

**CWA COMPLIANCE EVALUATION INSPECTION REPORT
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5**

Purpose:

Compliance Evaluation Inspection

Facility:

National Maintenance & Repair Incorporated
401 South Hawthorn Street
Hartford, Illinois 62048
Madison County
38.83049250658026, -90.10714556993825

Mailing Address:

National Maintenance & Repair Incorporated
P.O. Box 38
Hartford, Illinois 62048

NPDES ICIS Tracking Number: IL0068055 and ILP000420

Date of Inspection: March 23, 2023

EPA Representatives:

Benjamin Atkinson, Inspector, 312-353-8243 atkinson.ben@epa.gov
Cheryl Burdett, Inspector, 312-886-1463 burdett.cheryl@epa.gov

State Representatives: None

Facility Representatives:

Jeff Poston, General Manager, 618-334-0273 jposton@nmrinc.com
Rick Naugle, Hull Manager, 618-225-2614 rnaugle@nmrinc.com
Travis Flowers, Gas Free Manager, 618-610-7048 TFlowers@nmrinc.com
Nate Brooks, Environmental Consultant, 618-372-3740 NateBrooks@EnviroLifeConsulting.com

Inspector Signature: Atkinson, Benjamin Digitally signed by Atkinson, Benjamin
Date: 2023.05.26 19:05:54 -05'00'

Approver Name and Title: Ryan J. Bahr, Section 2 Supervisor, Water Enforcement and Compliance
Assurance Branch

Approver Signature and Date: RYAN BAHR Digitally signed by RYAN BAHR
Date: 2023.05.30 12:59:52 -05'00'

1. BACKGROUND

The purpose of this report is to describe, evaluate and document the National Maintenance & Repair Incorporated facility's (the Facility) compliance with the Clean Water Act (CWA). This inspection was performed pursuant to Section 308(a) of the Federal Water Pollution Control Act, as amended.

The Facility is a shipyard and repair operation which provides marine and rail repair services. The Facility falls under SIC codes 3731 – Shipbuilding & Repairing and 4491 – Marine Cargo Handling. The Facility is comprised of both water borne and land-based facilities. The Facility discharges sanitary and pretreated wastewater to a gravity sewer in Hartford, IL which ultimately discharges to the City of Wood River Wastewater Treatment Plant. The discharge to the sewer includes wastes collected at the Gas Free Plant which undergo pretreatment prior to discharge to the sewer. The Facility's Gas Free Plant cleans tank barges which have been used to transport chemical or petroleum cargos. Discharges from the Gas Free Plant fall under the requirements of 40 CFR Part 422 Subpart C – Tank Barges and Ocean/Sea Tankers Transporting Chemical and Petroleum Cargos. The Facility has a State of Illinois permit (Permit No. 2020-EP-65303) to operate the pretreatment system at the Gas Free Plant. Permit No. 2020-EP-65303 was issued July 1, 2020 and expires May 31, 2025.

The Facility has coverage under NPDES Permit No. IL0068055 (the Permit) which authorizes discharges at three outfall locations. The three outfalls all discharge to the Mississippi River. Outfalls 001 and 002 are stormwater outfalls. Outfall 003 is barge list water (water used at the Gas Free Plant to fill a barge's forward or aft void compartments to cause the vessel to list there by aiding the wash operations). The Permit was issued and became effective March 10, 2017 and had an expiration date of February 28, 2022. The Facility has submitted their reapplication and are requesting alternative Total Suspended Solids effluent limits for Outfall 003.

2. Facility Information

The Facility provides marine and rail repair services. These services include: barge/towboat repairs; new construction and refurbishment; drydocks; outdoor sandblasting and painting; engine sales, installation, and repairs; steering system and cylinder repairs; propeller repairs; metal fabrications, shaft and rudder repair; gas free certifications; fuel sales and service; and electrical repairs. including floating cranes, a machine shop, a fabrication shop, a propeller shop, an engine shop, parts warehouse, outdoor storage yard, and the Gas Free Plant. The Facility has approximately 125 employees. The main shipyard operates 24/6 Monday – Saturday. The Gas Free Plant operates two shifts (7:00 AM – 3:30 PM and 3:30 PM – 12:00 AM). The Facility sits on approximately 18 acres. Approximately 10 acres of the site, containing the Machine Shop, Warehouse, Engine Shop, Propeller Shop, Yard Storage, and Component Rebuild, are surrounded by a levee. The stormwater from the area within the levee is collected at two points and manually pumped to Outfalls 001 and 002. Mr. Nate Brooks of EnviroLife Consulting LLC conducts the quarterly visual observations of the discharges and annual facility inspection associated with the Permit. The Facility personnel noted that they had experienced recurring problems meeting limits at Outfall 003. The Facility personnel stated that the background levels of pollutants in the intake water from the Mississippi exceeded their discharge limits and that, as a result of settling, the discharged water often contained lower levels of pollutants than when pumped into the barge voids. Table 1, below, shows effluent exceedances associated with Outfall 003 for the period of October 2018 – March 2023. For that period, there were 36 reported exceedances.

Table 1. Effluent Exceedances at Outfall 003

Parameter	Limit	Units	Limit Type	Monitoring Month	DMR Value	Units	% Exceedance
Solids, total suspended	15	mg/L	30DA AVG	11/30/2018	39	mg/L	160
Solids, total suspended	30	mg/L	DAILY MX	11/30/2018	39	mg/L	30
Solids, total suspended	15	mg/L	30DA AVG	12/31/2018	45	mg/L	200
Solids, total suspended	30	mg/L	DAILY MX	12/31/2018	45	mg/L	50
Iron, total [as Fe]	2	mg/L	30DA AVG	12/31/2018	2.4	mg/L	20
Solids, total suspended	15	mg/L	30DA AVG	1/31/2019	32	mg/L	113
Solids, total suspended	30	mg/L	DAILY MX	1/31/2019	32	mg/L	7
Iron, total [as Fe]	2	mg/L	30DA AVG	1/31/2019	2.07	mg/L	4
Solids, total suspended	15	mg/L	30DA AVG	2/28/2019	52	mg/L	247
Solids, total suspended	30	mg/L	DAILY MX	2/28/2019	52	mg/L	73
Iron, total [as Fe]	2	mg/L	30DA AVG	2/28/2019	3.24	mg/L	62
Solids, total suspended	30	mg/L	DAILY MX	11/30/2019	39	mg/L	30
Solids, total suspended	15	mg/L	30DA AVG	11/30/2019	39	mg/L	160
Solids, total suspended	30	mg/L	DAILY MX	2/29/2020	40	mg/L	33
Solids, total suspended	15	mg/L	30DA AVG	2/29/2020	40	mg/L	167
Solids, total suspended	30	mg/L	DAILY MX	3/31/2020	32	mg/L	7
Solids, total suspended	15	mg/L	30DA AVG	3/31/2020	32	mg/L	113
Solids, total suspended	15	mg/L	30DA AVG	8/31/2020	28	mg/L	87
Solids, total suspended	30	mg/L	DAILY MX	9/30/2020	49	mg/L	63
Solids, total suspended	15	mg/L	30DA AVG	9/30/2020	49	mg/L	227
Iron, total [as Fe]	2	mg/L	30DA AVG	9/30/2020	2.08	mg/L	4
Solids, total suspended	15	mg/L	30DA AVG	4/30/2021	21	mg/L	40
Solids, total suspended	30	mg/L	DAILY MX	5/31/2021	41	mg/L	37
Solids, total suspended	15	mg/L	30DA AVG	5/31/2021	41	mg/L	173
Iron, total [as Fe]	2	mg/L	30DA AVG	5/31/2021	2.12	mg/L	6
Solids, total suspended	15	mg/L	30DA AVG	12/31/2021	17	mg/L	13
Solids, total suspended	15	mg/L	30DA AVG	3/31/2022	24	mg/L	60
Solids, total suspended	15	mg/L	30DA AVG	5/31/2022	27	mg/L	80
Solids, total suspended	15	mg/L	30DA AVG	6/30/2022	30	mg/L	100
Solids, total suspended	15	mg/L	30DA AVG	9/30/2022	16	mg/L	7
Solids, total suspended	30	mg/L	DAILY MX	2/28/2023	64	mg/L	113
Solids, total suspended	15	mg/L	30DA AVG	2/28/2023	64	mg/L	327
Iron, total [as Fe]	2	mg/L	30DA AVG	2/28/2023	3.42	mg/L	71
Solids, total suspended	30	mg/L	DAILY MX	3/31/2023	38	mg/L	27
Solids, total suspended	15	mg/L	30DA AVG	3/31/2023	38	mg/L	153
Iron, total [as Fe]	2	mg/L	30DA AVG	3/31/2023	2.36	mg/L	18

The pretreatment system at the Gas Free Plant consists of a series of six settling/oil separation barge compartments (total capacity of 403,200 gallons), a 5,000 gallon surge tank with belt skimmer, a three compartment chemical reaction unit, a 6 ft. diameter by 7.5 ft. deep recycle pressurization dissolved air flotation unit, a 300 gallon sludge conditioning tank, a 500 gallon sludge holding tank, a 10 cubic ft. plate type filter press, a 60 gallon pH adjust tank, and a 30,000 gpd DAF (43,000 gpd DMF). At the time of the inspection, the plate filter press was non-operational. Oil recovered during the barge cleaning operations is either burned in the Facility's boiler or sold as waste oil. Chemicals used in the pretreatment system include: Caustic - BULAB 959, 3 Ach - BULAB 5091, Sulfuric acid, Nitrogen, Microbe PLUS, Polymer - BULAB 5545, Ach - WC 368, and Phosphorus. Mr. Purrander "Pete" Cornwell (the Operator) is the pretreatment plant operator and has a Class K Wastewater Treatment Works Operator certification. The Operator collects samples in accordance with the Illinois EPA Water Pollution Control Permit. Samples are picked up and analyzed by Tek Lab of Collinsville. The Operator stated that the pH reported in the monthly monitoring reports was the pH measured by the lab. At the time of the Inspection, no baseline report as required by 40 CFR 403.12 was known to have been submitted to the US EPA, the Control Authority. Monthly monitoring reports, as required by the Illinois EPA Water Pollution Control Permit, are submitted by the Facility to IEPA, Village of Hartford, and the City of Wood River. The Illinois EPA Water Pollution Control Permit also requires submittal of those monthly monitoring reports to the US EPA; however, the Facility has not included US EPA on those submittals. At the time of the Inspection, no Periodic Reports on Continued Compliance as required by 40 CFR 403.12(e) are known to have been submitted to the Control Authority. At the time of the Inspection, the Facility was not aware of any exceedances of pretreatment limits in the previous two years.

