmentally compatible with the residential nature and character of the Village of Slinger, Zoning Permits for permitted uses in the Institutional District shall not be issued without review and approval of the Village Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

3.21 C-1 CONSERVANCY DISTRICT

The C-1 Conservancy District is intended to be used to prevent destruction of valuable natural or man-made resources and to protect watercourses, including the shorelands of intermittent waters, and areas that are not adequately drained, where development would result in hazards to health or safety, or would deplete or destroy natural resources or be otherwise incompatible with the public welfare.

A. <u>Permitted Uses</u>

- 1. Fishing and trapping.
- 2. Preservation of scenic, historic, and scientific areas.
- 3. Public fish hatcheries.
- 4. Public and private green space areas.
- 5. Recreation trails.
- 6. Sustained yield forestry.
- 7. Stream bank and lakeshore protection.
- 8. Water retention and wildlife preserves.
- 9. Continuation of farming, provided that no farm structures are erected, altered, or moved into the Conservancy District and further provided that cultivated areas are not extended.

B. <u>Permitted Accessory Uses</u>

- 1. Structures used in or accessory to a fish hatchery.
- 2. Non-habitable park and recreation shelters.
- 3. Structures used to traverse lowlands or watercourses.

C. <u>Conditional Uses</u>

1. Limited Recreational Uses

3.22 F-1 FLOODPLAIN CONSERVANCY

The F-1 Floodplain District is intended to preserve, essentially green space and natural use lands which are unsuitable for intensive development purposes due to poor natural soil conditions and periodic flood inundation and shall include all land and water area lying within the delineated forecast 100-year recurrence interval flood. The proper regulation of these areas will serve to maintain and improve water quality, prevent flood damage, protect wildlife habitat, and prohibit the location of structures on soils which are generally not suitable for such use.

- A. <u>Permitted Uses</u>
 - 1. Drainage
 - 2. Movement of floodwater.
 - 3. Navigation.
 - 4. Stream bank protection.
 - 5. Water measurement and control facilities.
 - 6. Any of the following uses are permitted provided that such use shall not involve the erecting or placing of a structure:
 - (a) Grazing.
 - (b) Horticulture.
 - (c) Open Parking and Loading Areas.
 - (d) Open recreational uses, such as parks, sport fields, beaches, bathing, hunting, fishing, rinks, golf courses, and driving ranges.
 - (e) Outdoor plant nurseries.
 - (f) Pasturing.
 - (g) Sod farms.
 - (h) Truck farming.
 - (i) Utilities.
 - (j) Viticulture (grape growing).
 - (k) Wildlife preserves.

B. <u>Conditional Uses</u>

The Village Plan Commission may authorize a conditional use permit in accordance with Section 4.00 of this code provided that such conditional uses and structures are found to be in accordance with the purpose and intent of this district and Chapter NR 116 of the Wisconsin Administrative Code. The applicant must show that such use of improvement will not impede drainage, will not cause ponding, will not obstruct the floodway, will not increase flood flow velocities, will not increase the flood stage, and will not retard the movement of floodwater. When permitted, all structures shall be floodproofed and constructed so as not to catch or collect debris nor be damaged by floodwater. Certification of floodproofing of a plan or document

certified by a registered professional engineer that the floodproofing measures are consistent with the flood velocities, forces, depths, and other factors associated with the 100-year recurrence interval flood level for the particular area.

Such uses shall include:

- 1. Navigational structures.
- 2. Bridges and approaches.
- 3. Marinas.
- 4. Park and recreational areas not including structures.
- 5. Filling as authorized by the Wisconsin Department of Natural Resources to permit establishment of approved bulkhead lines.
- 6. Other green space uses consistent with the purpose and intent of the district and compatible with uses in adjacent districts, not including structures.
- 7. Municipal Water Supply & Sanitary Sewerage Systems, provided that the system is floodproofed to an elevation at least two (2) feet above the elevation of the 100-year recurrence interval flood, and is designed to eliminate or minimize infiltration of floodwater into the system. Certifications of floodproofing shall be made to the Zoning Administrator, and shall consist of a plan or document certified by a registered professional engineer that the floodproofing measures are consistent with the flood velocities, forces, depths, and other factors associated with the 100-year recurrence interval lever for the particular stream reach.
- C. <u>Dumping & Filling Prohibited</u>

Lands lying within the Floodplain District shall not be used for dumping or be filled except as authorized to permit establishment of approved bulkhead lines or to accommodate bridge approaches. Normal earth grading activities to permit utilization of the lands for green space, outdoor recreation, yard, parking, and similar uses are permitted.