The Facility additionally has an Air Permit IL000119801AAE and is a large quantity Hazardous Waste Generator. Hazardous Waste is collected and disposed of by Safety Kleen. There is a pond within the levee which is Owned by Nicor National and is an archived superfund site.

3.1 Facility Inspection - Interview

EPA Inspectors Ben Atkinson and Cheryl Burdett (the Inspectors) arrived at the Facility at approximately 11:50 AM. The Inspectors were met by Mr Jeff Poston and Mr Rick Naugle and led to a conference room. The Inspectors introduced themselves, presented their credentials, and explained the purpose of the inspection. Following introductions, the Inspectors explained that they would like to begin with the interview portion of the inspection followed by a walkthrough of the Facility including the pretreatment operation. The Inspectors also notified the Facility of their ability to claim information as Confidential Business Information (CBI). No information was claimed as CBI at that time.

The Inspectors began by asking for general Facility information including address, NICS/SIC codes, pre-treatment permit information, number of employees, and operating schedule, and a brief explanation of the industrial activity that took place on-site. This information is included in the previous sections.

The Inspectors were joined by Mr. Travis Flowers. The Inspectors asked the facility to provide an explanation of the pretreatment operations at the Facility. The information provided is included in the previous section.

3.2 Facility Inspection – Walkthrough

Following the Interview portion of the inspection, the Inspectors left the site to obtain the required PPE and returned. The Inspectors began the walkthrough of the Facility at the Gas Free Plant. The Inspectors walked across the walkway bridge to the Pretreatment Barge and observed the oil/water separation and storage barges at the Gas Free Plant (photos 1 and 2). The Inspectors then walked into the Pretreatment Building on the Pretreatment Barge and observed the pretreatment system including the Surge Tank (photos 3 and 4). An outboard motor was observed on the side of the Surge Tank. Facility Personnel stated this was not part of treatment. The Inspectors then observed the three-part Reaction Tank, Dissolved Air Flotation unit, and pH adjustment tanks (photos 5-9). The Inspectors observed the composite sampler used to collect BOD and COD samples required by the Illinois EPA Water Pollution Control Permit (photo 10). The Inspectors then walked around and observed the other side of the three-part Reaction Tank and Dissolved Air Flotation Tank (photo 11). The Inspectors then observed the control panel and flow meter panel along the wall (photo 12).

The Operator then showed the Inspectors his Wastewater Treatment Works Operator Certificate (photo 14). The Inspectors then observed the barrels of coagulant, caustic, and acid used in treatment (photos 15 and 16).

The Inspectors then walked to the north end of the Gas Free Plant and observed the hoses used to pump the list water into and out of the barges being serviced (Outfall 003) (photos 17-19). While walking back south across the oil/water separation barges, the Inspectors observed a pool of green liquid on the deck of one of the barges (photo 20). The Inspectors asked what the pool of green liquid was and the facility personnel stated that they didn't know what it was, that it was unusual, and that it would be cleaned up soon.

The Inspectors walked back south to the Pretreatment Barge and observed storage totes holding sludge from the Dissolved Air Flotation unit waiting to be hauled away (photos 26, 27, and 29). The Inspectors also observed multiple barrels of caustic to be used for pH adjustment in the pretreatment process. The Operator stated that adjustments in the operation of the pretreatment system resulted in a reduced need for the caustic resulting in a surplus supply.

The Inspectors walked back to shore and drove back to the north side of the facility and recommenced the inspection within the levee. The Inspectors observed the area in the southeast of the levee where waste storage is located. The Inspectors when walked to the collection point for Outfall 002 (photos 31-33). The Inspectors then walked north and observed the Yard Storage area (photo 34). The Inspectors continued north and observed a Frac tank which is used to store liquid waste from the Engine Shop (photo 35). The Inspectors observed an area where runoff from the storage area is collected and pumped to the Frac tank (photos 36-42). The Inspectors continued north and west and observed the collection pit for Outfall 001 at the loading dock (photos 43- 45). The Inspectors then walked north over the levee and observed where Outfall 001 outlets to the gravel lot north of the levee (photos 46 and 47). The Inspectors then walked southwest and observed the outlet of Outfall 002 along the east bank of the Mississippi River (photos 48 and 49).

The Inspectors then returned to the conference room and prepared for the closing conference.

5. Closing Conference

The Inspectors held a closing conference during which they requested the following documents and information.

- 1) SIC Code
- 2) List of chemicals used in pretreatment
- 3) Flow diagram of pretreatment process
- 4) The last six months of monthly monitoring data for the pretreatment program
- 5) A copy of the Industrial stormwater permit
- 6) A copy of the SWPPP
- 7) The last six months of inspection/sampling related to Industrial Stormwater
- 8) A copy of the baseline report as described in 40 CFR 403.12 if one had been previously submitted.

The Facility Personnel stated that they would make the documents electronically available.

The requested information was provided by email on April 6, 2023. No baseline monitoring report was known by the Facility to have been submitted, The Facility did submit the Raw Wastewater Analysis – 2020, Treated Wastewater Analysis – 2020, and Wastewater Pollution Control Permit -2022 ANNUAL report as additional information.

The Inspectors then shared the following areas of the concern identified during the Inspection:

- 1) It was noted that the Illinois EPA Water Pollution Control Permit required pH to be sampled in accordance with 40 CFR 136 methods and that those methods dictate a 15-minute holding time for pH samples. To the extent that reported values are provided by lab, the samples were likely not meeting that holding time.
- 2) The Baseline Monitoring Report and Periodic Reports on Continued Compliance as required by 40 CFR 403.12 were not submitted to U.S.EPA.

Following the review of the submitted documents, EPA has identified the following additional areas of concern:

- 1) The exceedances of Total Suspended Solids from Outfall 003.
- 2) The exceedances of Iron from Outfall 003.
- 3) NPDES Permit IL0068055 Special Condition 8 E 1 requires “A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body.” No topographic map was observed in the Stormwater Pollution Prevention Plan.
- 4) NPDES Permit IL0068055 Special Condition 8 E 6 requires “A summary of existing sampling data describing pollutants in storm water discharges.” No such summary was found in the Stormwater Pollution Prevention Plan.
- 5) The green liquid observed on the deck of the oil/water separation barge (photo 20) may have the potential to discharge pollutants to the Mississippi river.

List of appendices:

Appendix 1 – Aerial Map

Appendix 2 - Photo Log

Appendix 3 – Pretreatment System Diagram and Operation Procedures

Appendix 4 – Most Recent 6 Months of Pretreatment Monthly Monitoring Reports

Appendix 5 – Most Recent 6 Months of NDPES Permit DMRs

Appendix 6 – Quarterly Stormwater Outfall Observation for 2022 4th Qtr. and 2023 1st Qtr.

Appendix 7 – NPDES Permit IL0068055

Appendix 8 – SWPPP

Appendix 9 - Illinois EPA Water Pollution Control Permit

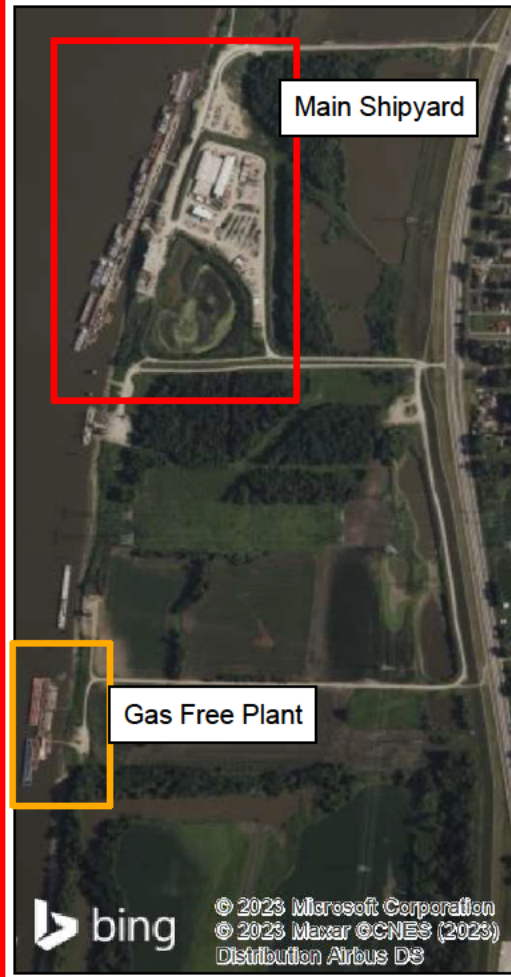
Appendix 10 – Raw Wastewater Analysis – 2020

Appendix 11 – Treated Wastewater Analysis – 2020

Appendix 12 -- Wastewater Pollution Control Permit -2022 Annual Priority Pollutants Report

Appendix 13 – 2023 Annual Stormwater Report

Appendix 1



National Maintenance & Repair Incorporated
401 South Hawthorn Street
Hartford, Illinois 62048
Madison County
38.83049250658026, -90.10714556993825

Legend

— Property Line



Appendix 2

National Maintenance & Repair, Inc.
EPA Inspection March 23, 2023
All photos taken by Ben Atkinson, Enforcement Officer, U.S. EPA
Camera: PENTAX Optio WG-1 GPS



1: IMGP0012

Description: Looking north along the oil/water separation and storage barges at the Gas Free Plant.

Location: North end of the Pretreatment Barge at the Gas Free Plant.

Camera Direction: North

Date/Time: March 23, 2023 2:54 PM



2: IMGP0013

Description: Looking north along the oil/water separation and storage barges at the Gas Free Plant.

Location: North end of the Pretreatment Barge at the Gas Free Plant.

Camera Direction: North

Date/Time: March 23, 2023 2:54 PM



3: IMGP0014

Description: Surge Tank in Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge.

Camera Direction: South

Date/Time: March 23, 2023 2:57 PM



4: IMGP0015

Description: Surge Tank in Pretreatment Barge at the Gas Free Plant. Note the outboard motor hanging on the side of the Surge Tank. Facility Personnel stated that this was not part of the treatment.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: South

Date/Time: March 23, 2023 2:57 PM



5: IMGP0016

Description: Three part Reaction Tank in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 2:58 PM



6: IMGP0017

Description: Three part Reaction Tank in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 2:58 PM



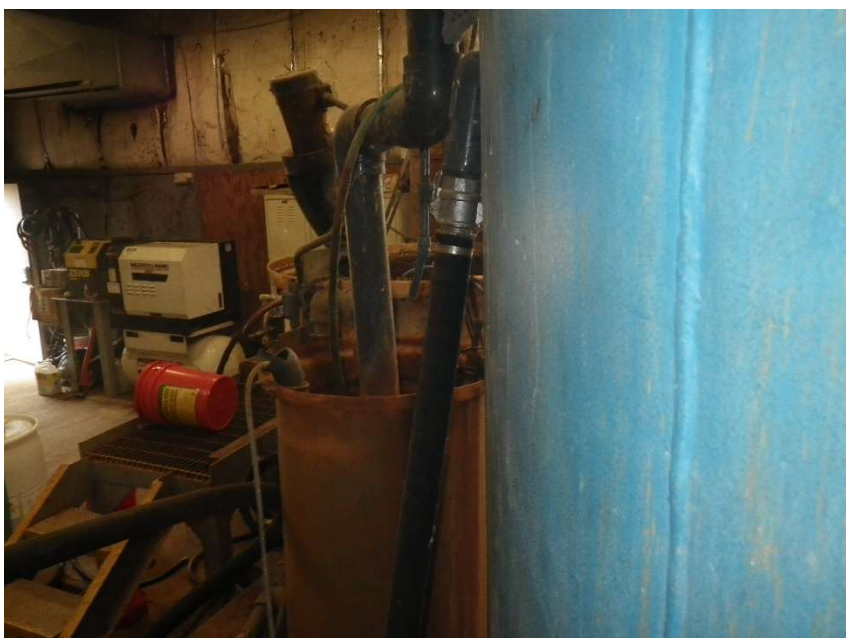
7: IMGP0018

Description: Dissolved Air Flotation Tank in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 2:58 PM



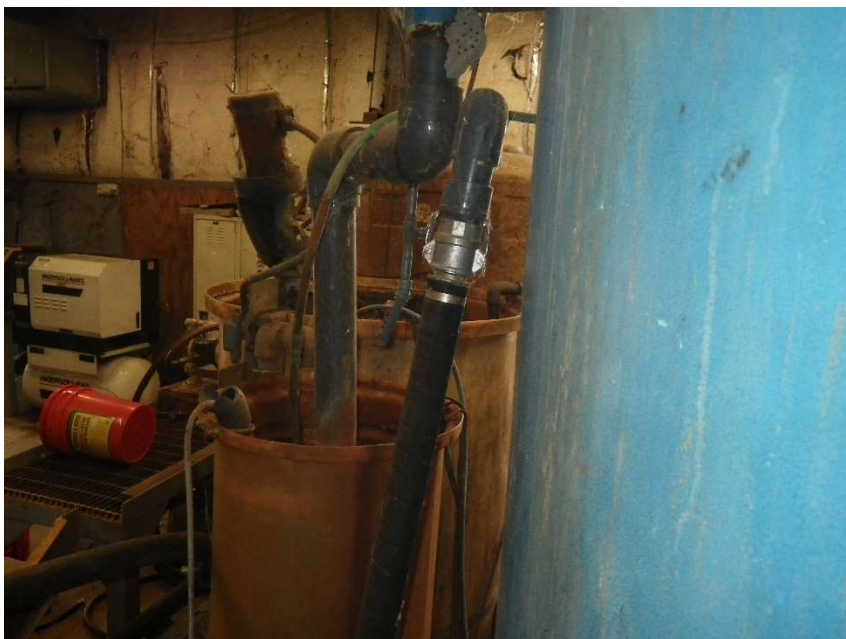
8: IMGP0019

Description: Dissolved Air Flotation Tank in the Pretreatment Barge at the Gas Free Plant (blue tank), pH Adjustment Tank (near), and Sludge Conditioning Tank (behind pH Adjustment Tank).

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: Northeast

Date/Time: March 23, 2023 2:59 PM



9: IMGP0020

Description: Dissolved Air Flotation Tank in the Pretreatment Barge at the Gas Free Plant (blue tank), pH Adjustment Tank (near), and Sludge Conditioning Tank (behind pH Adjustment Tank).

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: Northeast

Date/Time: March 23, 2023 3:00 PM



10: IMGP0021

Description: Composite Sampler located in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:01 PM



11: IMGP0022

Description: Three part Reaction Tank (left) and Dissolved Air Flotation Tank (right) located in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: Northwest

Date/Time: March 23, 2023 3:03 PM



12: IMGP0023

Description: Control panel and flow meter along the west wall of the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:03 PM



13: IMGP0024

Description: Piping connecting tanks in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: South

Date/Time: March 23, 2023 3:04 PM



14: IMGP0025

Description: Industrial Pretreatment Operator Certificate.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: Southeast

Date/Time: March 23, 2023 3:12 PM



15: IMGP0026

Description: Coagulant, caustic, and acid drums supplying chemical feeds for treatment to the pretreatment process in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:18 PM



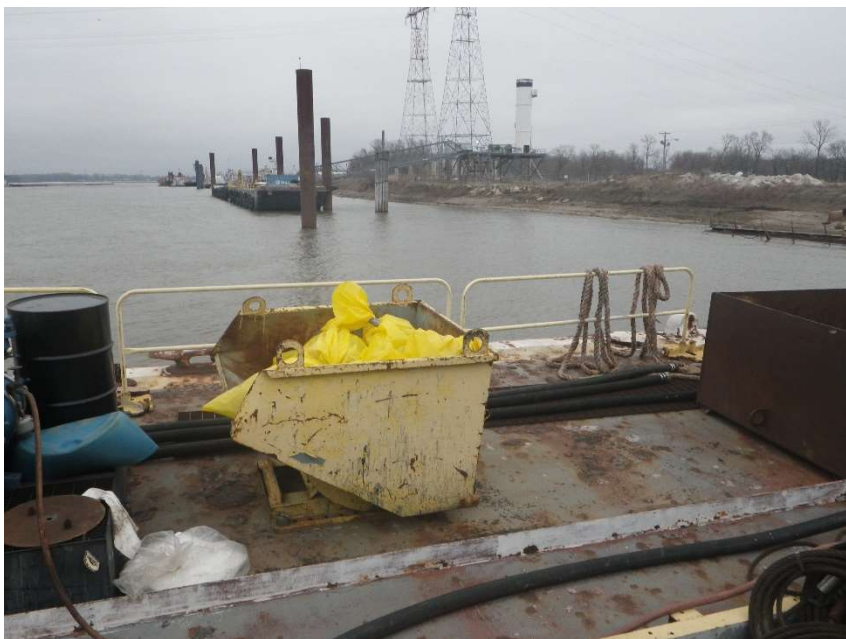
16: IMGP0027

Description: Coagulant, caustic, and acid drums supplying chemical feeds for treatment to the pretreatment process in the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:18 PM



17: IMGP0028

Description: Garbage collection bin at the north end of the Gas Free Plant barges.

Location: North End of the Gas Free Plant Barges.

Camera Direction: North

Date/Time: March 23, 2023 3:23 PM



18: IMGP0029

Description: Outfall 003. Hoses at the north end of the Gas Free Plant barges. These hoses are used to fill the void compartments of barges to cause the vessel to list. Following the washing operation, the list water is pumped from the void compartment back to the Mississippi River.

Location: North end of the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 3:24 PM



19: IMGP0030

Description: Outfall 003. Hoses at the north end of the Gas Free Plant barges. These hoses are used to fill the void compartments of barges to cause the vessel to list. Following the washing operation, the list water is pumped from the void compartment back to the Mississippi River.