D. <u>Dangerous Materials Storage Prohibited</u>

Lands lying within the Floodplain District shall not be used for the storage of materials that are buoyant, flammable, explosive, or injurious to human, animal, or plant life.

E. <u>Incompatible Use Prohibited</u>

Lands lying within the Floodplain District shall not be used for any solid waste disposal site or on-site soil absorption sanitary sewerage system site, or the construction of any well which is used to obtain water for ultimate human consumption.

F. <u>Floodplain Ordinance</u>

See Appendix A

3.23 HISTORIC PRESERVATION DISTRICT (RESERVED)

3.24 GROUNDWATER PROTECTION OVERLAY DISTRICT

The Village Board of the Village of Slinger recognizes that the people of the Village of Slinger depend exclusively on groundwater for a safe drinking water supply and that certain land uses in the Village of Slinger environmental setting can seriously degrade water quality. Therefore, the designated best use of the unconfined groundwater of the Village of Slinger is for public and private water supply and it is the policy of the Village to maintain its groundwater resources as near to the natural condition of purity as reasonably possible for the safeguarding of the public health, safety, and welfare.

The purpose of the Groundwater protection Overlay District is to protect key groundwater recharge areas by imposing appropriate land-use restrictions in these areas. Wisconsin Act 410, 1983, specifically includes groundwater protection among the purposes for which local zoning power may be exercised. The restrictions included herein are in addition to those of the underlying zoning districts or any other provisions of the zoning or other Village ordinance.

A. <u>Designation of Municipal or Private Well Field Groundwater Protection Zones</u>

The boundaries for the groundwater recharge protection zones for the groundwater Protection Overlay District are as shown on the map "Groundwater Protection Districts for the Village of Slinger Well Fields" dated February 24, 1993. (See Fig. A1 for examples of proposed wellhead protection zones for Well Field #5).

Said map is hereby adopted by reference becoming a part of this ordinance as if the map were fully described herein. The goundwater recharge basins for the designated well fields are divided into three zones reflecting the potential for land-use activities to adversely impact the well fields and the subsequent scope of land-use restrictions needed.

B. Zone A - Groundwater Protection Overlay District

- 1. Zone A is the immediate area around the well field, commonly known as the cone of depression, in which groundwater elevations are lowered by pumping. This area is subject to the highest contaminant threat, and therefore, the land use restrictions are the most severe of the recharge zones.
- 2. The following uses are permitted:
 - (a) Parks/Playgrounds
 - (b) Archery Ranges
 - (c) Boat Landings

- (d) Other Natural Uses Wildlife Areas Wild Crops Non-Motor Trails (Bike, Skiing, Nature, Fitness) Hunting/Fishing/Trapping
- 3. The following uses are permitted upon proper application as provided in this ordinance, only after such use shall have been approved in writing by the Planning Commission. Such approval shall be consistent with the general purpose and intent of this ordinance and shall be based upon evidence as may be presented at such public hearings, tending to show the desirability of specific uses from the standpoint of the public interest because of such factors as (without limitation because of enumeration) groundwater pollution, smoke, dust, noxious or toxic gases and odors, noise, glare, vibration, operation of heavy machinery, heavy vehicular traffic, increased traffic on the streets and other safety and health factors; such uses shall meet the specific conditions attached below and such other conditions as the Plan Commission deems necessary in furthering the purpose of this ordinance.
- 4. The following use is expressly prohibited in this zone:
 - (a) All uses not permitted or special exception in this section.
- 5. The following standards apply to all uses in Zone A of the Groundwater Protection Overlay District:
 - (a) On-site sanitary system with any type of discharge on lots less than 40,000 sq. ft.
 - (b) Underground tanks prohibited.
 - (c) Natural vegetation not treated with fertilizers and pesticides A minimum of 85% of lot must be retained in natural vegetation.
 - (d) Lot Size 40,000 sq. ft. per residential unit. Multiple family units and cluster developments may increase density by 50% if restrictive covenant maintains natural vegetation requirement.
 - (e) Pesticide/fertilizer storage and use (including septage and sludge landspreading) Prohibited except for normal home use and by special case-by-case review.
 - (f) Animal waste facility or landspreading prohibited.
 - (g) Stormwater and drain discharge direct subsurface drainage prohibited. Discharge of hazardous materials prohibited. All surface runoff and drain construction must provide a means for collection or containment in the event of a hazardous materials spill.
 - (h) Salt storage prohibited.
 - (i) Hazardous/toxic materials storage and use prohibited except for normal home use.
 - (j) Hazardous/toxic wastes on-site treatment, transfer, or disposal prohibited.
- C. Zone B Groundwater Protection Overlay District
 - 1. Zone B is the recharge area up-gradient of Zone A to the point where it is

estimated that groundwater and contaminants will take five (5) years to reach the pumping well(s). This is an intermediate zone and land use measures are slightly less restrictive than Zone A because of the longer flow times and greater contaminant dilution and attenuation potential.