Location: North end of the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 3:27 PM



20: IMGP0031

Description: A green liquid was observed on the deck of one of the oil/water separation barges.

Location: Oil/water separation barge at the Gas Free Plant.

Camera Direction: East

Date/Time: March 23, 2023 3:30 PM



21: IMGP0032

Description: Mistake Photo

Location:

Camera Direction:

Date/Time: March 23, 2023 3:31 PM



22: IMGP0033

Description: Looking north along the oil/water separation and storage barges at the Gas Free Plant.

Location: Oil/water separation barge at the Gas Free Plant.

Camera Direction: North

Date/Time: March 23, 2023 3:32 PM



23: IMGP0034

Description: Looking north along the oil/water separation and storage barges at the Gas Free Plant.

Location: Oil/water separation barge at the Gas Free Plant.

Camera Direction: North

Date/Time: March 23, 2023 3:32 PM



24: IMGP0035

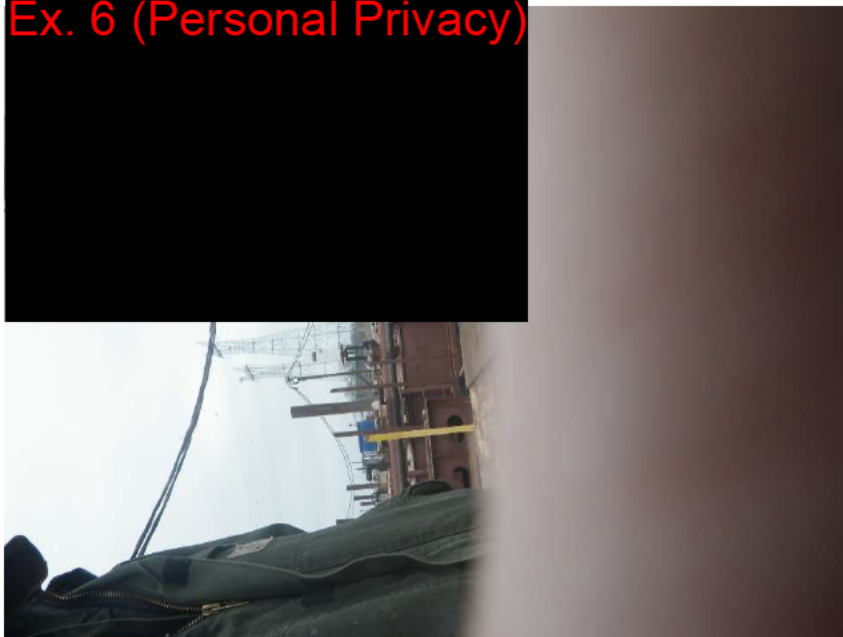
Description: Stormwater collection drain on surface of oil/water separation barge at the Gas Free Plant.

Location: oil/water separation barge at the Gas Free Plant.

Camera Direction: Down

Date/Time: March 23, 2023 3:33 PM

Ex. 6 (Personal Privacy)



25: IMGP0036

Description: Mistake photo.

Location: Gas Free Plant.

Camera Direction: NA

Date/Time: March 23, 2023 3:33 PM



26: IMGP0037

Description: Totes filled with sludge from the Dissolved Air Flotation unit waiting to be hauled away.

Location: Outside the Pretreatment Barge at the Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:35 PM



27: IMGP0038

Description: Totes filled with sludge from the Dissolved Air Flotation unit waiting to be hauled away.

Location: Outside the Pretreatment Barge at the Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:35 PM



28: IMGP0039

Description: Barrels of caustic intended to be used to adjust pH in the pretreatment operation. Changes in operation of the system reduced the volume of caustic needed resulting in a surplus supply.

Location: Outside the Pretreatment Barge at the Gas Free Plant.

Camera Direction: West

Date/Time: March 23, 2023 3:36 PM



29: IMGP0040

Description: Entrance to the pretreatment building on the Pretreatment Barge.

Location: Pretreatment Barge at Gas Free Plant.

Camera Direction: Southwest

Date/Time: March 23, 2023 3:38 PM



30: IMGP0041

Description: Walkway to the Pretreatment Barge at the Gas Free Plant.

Location: Pretreatment Barge at the Gas Free Plant.

Camera Direction: Southeast

Date/Time: March 23, 2023 3:38 PM



31: IMGP0042

Description: Stormwater collection pit and pump for Outfall 002.

Location: Stormwater collection pit south of the Propeller Shop.

Camera Direction: Southwest

Date/Time: March 23, 2023 3:54 PM



32: IMGP0043

Description: Stormwater collection pit and pump for Outfall 002.

Location: Stormwater collection pit south of the Propeller Shop.

Camera Direction: South

Date/Time: March 23, 2023 3:54 PM



33: IMGP0044

Description: Stormwater collection pipe inlet south of Yard Storage area.

Location: South of Yard Storage area.

Camera Direction: South

Date/Time: March 23, 2023 3:55 PM



34: IMGP0045

Description: Looking North at Yard Storage area east of Propeller Shop.

Location: North of Stormwater collection pit.

Camera Direction: North

Date/Time: March 23, 2023 3:57 PM



35: IMGP0046

Description: Frac tank which is used as liquid waste storage for the Engine Shop. This area has multiple fuel storage tanks and waste tanks. Runoff from this area would flow to the collection pit which is pumped to the Frac Tank. The Frac Tank is emptied as needed to the Gas Free Plant for treatment.

Location: South of the Engine Shop.

Camera Direction: West

Date/Time: March 23, 2023 3:59 PM



36: IMGP0047

Description: Collection pit for runoff from this area which is pumped to the Frac Tank and does not discharge to the site's stormwater outfalls.

Location: South of the Engine Shop.

Camera Direction: South

Date/Time: March 23, 2023 4:01 PM



37: IMGP0048

Description: Collection pit for runoff from this area which is pumped to the Frac Tank and does not discharge to the site's stormwater outfalls.

Location: South of the Engine Shop.

Camera Direction: Southwest

Date/Time: March 23, 2023 4:01 PM



38: IMGP0049

Description: Drain which collects runoff and conveys it to the collection pit for pumping to the Frac Tank.

Location: South of the Engine Shop.

Camera Direction: Down

Date/Time: March 23, 2023 4:02 PM



39: IMGP0050

Description: Waste storage drums stored in area where runoff is collected and pumped to frac tank.

Location: South of the Engine Shop.

Camera Direction: South

Date/Time: March 23, 2023 4:02 PM



40: IMGP0051

Description: Waste storage drums stored in area where runoff is collected and pumped to frac tank.

Location: South of the Engine Shop.

Camera Direction: South

Date/Time: March 23, 2023 4:02 PM



41: IMGP0052

Description: Secondary containment around fuel barrels. EPA observed that the red hose protruding over the edge of the secondary containment led down to the collection pit which is pumped to the frac tank. The hose was observed to not be conveying any liquid at the time of the inspection.

Location: South of the Engine Shop.

Camera Direction: West

Date/Time: March 23, 2023 4:03 PM



42: IMGP0053

Description: Secondary containment around fuel barrels stored in area where runoff is collected and pumped to frac tank.

Location: South of the Engine Shop.

Camera Direction: Southeast

Date/Time: March 23, 2023 4:04 PM



43: IMGP0054

Description: Collection grate for Outfall 001 located in the loading dock.

Location: North side of the Machine Shop, within the levee perimeter.

Camera Direction: Down

Date/Time: March 23, 2023 4:07 PM



44: IMGP0055

Description: Collection grate for Outfall 001 located in the loading dock.

Location: North side of the Machine Shop, within the levee perimeter.

Camera Direction: Southwest

Date/Time: March 23, 2023 4:07 PM



45: IMGP0056

Description: Manhole cover over the collection pit for Outfall 001.

Location: North side of the Machine Shop, within the levee perimeter.

Camera Direction: Down

Date/Time: March 23, 2023 4:08 PM



46: IMGP0057

Description: Outfall 001 located north of the Machine shop outside the levee perimeter. Outfall 001 discharges to the gravel parking lot.

Location: Outside the levee perimeter north of the Machine Shop.

Camera Direction: South

Date/Time: March 23, 2023 4:11 PM



47: IMGP0058

Description: Looking southeast from along the northern levee perimeter from Outfall 001.

Location: Outside the levee perimeter north of the Machine Shop.

Camera Direction: Southeast

Date/Time: March 23, 2023 4:11 PM



48: IMGP0059

Description: Outfall 002 which discharges to the Mississippi River just north of the Office Building.

Location: East bank of the Mississippi River north of the Office Building.

Camera Direction: Southwest

Date/Time: March 23, 2023 4:15 PM



49: IMGP0060

Description: Outfall 002 which discharges to the Mississippi River just north of the Office Building.

Location: East bank of the Mississippi River north of the Office Building.

Camera Direction: South

Date/Time: March 23, 2023 4:15 PM

Appendix 3

46 of 57

TABLE I
NATIONAL WASTE TREATMENT SEQUENCE

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
1A	Sump	Level Rises	Level rises in Holding Sump. Barge cleaning wastewater begins treatment.
1B	1LS-LO	Energizes	Level rises above N.O. Float.
2A	1LS-HI	Energizes	Level rises above N.O. Float.
2B	1TDR	Begins timing	Adjustable Time Delay, set at 15 minutes.
2C	1M	Recycle Pump Starts	Adjust Recycle Control Valve for a back pressure of 40 psi to achieve a flow of 35 gpm.
	SV1	Solenoid energizes	Adjust air flow at rotameter so that a stable air-water interface is maintained in the Pressure Tank. Expected air settings are 60 psi and 10 C.F.H.
3A	1TDR	Times out	
3B	Air Pump SV-3	Feed Pump starts	Adjust Air Flow and Pressure for desired Feed Rate. Optimum Rate provides 75-80% System on time. Expected rate will be 20 gpm.
		Solenoid Energizes	
3C	4M	Mixer starts	Coagulant/Reaction Mixer runs.
3D	5M	Mixer starts	Caustic/Reaction Mixer runs.
3E	PU1	Coagulant Pump starts	Set pump stroke length and frequency to add the required dosage of coagulant.

TABLE I
NATIONAL WASTE TREATMENT SEQUENCE
 (continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
3F(1)	PU-2	Caustic pump starts & runs at variable frequency	Caustic Pump stroke rate is set by caustic/Rxn Tank pH Meter Controller (pH-1) output signal, in response to hold pH setpoint set in controller. Pump stroke length is manually adjustable at pump; set stroke length for controller output of greater than 20% for normal operation.
3F(2)	PU-2	Stops/starts	If pH rises above HIGH setpoint on Controller (pH-1), pump stops until pH falls below setpoint.
3G	PU-3	Flocculant Pump starts	Set pump stroke length and frequency to add the required dosage of flocculant.
3H	3TMR (on Panel Door)	Alternating timing cycles	Adjust Skimmer Flip-Flop (on-off) Timer to hold correct sludge bed depth.
3H(1)	3TMR (Panel Door) 2M Air Pump SV2 4TDR	Off Cycle times out On Cycle begins timing Skimmer starts Sludge Pump runs Solenoid energizes Timer Resets	Adjust pump air pressure to achieve pump out of float trough in time allowed, level rises in Sludge Holding Tank
3H(2)	3TMR (Panel Door) 5M 4TDR	On Cycle times out Off Cycle begins timing Skimmer stops Begins Timing	Timer allows sludge pump to continue operation. Set timer to allow for complete pump out of float sludge trough.
3H(2B)	4TDR Air Pump SV-2	Times Out Pump stops Solenoid closes	

48 of 576

TABLE I
NATIONAL WASTE TREATMENT SEQUENCE
(continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
3J	Effluent Tank	Level rises	Clarified flow passes to Effluent Tank; low level switch energizes.
3K (1)	2LS-LO	Energizes	
	2LS-H1	Energizes	High level switch energizes
	3M	Effluent Pump Starts	Effluent is pumped through the final filter, a 20 micron bag filter set in a perforated stainless steel basket. When level continues to rise in the Effluent Tank, the filter will require a bag change.
3K (2)	2LS-LO	De Energizes	Effluent Pump will cycle on-off while treatment is in progress.
	3M	Pump Stops	
3L	6M	Mixer Starts	Effluent Mixer Runs
3M	PU-4	Starts/Stops	If pH rises above setpoint on Effluent pH controller (pH-2, Relay A), the Effluent Acid Pump will energize and deliver acid until pH is proper. Set pump stroke length and frequency at pump.
3N	PU-5	Starts/Stops	If pH drops below setpoint on Effluent pH Controller (pH-2, Relay B) the Effluent Caustic Pump will energize and deliver caustic until pH is proper. Set pump stroke length and frequency at pump.
SYSTEM TREATS WASTEWATER			
4	Sump	Level drops	Sump level drops
5A	1LSLO	De-energizes	
5B	2TDR	Begins timing	Adjustable time delay, set at 10 minutes.
5C	Air Pump	Stops	Feed Pump stops.

49 of 56

TABLE I
NATIONAL WASTE TREATMENT SEQUENCE
(continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
5D	PU-1	Stops	Coagulant Pump stops.
5E	PU-2	Stops	Caustic Pump stops.
5F	4M	Mixer stops	
5G	5M	Mixer stops	
6A	2TDR	Times out	
6B	1M SV-1	Pump stops Solenoid closes	Recycle Pump Stops Process Air Closes
6C	PU-3	Flocculant Pump stops	
6D	3TMR (Panel Door) 2M Air Pump SV-2	De-energizes Skimmer stops Stops Closes	 Sludge Pumps stop.
6E	3M	Pump stops	
6F	6M	Mixer stops	
6G	PU-4	Pump stops	
6H	PU-5	Pump stops	

SYSTEM RETURNS TO EVENT 1

50 of 576

TABLE II
NATIONAL SLUDGE HANDLING SEQUENCE

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
1	Sludge Holding	Level Rises	Refer to Table I, Event 3H and Table III, Event 2B.
2A	4LS-HIAL	Energizes	High Level Alarm advises operator to prepare to transfer sludge. Sludge may be transferred prior to alarm if sufficient sludge is available.
2B	Valves	Positioned	Operator positions suction and discharge valving on Sludge Pump for Sludge Transfer operation.
2C	Selector	Positioned	Operator selects "sludge transfer" position on selector switch.
3A	Pushbutton	Pressed	Operator presses start pushbutton.
3B	SV-6 Air Pump	Energizes Starts	Sludge Pump Transfers sludge from Sludge Holding Tank to sludge conditioning tank; pump operators at "Low Rate"; set pressure regulator for 40 PSI.
4	3LSXLOLO	Energizes	Level rises in Conditioning Tank
5A	3LSXLO	Energizes	Level rises above mixer propeller.
5B	7M	Mixer Runs	Level is sufficient to cover mixer prop; mixer runs.
6	3LSHIAL	Energizes	The advisory pilot light "Sludge Conditioning Tank Hi Level" is energized at the alarm panel. The Operator is advised that transfer is almost complete and attention is required for the next step.

51 of 56

TABLE II
NATIONAL SLUDGE HANDLING SEQUENCE
(continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
7A	3LSHi	Energizes	Conditioning Tank full.
7B	Air Pump SV-6	Stops De-energizes	
8	Polymer Tank	Acknowledge	Operator acknowledges sufficient level in polymer tank.
9A	Air Pump SV-4	Starts Energizes	Operator pushes start button; sludge conditioning polymer pump, adds polymer to thicken sludge.
9B	5TDR	Begins Timing	Initially, is set for five minutes; proper polymer dose will determined by experience.
10A	5TDR	Times out	
10B	Air Pump SV-4	Stops De-energizes	Preset amount of polymer has been added.
11	Valves/Selector	Positioned	Operator acknowledges sludge conditioning is complete and positions valves to fee filter press, and selector switch to "Press Feed"
12	Press	Is Ready	

TABLE II
NATIONAL SLUDGE HANDLING SEQUENCE
(continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
13A	Start PB Air Pump SV-6	Operator Presses Starts/Slow Rate Energizes	Press Pump runs at low rate for a predetermined time to gradually fill Press compartments. Set regulator for approximately 40 psi. Initial timer setting is at five minutes.
13B	6TDR	Begins Timing	
14A	6TDR	Times out	
14B	Air Pump SV-6 SV-5	Continues/High Rate De-energizes Energizes	Press Pump now runs at high rate for remainder of Press cycle. Do not exceed 100 psi on regulator.
15A	Holding Tank	Level Drops	
15B	Filter Press	Presses Sludge	
16A	3LSXLO	De-energizes	Level is expected to drop below float.
16B	3LSXLOLO	De-energizes	Level will likely drop below this float also.
16C	7M	Mixer Stops	Mixer stops when prop is no longer submerged.
17A	3LS-LO	De-energizes	If there is a low level in the Conditioning Tank, the Press Pump stops so that pressure will be held in the press. Sufficient sludge must be added and the Press Pump restarted to continue. Note: It is recommended to have sufficient sludge in Conditioning Tank before beginning the Press cycle so Event 17 need not occur
17B	Air Pump SV-5	Pump Stops De-energizes	

TABLE II
NATIONAL SLUDGE HANDLING SEQUENCE
(continued)

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
18	Press	Press Full	As the Press fills with sludge, the Press Pump strokes less frequently. At a rate of 1-4 strokes per hour, the Press may be opened, although further run time may result to drier sludge. Often, sludge levels in holding and storage tanks may dictate the duration of a Press cycle.
19	Selector Air Pump SV-5	Off Press Feed Pump Stops De-energizes	Operator selects pump off.
20	Valves	Positioned	Operator positions valves and introduces air during "Blowdown Step."
21	Press	Blowdown	Air permeates through pressed sludge, pushing filtrate from the press. Air will "break-through" (blow out air instead of water) each of the four filtrate line at different times, usually on the top two lines first. When air is "heard" at the drain, close that filtrate line (some "hunting" may be necessary); continue until all four filtrate lines blow through.
22	Air Valve	Closes	Blowdown finished. In preparation for next cycle.
23	Press Dumpster	Opens Fills	Operator opens Press and scoops out pressed sludge. Dumpster fills.