- 2. The following uses are permitted:
 - (a) Residential
 - (b) Parks/Playgrounds
 - (c) Shooting Ranges
 - (d) Boat Landings
 - (c) Campgrounds
 - (d) Natural Uses -

Wildlife Areas, Wild Crops, Non-Motor Trails (Bike, Skiing, Nature, Fitness) Hunting/Fishing/Trapping

- 3. The following uses are permitted upon proper application as provided in this ordinance, particularly items (a) and (b) of Subparagraph 6.6.2(A)(3), only after such use shall have been approved in writing by the Planning Commission, after Public Hearing. Such approval shall be consistent with the general purpose and intent of this ordinance and shall be based upon evidence as may be p resented at such Public Hearing, tending to show the desirability of specific uses from the standpoint of the public interest because of such factors as (without limitation because of enumeration) groundwater pollution, smoke, dust, noxious or toxic gases and odors, noise, glare, vibration, operation of heavy machinery, heavy vehicular traffic, increased traffic on the streets and other safety and health factors; such uses shall be required to conform with the plan approved by the Plan Commission and shall meet the specific conditions attached below and such other conditions as the Plan Commission deems necessary in furthering the purpose of this ordinance.
 - (a) All uses not permitted or prohibited in this section.
- 4. The following uses are expressly prohibited in this zone:
 - (a) Landfills
 - (b) Feedlots
 - (c) Wastewater Treatment Facilities
 - (d) Junkyard
 - (e) Gas Stations/Garages
 - (f) Toxic/Hazardous Waste Facilities
 - (g) Radioactive Waste Facilities
 - (h) Bulk Fertilizer/Pesticide Facilities
 - (i) Asphalt Products Manufacturing
 - (j) Chemical Manufacture/Storage/Sale
 - (k) Dry Cleaning Facilities
 - (l) Electroplating Facilities

- (m) Exterminating Shops
- (n) Paint/Coating Manufacturing
- (o) Printing/Publishing Facilities
- (p) All Uses Requiring Use or Storage of Hazardous of Toxic Materials
- 5. The following standards apply to all uses in Zone B of the Groundwater Protection Overlay District:
 - (a) On-site sanitary system with any type of discharge for residential use: One system per one (1) acre.
 - (b) Underground tanks tanks less than 500 gallons are prohibited; other tank installations require monitoring wells, overflow prevention, corrosion-resistant construction, monthly reports and inspections, and spill/leak contingency plan.
 - (c) Natural vegetation not treated with fertilizers and pesticides a minimum of 80% of lots with on-site sewage disposal must be retained in natural vegetation. A minimum of 60% of lots with municipal sewer must be retained in natural vegetation. A minimum of 60% of lots with municipal sewer must be retained in natural vegetation.
 - (d) Lot size for residential uses 20,000 sq. ft. per unit with municipal sewer, or one (1) acre with on-site sewage disposal. Multiple family and cluster developments may increase density by 50% if restrictive covenant maintains natural vegetation requirement in sewered areas or increases area of natural vegetation by 10% over minimum requirement in unsewered areas.
 - (e) Lot size for other uses one (1) acre minimum subject to (1) above.
 - (f) Pesticide/fertilizer storage and use (including septage and sludge landspreading) - prohibited except for normal home use or where an agricultural best-management practices plan approved by the county Land Conservation Department guides usage.
 - (g) Animal waste facility or landspreading waste facilities must be permitted under the Portage County Animal Waste Management Ordinance. A best-management practices plan approved by the county Land Conservation Department guides usage.
 - (h) Stormwater and drain discharge direct subsurface drainage prohibited. Discharge of hazardous materials prohibited. All surface runoff and drain construction must provide a means for collection or containment in the event of a hazardous materials spill.
 - (i) Salt storage prohibited.
 - (j) Hazardous/toxic materials storage and use prohibited except for normal home use (also see (6) above).
 - (k) Hazardous/toxic wastes on-site treatment, transfer, or disposal prohibited.

3.25 PUD - PLANNED UNIT DEVELOPMENT OVERLAY DISTRICT

The PUD - Planned Unit Development Overlay District is intended to permit developments that will, over a period of time, be enhanced by coordinated area site planning, diversified location of structures, diversified building types, and/or mixing of compatible uses. Such developments are intended to provide a safe and efficient system for pedestrian and vehicle traffic; to provide attractive recreation and green spaces as integral parts of the developments; to enable economic design in the location of public and private utilities and community facilities; and to ensure adequate standards of construction and planning. The PUD Overlay District under this ordinance will allow for flexibility of overall development design with benefits from developer and the community, while at the same time maintaining insofar as possible, the land use density and other standards, or use requirements set forth in the underlying basic zoning district.