54 of 56

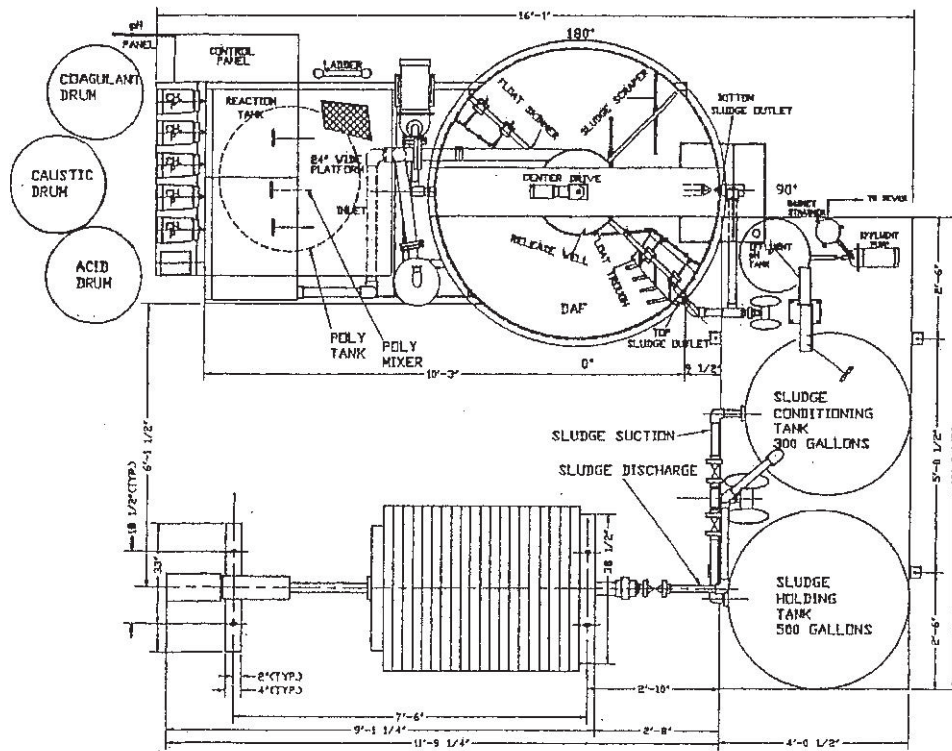
TABLE III
NATIONAL BOTTOM SLUDGE DRAW-OFF PROCEDURE

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
1			Operator determines draw-off of DAF Tank sludge is necessary. Frequency of draw-off procedure will be determined by experience.
2A	2M	Runs	Operator energizes by hand, Skimmer/Bottom Scraper. Run approximately 20 minutes to draw bottom sludge toward outlet.
2B	Air Pump SV-2	Sludge Pump starts Energizes	Sludge Pump is energized in Automatic when Skimmer runs.
3	Ball Valve	Opens	Operator opens drain valve by hand. Throttle valve opening if desired for possibly thicker sludge. After one minute or less, observe discharge, if possible, to determine length of drain-off step.
4A	2M	Stops	Operator terminates draw-off sequence.
4B	Ball Valve	Closes	
4C	4TDR	Begins Timing	
5A	4TDR SV-2 Air Pump	Times out Closes Sludge Pump stops	Sludge Pump Delay Timer runs.

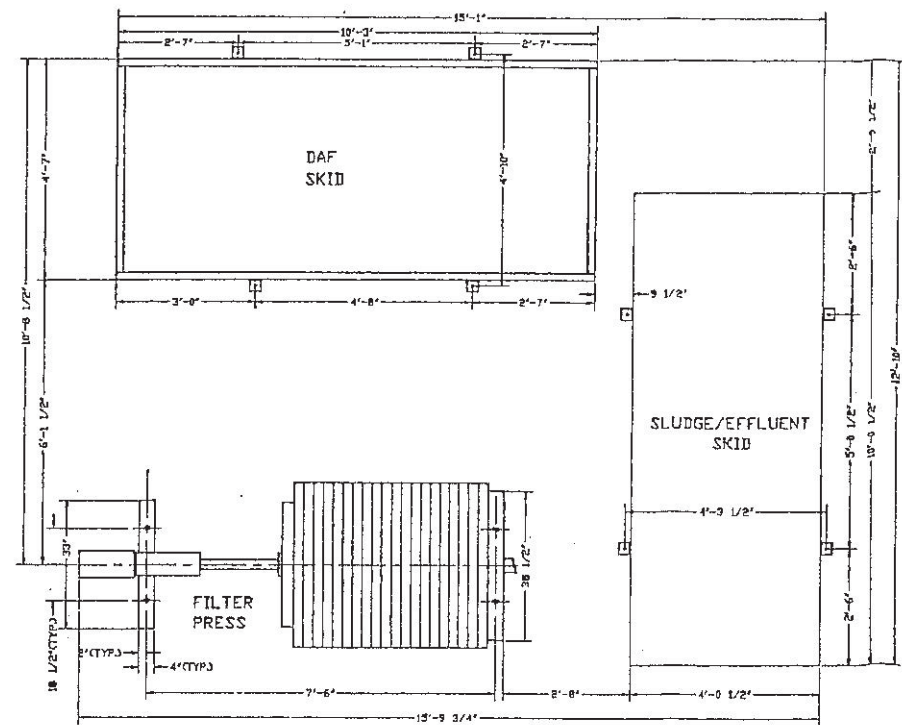
95-20-55

TABLE IV
NATIONAL FLOCCULANT MAKE-UP SEQUENCE

<u>EVENT</u>	<u>COMPONENT</u>	<u>COMPONENT ACTION</u>	<u>OPERATION ACTION/OBSERVATION</u>
1.	Holding Tank	Reaches low level	Operator observes low level; prepares to make-up flocculant.
2	Holding Tank	Fills	Operator opens city water fill valve and adds required amount of dilution water, or less, if using eductor for dry polymer.
3A	4M	Mixer starts	Operator manually turn on mixer.
3B	Polymer	Operator adds	Operator adds required amount of liquid flocculant or educts dry flocculant while further adding dilution water. Do not add dry polymer without using eductor.
4	4M	Mixer stops	Operator manually turns off mixer after sufficient mixing time (suggested time = 30-45 minutes) Flocculant type and dilution to be determined at start-up. Polymer Eductor must be utilized if Dry Polymer is being made-up.



LAYOUT



FOOT PRINT

SHIPPING WT. OF DAF SKID : 5,000 LBS APPROX.
 OPERATING WT. OF DAF SKID : 19,500 LBS APPROX.
 SHIPPING WT. OF SLUDGE SKID : 1,200 LBS APPROX.
 OPERATING WT. OF SLUDGE SKID : 9,000 LBS APPROX.
 SHIPPING WT. OF FILTER PRESS : 4,500 LBS APPROX.
 OPERATING WT. OF FILTER PRESS : 5,500 LBS APPROX.

1	9-18-98	GENERAL REVISION	JTM
REV	DATE	DESCRIPTIONS	BY
REVISIONS			

 TENCO HYDRO, INC. Industrial/Municipal Wastewater Equipment 4620 Forest Avenue, Brookfield, Illinois 60513/Telephone: (708) 387-0700			
THIS PRINT IS THE PROPERTY OF TENCO HYDRO INC. AND REPRESENTS ITS TECHNOLOGY. IT CANNOT BE USED, LOANED, COPIED, OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION. IT MUST BE RETURNED UPON NOTICE.	DRAWN	J. T. M	TITLE CLARI-FLOAT SYSTEM LAYOUT
	DATE	8-25-1998	
	SCALE	NONE	
	NO. 8218	DRAWING NO. B5-064002	
			REV. 1

PRINTED

NOV 06 1998

TENCO HYDRO, INC.

56 of 56

Appendix 4



October 13, 2022

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of September 2022.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks".

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2022.10.13 14:32:10 -05'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

September

2022

Month

Year

Grab Sample Analysis:

Sample Collected: **09/20/22**

Date

Hexane Extract Material:

<6 mg/L

Hexane Extract Material (SGT):

<6 mg/L

pH:

9.53

TSS:

15 mg/L

Mercury:

<0.00020 mg/L

Cadmium:

<0.0020 mg/L

Chromium:

<0.0050 mg/L

Copper:

<0.0050 mg/L

Lead:

<0.0150 mg/L

Nickel:

0.0493 mg/L

Zinc:

0.0302 mg/L

1-methylphenanthrene:

ND<0.030 mg/L

Bis(2-ethylhexyl)phthalate:

ND<0.038 mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **09/20/22**

Date

COD:

280 mg/L

BOD:

67 mg/L

Mid-Month Sample Analysis:

Sample Collected: **09/12/22**

Date

Hexane Extract Material:

--- mg/L

Hexane Extract Material (SGT):

<6 mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

September

2022

Month

Year

Number of Vessels Cleaned:

13

Commodities Contained in Vessels:

1. **Lube Oil**
2. **Slop Oil**
3. **Diesel Fuel**
4. **Xylenes**
5. **Gasoline**
6. _____
7. _____
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

13 days

Total Amount of Treated Wastewater:

228,198 gallons

Total Average per Day:

17,554 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



November 16, 2022

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of October 2022.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks".

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2022.11.16 11:52:48 -06'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

October **2022**

Month Year

Grab Sample Analysis:

Sample Collected: **10/25/22**

Date

Hexane Extract Material: <6 mg/L

Hexane Extract Material (SGT): <6 mg/L

pH: 6.89

TSS: 21 mg/L

Mercury: <0.00020 mg/L

Cadmium: <0.0020 mg/L

Chromium: <0.0050 mg/L

Copper: <0.0050 mg/L

Lead: <0.0150 mg/L

Nickel: 0.0553 mg/L

Zinc: 0.0632 mg/L

1-methylphenanthrene: ND<0.030 mg/L

Bis(2-ethylhexyl)phthalate: ND<0.038 mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **10/25/22**

Date

COD: 233 mg/L

BOD: <10 mg/L

Mid-Month Sample Analysis:

Sample Collected: **10/14/22**

Date

Hexane Extract Material: 6 mg/L

Hexane Extract Material (SGT): <6 mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

October

2022

Month

Year

Number of Vessels Cleaned:

8

Commodities Contained in Vessels:

1. **Xylene**
2. **Diesel Fuel**
3. **Ethanol Benzene**
4. **Glycol**
5. **Ethanol**
6. _____
7. _____
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

5 days

Total Amount of Treated Wastewater:

97,640 gallons

Total Average per Day:

19,528 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



December 16, 2022

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of November 2022.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks".

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2022.12.16 16:22:31 -06'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

November **2022**

Month Year

Grab Sample Analysis:

Sample Collected: **11/29/22**

Date

Hexane Extract Material: <6 mg/L

Hexane Extract Material (SGT): <6 mg/L

pH: 7.16

TSS: 7 mg/L

Mercury: <0.00020 mg/L

Cadmium: <0.0020 mg/L

Chromium: <0.0050 mg/L

Copper: <0.0050 mg/L

Lead: <0.0150 mg/L

Nickel: 0.0458 mg/L

Zinc: 0.0440 mg/L

1-methylphenanthrene: ND<0.030 mg/L

Bis(2-ethylhexyl)phthalate: ND<0.038 mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **11/29/22**

Date

COD: 194 mg/L

BOD: <10 mg/L

Mid-Month Sample Analysis:

Sample Collected: **11/14/22**

Date

Hexane Extract Material: <5 mg/L

Hexane Extract Material (SGT): <5 mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

November

2022

Month

Year

Number of Vessels Cleaned:

12

Commodities Contained in Vessels:

1. **Mixed Xylene**
2. **Diesel Fuel**
3. **Slop Oil**
4. **Hydraulic Oil**
5. **Ethanol**
6. **Lube Oil**
7. _____
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

5 days

Total Amount of Treated Wastewater:

74,753 gallons

Total Average per Day:

14,951 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



January 24, 2023

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of December 2022.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks".

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2023.01.24 12:11:46 -06'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

December

2022

Month

Year

Grab Sample Analysis:

Sample Collected: **12/13/22**

Date

Hexane Extract Material: **17** mg/L

Hexane Extract Material (SGT): **10** mg/L

pH: **7.60**

TSS: **30** mg/L

Mercury: **<0.00020** mg/L

Cadmium: **<0.0020** mg/L

Chromium: **<0.0050** mg/L

Copper: **<0.0050** mg/L

Lead: **<0.0150** mg/L

Nickel: **0.0527** mg/L

Zinc: **0.0504** mg/L

1-methylphenanthrene: **ND<0.030** mg/L

Bis(2-ethylhexyl)phthalate: **ND<0.038** mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **12/13/22**

Date

COD: **279** mg/L

BOD: **27** mg/L

Mid-Month Sample Analysis:

Sample Collected: **12/06/22**

Date

Hexane Extract Material: **10** mg/L

Hexane Extract Material (SGT): **9** mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

December

2022

Month

Year

Number of Vessels Cleaned:

5

Commodities Contained in Vessels:

1. **Mixed Xylene**
2. **Diesel Fuel**
3. **Slop Oil**
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

4 days

Total Amount of Treated Wastewater:

70,717 gallons

Total Average per Day:

17,679 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



February 15, 2023

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of January 2023.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks". The signature is fluid and cursive, with the first name "Nate" and last name "Brooks" clearly distinguishable.

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2023.02.15 15:02:11 -06'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

January **2023**

Month Year

Grab Sample Analysis:

Sample Collected: **01/26/23**

Date

Hexane Extract Material: 11 mg/L
Hexane Extract Material (SGT): <6 mg/L
pH: 7.21
TSS: 73 mg/L
Mercury: <0.00020 mg/L
Cadmium: <0.0020 mg/L
Chromium: <0.0050 mg/L
Copper: <0.0050 mg/L
Lead: <0.0150 mg/L
Nickel: 0.0578 mg/L
Zinc: 0.294 mg/L
1-methylphenanthrene: ND<0.060 mg/L
Bis(2-ethylhexyl)phthalate: ND<0.075 mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **01/26/23**

Date

COD: 1570 mg/L
BOD: 895 mg/L

Mid-Month Sample Analysis:

Sample Collected: **01/18/23**

Date

Hexane Extract Material: 6 mg/L
Hexane Extract Material (SGT): <6 mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

January

2023

Month

Year

Number of Vessels Cleaned:

13

Commodities Contained in Vessels:

1. **Xylene**
2. **Deisel Fuel**
3. **Slop Oil**
4. **Resin Oil**
5. **Thermal Oil**
6. **Hydraulic Oil**
7. **Jet Fuel**
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

9 days

Total Amount of Treated Wastewater:

149,727 gallons

Total Average per Day:

16,636 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



March 16, 2023

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the monthly monitoring results for the Water Pollution Control Permit No. 2020-EP-65303 for the month of February 2023.

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Nate Brooks".

Nathaniel Brooks
EnviroLife Consulting LLC

Digitally signed by Nathaniel Brooks
DN: cn=Nathaniel Brooks, o=EnviroLife Consulting LLC,
ou, email=natebrooks@envirolifeconsulting.com, c=US
Date: 2023.03.16 16:16:39 -05'00'





Water Pollution Control Permit
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Chemical Analysis for:

February

2023

Month

Year

Grab Sample Analysis:

Sample Collected: **02/23/23**

Date

Hexane Extract Material:

10 mg/L

Hexane Extract Material (SGT):

9 mg/L

pH:

7.06

TSS:

365 mg/L

Mercury:

<0.00020 mg/L

Cadmium:

<0.0020 mg/L

Chromium:

<0.0050 mg/L

Copper:

0.0103 mg/L

Lead:

<0.0150 mg/L

Nickel:

0.0477 mg/L

Zinc:

0.283 mg/L

1-methylphenanthrene:

ND<0.120 mg/L

Bis(2-ethylhexyl)phthalate:

ND<0.150 mg/L

8-Hour Composite Sample Analysis:

Sample Collected: **02/23/23**

Date

COD:

2220 mg/L

BOD:

1100 mg/L

Mid-Month Sample Analysis:

Sample Collected: **02/15/23**

Date

Hexane Extract Material:

12 mg/L

Hexane Extract Material (SGT):

<6 mg/L



Water Pollution Control Permit Report
Permit No. 2020-EP-65303
National Maintenance & Repair, Inc.

Monthly report for:

February

2023

Month

Year

Number of Vessels Cleaned:

9

Commodities Contained in Vessels:

1. **Slop Oil**
2. **Diesel Fuel**
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Wastewater Analysis Completed by:

Teklab, Inc. (Colinsville, IL)

Days Discharging Treated Wastewater to Sewer:

8 days

Total Amount of Treated Wastewater:

152,679 gallons

Total Average per Day:

19,085 gallons

Prepared for:

National
MAINTENANCE & REPAIR

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470

Appendix 5

DMR Copy of Record

Permit

Permit #:
Major:

IL0068055
No

Permittee:
Permittee Address:

NATIONAL MAINTENANCE & REPAIR, INC..
P.O. BOX 38
HARTFORD, IL 62048

Facility:
Facility Location:

NATIONAL MAINTENANCE & REPAIR, INC..
201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 09/01/22 to 09/30/22

DMR Due Date:

10/25/22

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:
Last Name:

Travis
Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00400	pH	1 - Effluent Gross	0	--	Sample						=	8.37			=	8.37	12 - SU	0	01/30 - Monthly	GR - GRAB
					Permit Req.						>=	6.0 MO MIN			<=	9.0 MO MAX	12 - SU		01/30 - Monthly	GR - GRAB
					Value NODI															
X 00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample									16.0	=	16.0	19 - mg/L	1	01/30 - Monthly	GR - GRAB
					Permit Req.								<=	15.0 30DA AVG	<=	30.0 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI															
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample								<	6.0	<	6.0	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								<=	15.0 30DA AVG	<=	30.0 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI															
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample									0.567	=	0.567	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								<=	2.0 30DA AVG	<=	4.0 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0 0002	=	0.0005	03 - MGD									09/99 - See Permit	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									09/99 - See Permit	
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Total Suspended Solid (TSS) level from the barge list influent (28 mg/L) was reduced prior to the barge list effluent discharge (16 mg/L) into the Mississippi River. The TSS reduction is demonstrated in the attached analysis.

Attachments

Name	Type	Size
NetDMR-MONTHLY-Sep2022-BargeListAnalysis.pdf	pdf	351293.0

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2022-10-13 14:44 (Time Zone: -05:00)