A. <u>Permitted Uses</u>

Uses permitted in a Planned Unit Development Overlay District shall conform to uses generally permitted in the underlying basic use district. Individual structures shall comply with the specific building area and height requirements of the underlying basic use district. All green space and parking requirements of the underlying basic use district shall be complied with either individually or by providing the combined green space and parking space required for the entire development in one (1) or more locations within the development.

B. <u>Minimum Area Requirements</u>

1. The Village Plan Commission shall be the authority in establishing the required size of any Planned Unit Development Overlay District. Areas designated as such shall be under single or corporate ownership or control, and shall contain a minimum development area of:

Principal Uses		Minimum Area of PUD
(a)	Residential PUD	2 Acres
(b)	Business PUD	3 Acres
(c)	Industrial PUD	10 Acres
(d)	Mixed Compatible Use	5 Acres

C. <u>Procedural Requirements</u>

- 1. <u>Pre-Petition Conference.</u> Prior to the official submission of the petition for the approval of a Planned Unit Development Overlay District, the owner or his agent making such petition shall meet with the Village staff to discuss the scope and proposed nature of the contemplated development.
- 2. <u>Petition.</u> Following the pre-petition conference, the owner or his agent may file a petition, including the information contained on the "PUD Petition Form," available at the Village Offices with the Village Clerk for approval of

a Planned Unit Development Overlay District. Such petition shall be accompanied by a review fee, as required by the Village Board pursuant to Section 14.01 of this ordinance.

- 3. <u>Referral to Plan Commission</u>. The petition for a Planned Unit Development Overlay District shall be referred to the Village Plan Commission for its review and recommendation, including any additional conditions or restrictions which it may deem necessary or appropriate.
- 4. <u>Public Hearing</u>. The Village Plan Commission shall hold a Public Hearing pursuant to the requirements of Section 12.00 and 13.00 of this ordinance. Notice for such hearing shall include reference to the development plans filed in conjunction with the requested Planned Unit Development Overlay District. As soon as is practical following the hearing, the Plan Commission shall report its findings and recommendations to the Village Board. Said recommendations shall be included in the form of a "PUD Development Agreement" to be entered into between the Village Board and the Developer.

D. Basis for Approval of the Petition

The Village Plan Commission in making its recommendation, and the Village Board in making its determination, shall consider:

- 1. That the petitioners for the proposed Planned Development Overlay District have indicated that they intend to begin the physical development of the PUD within nine (9) months following the approval of the petition and that the development will be carried out according to a reasonable construction schedule satisfactory to the Village.
- 2. That the proposed Planned Unit Development Overlay District is consistent in all respects to the purpose of this Section and to the spirit and intent of this ordinance; is in conformity with the adopted Master Plan or any adopted component thereof; and that the development would not be contrary to the general welfare and economic prosperity of the community.

The Village Plan Commission in making its recommendations, and the Village Board in making its determination shall further find that:

- (a) The proposed site shall be provided with adequate drainage facilities for surface and storm waters.
- (b) The proposed site shall be accessible from public roads that are adequate to carry the traffic that can be expected to be generated by the proposed development.
- (c) No undue constraint or burden will be imposed on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas by the proposed development.

- (d) The streets and driveways on the site of the proposed development shall be adequate to serve residents of the proposed development and shall meet the minimum standards of all applicable ordinances or administrative regulations of the Village.
- (e) Centralized water and sewer facilities shall be provided.
- (f) The entire tract or parcel of land to be included in a Planned Unit Development Overlay District shall be held under single ownership, or if there is more than one (1) owner, the petition for such Planned Unit Development Overlay District shall be considered as one (1) tract, lot, or parcel; and the legal description must define said PUD as a single parcel, lot, or tract and be so recorded with the Register of Deeds for Washington County.

That in the case of a proposed *Residential* Planned Unit Development Overlay District:

- (a) Such development will create an attractive residential environment of sustained desirability and economic stability, including structures in relation to terrain, consideration of safe pedestrian flow, ready access to recreation space, and coordination with overall plans for the community.
- (b) The total net residential density within the Planned Unit Development Overlay District will be consistent with, and not exceed the average intensity and density of development permitted in the underlying basic use district. Conservancy and Floodplain Conservancy Districts shall not comprise more than thirty (30) percent of the underlying zoning district green space requirement.
- (c) Provision has been made for the installation of adequate public facilities, and the continuing maintenance and operation of such facilities.
- (d) Adequate, continuing fire and police protection is available.
- (f) The population composition of the development will not have an adverse affect upon the community's capacity to provide needed school, or other municipal service facilities.
- (g) Adequate guarantee is provided for permanent preservation of green space areas as shown on the approved Site Plan, either by private reservation and maintenance, or by dedication to the public.

That in the case of a proposed Business Planned Unit Development Overlay District:

- (a) The proposed development will be adequately served by offstreet parking and truck service facilities.
- (b) The proposed development shall be adequately provided with and shall not impose any undue burden on public services and facilities such as fire and police protection, street maintenance, and maintenance of public areas.

- (c) The locations for entrances and exits have been designated to prevent unnecessary interference with the safe and efficient movement of traffic on surrounding streets, and the development will not create an adverse effect upon the general traffic pattern of the surrounding neighborhood.
- (d) The architectural design, landscaping, control of lighting, and general site development will result in an attractive and harmonious service area compatible with, and not adversely affecting the property values of the surrounding neighborhood.

That in the case of a proposed *Industrial* Planned Unit Development District:

- (a) The operational character, physical plant arrangement, and architectural design of buildings will be compatible with the latest in performance standards and industrial development design and will not result in adverse effect upon the property values of the surrounding neighborhood.
- (b) The proposed development shall be adequately provided with and shall not impose any undue burden on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas.
- (c) The proposed development will include adequate provisions for offstreet parking and truck service areas and will be adequately served by rail and/or arterial highway facilities.
- (d) The proposed development is properly related to the total transportation system of the community and will not result in an adverse effect on the safety and efficiency of the public streets.
- (e) No residential structures shall be permitted in an Industrial PUD.

That in the case of a *Mixed Use* Planned Unit Development Overlay District:

- (a) The proposed mixture of uses produces a unified composite which is compatible within the underlying district and which, as a total development entity is compatible with the surrounding neighborhood.
- (b) The various types of uses conform the general requirements as hereinbefore set forth, applicable to projects of such use and character.
- (c) The proposed development shall be adequately provided with, and shall not impose any undue burden on public services and facilities, such as fire and police protection, street maintenance, and maintenance of public areas.

E. <u>Determination</u>

The Village Board, after due consideration, may, upon the recommendation of the Planning Commission, deny the petition, approve the petition as submitted, or approve the petition subject to additional conditions and restrictions. The approval of a Planned Unit Development Overlay District shall be based upon and include as conditions thereto the building, site and operational plans for the development as approved by the Village Board.

F. Changes & Additions

- 1. <u>Preliminary Determination</u>. All proposed changes, revisions, and additions to any aspect of an approved Planned Unit Development project shall be submitted to the Zoning Administrator for review. The Zoning Administrator, in collaboration with the Village Engineer, Village Planner, and Village Administrator, shall review the proposed change to determine if it would be considered a minor change or a major change. In making their determination, Village staff shall consider if the proposed change would substantially affect the intended design of the project or would adversely affect nearby properties or nearby uses.
- 2. <u>Minor Changes</u>. If the change is determined to be minor, Village staff shall collaboratively review the request and may deny or approve the change without approval by the Planning Commission. The Planning Commission shall be fully informed of the proposed change at a meeting subsequent to the decision by staff to deny or approve any minor change.
- 3. <u>Major Change</u>. If the requested change is determined by Village Staff to be a major change because of its affect on the intended design of the project or on neighboring uses, a public hearing shall be held by the Planning Commission to review the request. The Commission's recommendation shall be forwarded to the Village Board for final action.

G. <u>Subsequent Land Division</u>

The division of any land or lands within a Planned Unit Development Overlay District for the purpose of change or conveyance of ownership shall be accomplished pursuant to the land division regulations of the Village and when such division is contemplated, a Preliminary Plat of the lands to be divided shall accompany the petition for PUD approval.

H. <u>Recordation of Permit</u>

Following approval by the Village Board, said Planned Unit Development Agreement shall be recorded as a covenant running with the land. Cost of recording shall be borne by the petitioner.

3.26 CONSERVATION SUBDIVISION OVERLAY (CSO) DISTRICT

- A. <u>Purpose</u>. The Conservation Subdivision Overlay (CSO) District is established for the following purposes:
 - 1. To provide an Overlay District that may be used in conjunction with an underlying Residential Zoning District to promote development of Conservation Subdivisions.
 - 2. To preserve environmentally sensitive lands through permanent preservation of open space and natural resources with housing concentrated on portions of the site that have lower quality natural features.
 - 3. To provide open space areas that are commonly owned for passive and/or active recreational use by residents of the development, and where specifically established, for use by the general public.
 - 4. To minimize disturbance to environmentally sensitive areas, protect biological diversity, and maintain environmental corridors in their natural state to the extent practical.
 - 5. To preserve scenic views by minimizing views of new development from existing roads.
 - 6. To provide buffering between residential development and non-residential uses.
- B. <u>Definition of Conservation Subdivision</u>. A Conservation Subdivision is a housing development characterized by extensive open space where existing natural features of the land are maintained in their natural state to the extent practical. Residential dwellings in such subdivisions are located on portions of the site with lower quality natural features and should be adjacent to or overlook open space.
- C. <u>Platting Methods and Applicability of Other Regulations</u>. Conservation Subdivisions may be created by platting methods including Certified Survey Maps (CSM's) subdivision plats, or condominium plats. All of the Village's Land Development regulations applying to each of the platting methods shall be applicable to a Conservation Subdivision, except as may be permitted in this Section.
- D. <u>Uses</u>. In a Conservation Subdivision, the underlying Zoning District shall determine allowable uses.
- E. <u>Density and Lot Size Standards</u>. The maximum density of a Conservation Subdivision shall be determined by applying the minimum lot area in the underlying Zoning District to the entire parcel proposed for development. The minimum lot area in a Conservation Subdivision may be less than that required in the underlying District, but shall not be less than 10,000 square feet with sanitary sewer service, or not less than 30,000 square feet without sanitary service.

- F. <u>Setback and Yards</u>. The minimum setback and yard requirements in the underlying Zoning District may be modified in a Conservation Subdivision to provide flexibility in the siting of homes relative to the attributes of the individual lots or sites in the development. These requirements shall be established on an individual development basis and shall be determined prior to final plat approval. The minimum setback and yard requirements shall be shown on the final plat or CSM.
- G. <u>Minimum Living Area and Maximum Building Height</u>. Shall be as established in the underlying Zoning District.
- H. <u>Common Open Space</u>. A Conservation Subdivision shall provide Common Open Space as follows:
 - 1. A minimum of 40% of the subject parcel shall be common open space which shall be platted as one or more Outlots. Wetalnds, floodplains, floodways, ponds or natural water bodies may constitute a maximum of 60% of the minimum common open space area.
 - 2. Prior to any final approval action on a Conservation Subdivision, the Village Park Board shall review the proposed Common Open Space to determine if any public parklands or any other public land dedication is necessary in conjunction with the Conservation Subdivision.
 - 3. The ownership, maintenance, and stewardship of Common Open Space shall be accomplished by a Homeowners Association and/or Condominium Association in accord with Chapter 703 of Wisconsin Statutes. The subdivision applicant shall provide a description of the Bylaws of the proposed Association, and all documents governing the ownership, maintenance, and use restriction for common facilities. The Association shall be established by the owner of the subdivision developer prior to the sale of any lots or dwelling units in the development. All documents to establish such Association shall be approved by the Village Attorney prior to their use by the developer.
 - 4. No such Owner's Association shall be allowed to default and result in the Common Open Space being owned and maintained by the public.
 - 5. Each unit owner in a Conservation Subdivision shall have an undividable fractional ownership interest in the Common Open Space outlot(s).
 - 6. A deed restriction shall be established to prevent subdividing any Common Open Space which is part of a Conservation Subdivision.
 - 7. A Landscaping Plan and a Maintenance Plan for Common Open Space areas shall be approved by the Planning Commission prior to final plat approval.
 - 8. Any amendments to the Common Open Space documents after their initial approval shall be reviewed and approved by the Village Attorney prior to such amendments taking effect.
 - 9. The following uses are permitted in Common Open Space areas:
 - a. Conservation of open land in its natural state (for example, woodland, fallow field, or managed meadow).

- b. Silviculture, in keeping with established standards for selective harvesting and sustained-yield forestry.
- c. Neighborhood open space uses such as common areas, picnic areas, community gardens, trails, and similar low-impact passive recreational uses specifically excluding motorized off-road vehicles, rifle ranges, and other uses similar in character and potential impact as determined by the Planning Commission.
- d. Active non-commercial recreation areas, such as playing fields, playgrounds, courts, and bikeways, provided such areas do not encroach on environmentally sensitive areas. Playing fields, playgrounds, and courts shall not be located within 50 feet of abutting properties. Parking facilities for the same shall also be permitted.
- e. Golf courses may comprise the open space land. Their parking areas and any associated structures shall not be included within the minimum open space requirement; their parking and access ways may be paved and lighted.
- f. Water supply, water sources for the fire protection, sewage disposal system, and stormwater detention areas designed, landscaped, and available for use as an integral part of the open space.
- g. Easements for drainage, access, or other public purposes.
- h. Underground utility rights-of-way and street rights-of-way may traverse Common Open Space areas but shall not count toward the minimum required open space land.
- i. Agricultural uses limited to the growing of crops outdoors including nurseries, sod farms, orchards, forestry, commercial vegetables, and crops for livestock consumption, but not including dairying or the raising and feeding of livestock and poultry.
- j. Public use of Common Open Space may be allowed if agreed to by the Developer and the Village.
- I. Required Improvements and Design Standards. Required improvements and design standards related to Conservation Subdivisions may be modified to create a lower impact on the natural environment and provide a greater degree of environmental protection. Infrastructure requirements and modifications shall be reviewed on an individual development basis to determine the appropriate infrastructure based on each site's unique attributes.
- J. <u>Financial Guarantees and Impact Fees</u>. Financial guarantees, including those required as part of a Conventional Subdivision Development Agreement, and impact fees, shall be applied to a Conservation Subdivision.

3.27 SHORELAND ZONNG OVERLAY DISTRICT

A. <u>Purpose and Statutory Authorization</u>. Uncontrolled use of shorelands and pollution of the navigable waters of the municipality would adversely affect the public health, safety, convenience, and general welfare and impair the tax base. The Legislature of Wisconsin has delegated responsibility to all municipalities to:

1. Promote the public health, safety, convenience and general welfare;

2. Limit certain land use activities detrimental to shorelands, and

3. Preserve shore cover and natural beauty by controlling the location of structures in shoreland areas and restricting the removal of natural shoreland vegetation.

This ordinance is adopted pursuant to the authorization in Wisconsin Stat. Sec. 61.35 and 61.353 and Year 2013 Wisconsin Act 80.

B. General Provisions.

1. Compliance & Uses. The use of shorelands within the shoreland area of the municipality shall be in full compliance with the terms of this ordinance and other applicable local, state, or federal regulations. All permitted development shall require the issuance of a zoning permit unless otherwise expressly excluded by a provision of this ordinance.

Permitted uses, accessory uses, and conditional uses shall be in accord with underlying zoning district regulations except as may be regulated or restricted in this Section.

2. Municipalities & State Agencies Regulated. Unless specifically exempted by law, all cities, villages, towns, and counties are required to comply with this ordinance and obtain all necessary permits. State agencies are required to comply if Wis. Stat. Sec 13.48 (13) applies.

3. Abrogation & Greater Restrictions. This ordinance supersedes all the provisions of any other applicable municipal ordinance except that where another municipal ordinance is more restrictive than this ordinance, that ordinance shall continue in full force and effect to the extent of the greater restrictions, but not otherwise.

This ordinance is not intended to repeal, abrogate or impair any existing deed restrictions, covenants or easements. However, where this ordinance imposes greater restrictions, the provisions of this ordinance shall prevail.

4. Interpretation. In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements and shall be liberally construed in favor of the municipality and shall not be deemed a limitation or repeal of any other powers granted by the Wisconsin Statutes or Wisconsin Constitution.

5. Severability. Should any portion of this ordinance be declared invalid or unconstitutional by a court of competent jurisdiction, the remainder of this ordinance shall not be affected.

6. Applicability of Shoreland district Regulations. The Shoreland Zoning District regulations apply only to the following shorelands:

a. A shoreland that was annexed by the Village of Slinger after May 7, 1982, and that prior to annexation was subject to a county shoreland zoning ordinance under Wis. Stat. Sec 59.692; and

b. A shoreland that before incorporation by the Village of Slinger was part of a town that was subject to a county shoreland zoning ordinance under Wis. Stat. Sec. 59.692 if the date of the incorporation was after April 30, 1994.

C. <u>District Boundaries</u>. The Shoreland District areas regulated by this ordinance shall include all the lands (referred to herein as shorelands) in the Village of Slinger that are:

1. Within 1,000 feet of the ordinary high water mark of navigable lakes, ponds or flowages. Lakes, ponds or flowages shall be presumed to be navigable if they are listed in the Wisconsin Department of Natural Resources Surface Water Data viewer available on the DNR website, or are shown on United States Geological Survey quadrangle maps or other zoning maps.

2. Within 300 feet of the ordinary high water mark of navigable rivers or steams, or to the landward side of the floodplain, whichever distance is greater. Rivers and streams shall be presumed to be navigable if they are designated as continuous waterways or intermittent waterways on United States Geological Survey quadrangle maps. Flood hazard boundary maps, flood insurance rate maps, flood boundary-floodway maps, county soil survey maps or other existing county floodplain zoning maps shall be used to delineate floodplain areas.

3. Determinations of navigability and ordinary high water mark location shall initially be made by the Zoning Administrator. When questions arise, the Zoning Administrator shall contact the appropriate district office of the Wisconsin Department of Natural Resources for a final determination of navigability or ordinary high water mark.

4. Pursuant to Wis. Stat. Sec. 61.353(7) or 62.233, the Shoreland Zoning District does not include lands adjacent to an artificially constructed drainage ditch, pond, or retention basin if the drainage ditch, or retention basin is not hydrologically connect to a natural navigable water body.

D. <u>Effect of Existing land Division, Sanitary, Zoning & other Regulations</u>. The lands within the Shoreland Zoning District are subject to all applicable provisions of the Village of Slinger Municipal Code. Where the provisions of this ordinance are more restrictive than other regulations in the Municipal code, the provisions of this ordinance shall apply.

E. Setbacks from the OHWM.

1. Principal Building Setbacks.

a. All principal building shall be set back at least 50 feet from the ordinary high water mark.

b. Adjustment of Shore Yards. A setback less than that required by subsection E.1. a. may be allowed if all of the following apply:

1. The principal building is constructed or placed on a lot or parcel of land that is immediately adjacent on each side to a lot or parcel of land containing a principal building; and

2. The principal building is constructed or placed within a distance equal to the average setback of the principal building on the adjacent lots or 35 feet from the ordinary high water mark, whichever distance is greater.

2. Accessory Building Setbacks.

Buildings accessory to permitted and conditional uses may be located within a shoreyard but:

- a. Shall not be closer than 25 feet to the ordinary high water mark.
- b. Shall not be used for human habitation or animal shelter.
- c. Shall not be placed in the vegetative buffer zone required in Section F.

F. <u>Vegetative Buffer Zone</u>. Pursuant to Wis. Stat. Sec 61.353(3), a landowner shall maintain a vegetative buffer zone as follows:

1. A person who owns shoreland property that contains vegetation shall maintain that vegetation in a vegetative buffer zone along the entire shoreline of the property and extending 35 feet inland from the ordinary high water mark of the navigable water, except as provided in Section F. 2.

2. If the vegetation in a vegetative buffer zone contains invasive species or dead or diseased vegetation, the owner of the shoreland property may remove the vegetation, except that if the owner removes all of the vegetative buffer zone, the owner shall establish a vegetative buffer zone with new vegetation.

3. A person who is required to maintain or establish a vegetative buffer zone under viewing or access corridor that is no greater than 30 feet wide for every 100 feet of shoreline frontage and extends no more than 35 feet inland from the ordinary high water mark. On parcels with less than 100 feet of shoreline frontage, the width of the vegetative buffer zone shall be a minimum of 30% of the shoreline frontage.

G. Definitions. In this ordinance:

1. "Ordinary High Water Mark" (OHWM) is the boundary along the bank or shoreline up to which the water, by its presence, flow or wave action, leaves a distinct mark on the bank or shoreline. The OHWM may be indicated by erosion, destruction of or change in vegetation or other easily recognizable characteristics. The OHWM may be delineated on subdivision plats, certified survey maps or other survey documents.

2. "Principal Building" means the main building or structure on a single lot or parcel of land and includes any attached garage or attached porch.

3. "Shorelands" has the meaning given in Wis. Stat. Sec. 59.692 (1)(b).

4. "Shoreland setback area" has the meaning given in Wis. Stat. Sec 59.692(1)(bn).

Niphos Coatings Inc- Former BRRTS 02-67-561163 Case Closure Request

ATTACHMENT F.4

SIGNED STATEMENT

F.4 Statement of Accurate Legal Description

To the best of my knowledge, the property legal description depicted on the current deed and referenced by the local assessor's office as "V Slinger ADDN to 1st ADDN, Lot 9+PT Lot 10 BLK 5, Doc 1127008, Sec 18-10-19, 0.32 ac." in the Village of Slinger, County of Washington, State of Wisconsin, is complete and accurate.

This information accurately depicts the contaminated property associated with the following Wisconsin Department of Natural Resources Remediation and Redevelopment site located in Slinger, Wisconsin.

19

BRRTS # 02-67-561163 Niphos Coatings Inc. - Former

Joseph Steier II

on behalf of washington county the property owner Affiliation with Property

ATTACHMENT G

Notifications to Owners of Affected Properties

Table of Contents

Title	Status	Explanation (if applicable)
G.1 Deed	Not Applicable	
G.2 Certified Survey Map	Not Applicable	
G.3 Verification of Zoning	Not Applicable	
G.4 Signed Statement	Not Applicable	