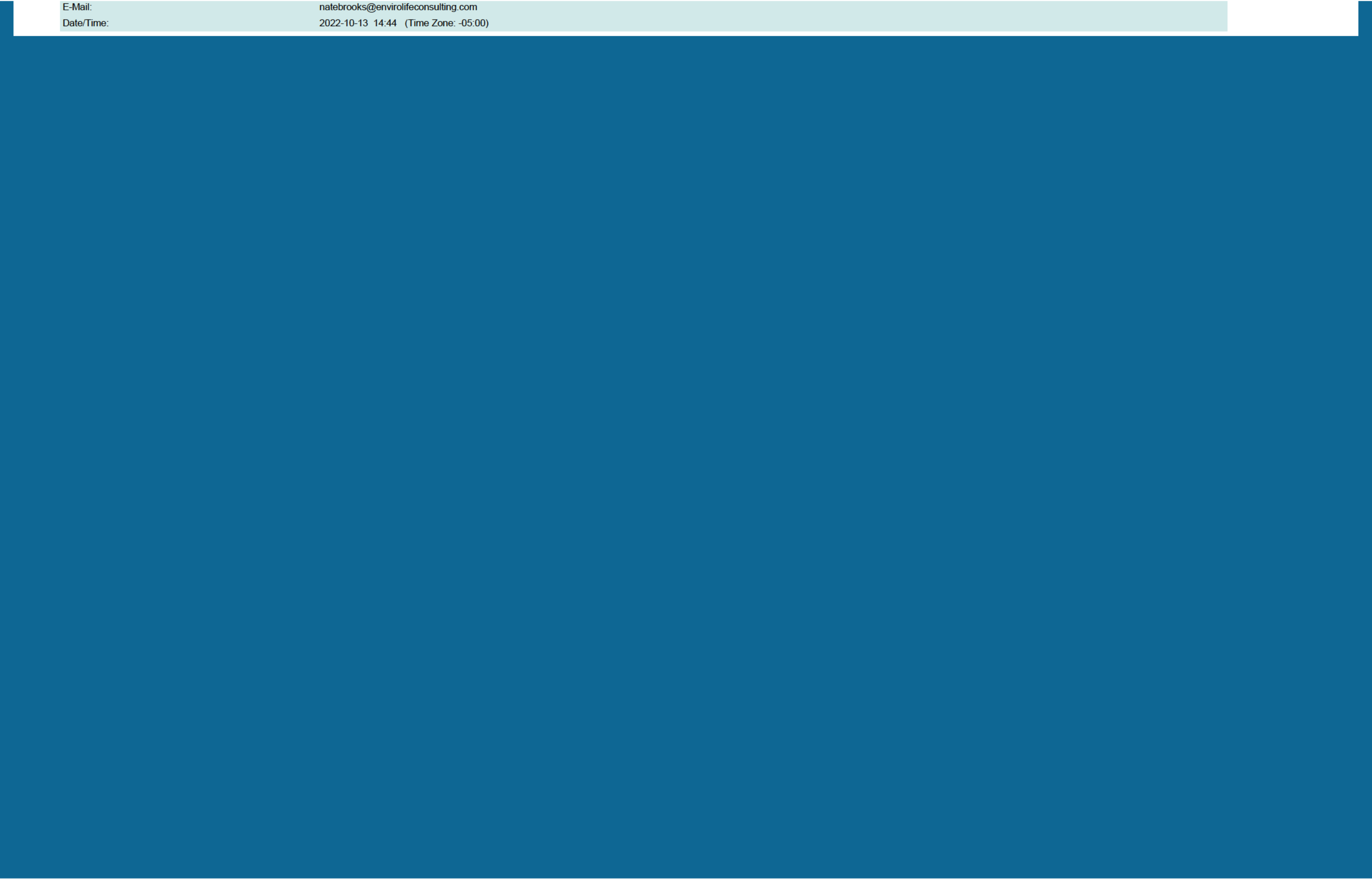
Report Last Signed By

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks



DMR Copy of Record

Permit

Permit #:

IL0068055

Major:

No

Permittee:

NATIONAL MAINTENANCE & REPAIR, INC..

Permittee Address:

P.O. BOX 38
HARTFORD, IL 62048

Facility:

NATIONAL MAINTENANCE & REPAIR, INC.

Facility Location:

201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 10/01/22 to 10/31/22

DMR Due Date:

11/25/22

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:

Travis

Last Name:

Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2022-11-16 11:57 (Time Zone: -06:00)

Report Last Signed By

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2022-11-16 11:57 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

IL0068055

Major:

No

Permittee:

NATIONAL MAINTENANCE & REPAIR, INC..

Permittee Address:

P.O. BOX 38
HARTFORD, IL 62048

Facility:

NATIONAL MAINTENANCE & REPAIR, INC.

Facility Location:

201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 11/01/22 to 11/30/22

DMR Due Date:

12/25/22

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:

Travis

Last Name:

Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2022-12-16 16:00 (Time Zone: -06:00)

Report Last Signed By

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2022-12-16 16:00 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

IL0068055

Major:

No

Permittee:

NATIONAL MAINTENANCE & REPAIR, INC..

Permittee Address:

P.O. BOX 38
HARTFORD, IL 62048

Facility:

NATIONAL MAINTENANCE & REPAIR, INC.

Facility Location:

201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 12/01/22 to 12/31/22

DMR Due Date:

01/25/23

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:

Travis

Last Name:

Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2023-01-24 12:08 (Time Zone: -06:00)

Report Last Signed By

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2023-01-24 12:08 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

IL0068055

Major:

No

Permittee:

NATIONAL MAINTENANCE & REPAIR, INC..

Permittee Address:

P.O. BOX 38
HARTFORD, IL 62048

Facility:

NATIONAL MAINTENANCE & REPAIR, INC.

Facility Location:

201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 01/01/23 to 01/31/23

DMR Due Date:

02/25/23

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:

Travis

Last Name:

Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2023-02-15 14:46 (Time Zone: -06:00)

Report Last Signed By

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2023-02-15 14:46 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:
Major:

IL0068055
No

Permittee:
Permittee Address:

NATIONAL MAINTENANCE & REPAIR, INC..
P.O. BOX 38
HARTFORD, IL 62048

Facility:
Facility Location:

NATIONAL MAINTENANCE & REPAIR, INC..
201 SOUTH HAWTHORNE STREET
HARTFORD, IL 62048

Permitted Feature:

003
External Outfall

Discharge:

003-0
BARGE LIST WATER

Report Dates & Status

Monitoring Period:

From 02/01/23 to 02/28/23

DMR Due Date:

03/25/23

Status:

NetDMR Validated

Considerations for Form Completion

BOW ID: W1190500009

Principal Executive Officer

First Name:
Last Name:

Travis
Flowers

Title:

GFP Manager

Telephone:

618-610-2218

No Data Indicator (NODI)

Form NODI: --

Code	Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
	Name	Qualifier 1					Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units				
00400	pH		1 - Effluent Gross	0	--	Sample						=	8.17			=	8.17	12 - SU	0	01/30 - Monthly	GR - GRAB
						Permit Req.						>=	6.0 MO MIN			<=	9.0 MO MAX	12 - SU		01/30 - Monthly	GR - GRAB
						Value NODI															
X 00530	Solids, total suspended		1 - Effluent Gross	0	--	Sample										=	64.0	19 - mg/L	2	01/30 - Monthly	GR - GRAB
						Permit Req.										<=	15.0 30DA AVG	<= 30.0 DAILY MX		01/30 - Monthly	GR - GRAB
						Value NODI															
00556	Oil & Grease		1 - Effluent Gross	0	--	Sample										=	8.0	19 - mg/L	0	01/30 - Monthly	GR - GRAB
						Permit Req.										<=	15.0 30DA AVG	<= 30.0 DAILY MX		01/30 - Monthly	GR - GRAB
						Value NODI															
X 01045	Iron, total [as Fe]		1 - Effluent Gross	0	--	Sample										=	3.42	19 - mg/L	1	01/30 - Monthly	GR - GRAB
						Permit Req.										<=	2.0 30DA AVG	<= 4.0 DAILY MX		01/30 - Monthly	GR - GRAB
						Value NODI															
50050	Flow, in conduit or thru treatment plant		1 - Effluent Gross	0	--	Sample	=	0 0011	=	0.03	03 - MGD								0	09/99 - See Permit	
						Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									09/99 - See Permit	
						Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01045	Iron, total [as Fe]	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Analysis of Mississippi River influent vs. effluent demonstrates that Total Suspended Solids (TSS) and Iron were both reduced prior to discharge. The TSS influent of 89 mg/L was reduced to 56 mg/L. Iron influent of 3.81 mg/L was reduced 3.42 mg/L to prior to discharge. See attached analysis demonstrating improved water quality.

Attachments

Name	Type	Size
NetDMR-MONTHLY-Feb2023-BargeListAnalysis.pdf	pdf	409797.0

Report Last Saved By

NATIONAL MAINTENANCE & REPAIR, INC..

User:

natebrooks@envirolifeconsulting.com

Name:

Nate Brooks

E-Mail:

natebrooks@envirolifeconsulting.com

Date/Time:

2023-03-16 16:33 (Time Zone: -05:00)

Report Last Signed By



Appendix 6



QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
~~NPDES Permit #0006055~~

Year: 2022
4th Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 10/25/22
Inspection Time: 09:30
Signature: *Nate Brooks*

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

Describe your observations. Briefly summarize what you found when conducting your Quarterly Visual Inspections. Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed stormwater contamination.

Color: ☒ Clear ☐ Red ☐ Yellow ☐ Brown ☐ Other: _____
Odor: ☒ None ☐ Musty ☐ Sewage ☐ Rotten Egg ☐ Other: _____
Clarity: ☒ Clear ☐ Cloudy ☐ Opaque ☐ Suspend Solids ☐ Other: _____
Floatables: ☒ None ☐ Foam ☐ Garbage ☐ Oily Film ☐ Other: _____
Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

This outfall could not be evaluated during this quarter, due to the following reason: _____

An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 001

Inspection Date: 10/25/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 10/25/22
Inspection Time: 09:30
Signature: [Signature]

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

Describe your observations. Briefly summarize what you found when conducting your Quarterly Visual Inspections. Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed stormwater contamination.

Color: ☒ Clear ☐ Red ☐ Yellow ☐ Brown ☐ Other: _____
Odor: ☒ None ☐ Musty ☐ Sewage ☐ Rotten Egg ☐ Other: _____
Clarity: ☒ Clear ☒ Cloudy ☐ Opaque ☐ Suspend Solids ☐ Other: _____
Floatables: ☒ None ☐ Foam ☐ Garbage ☐ Oily Film ☐ Other: _____
Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

This outfall could not be evaluated during this quarter, due to the following reason: _____

An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



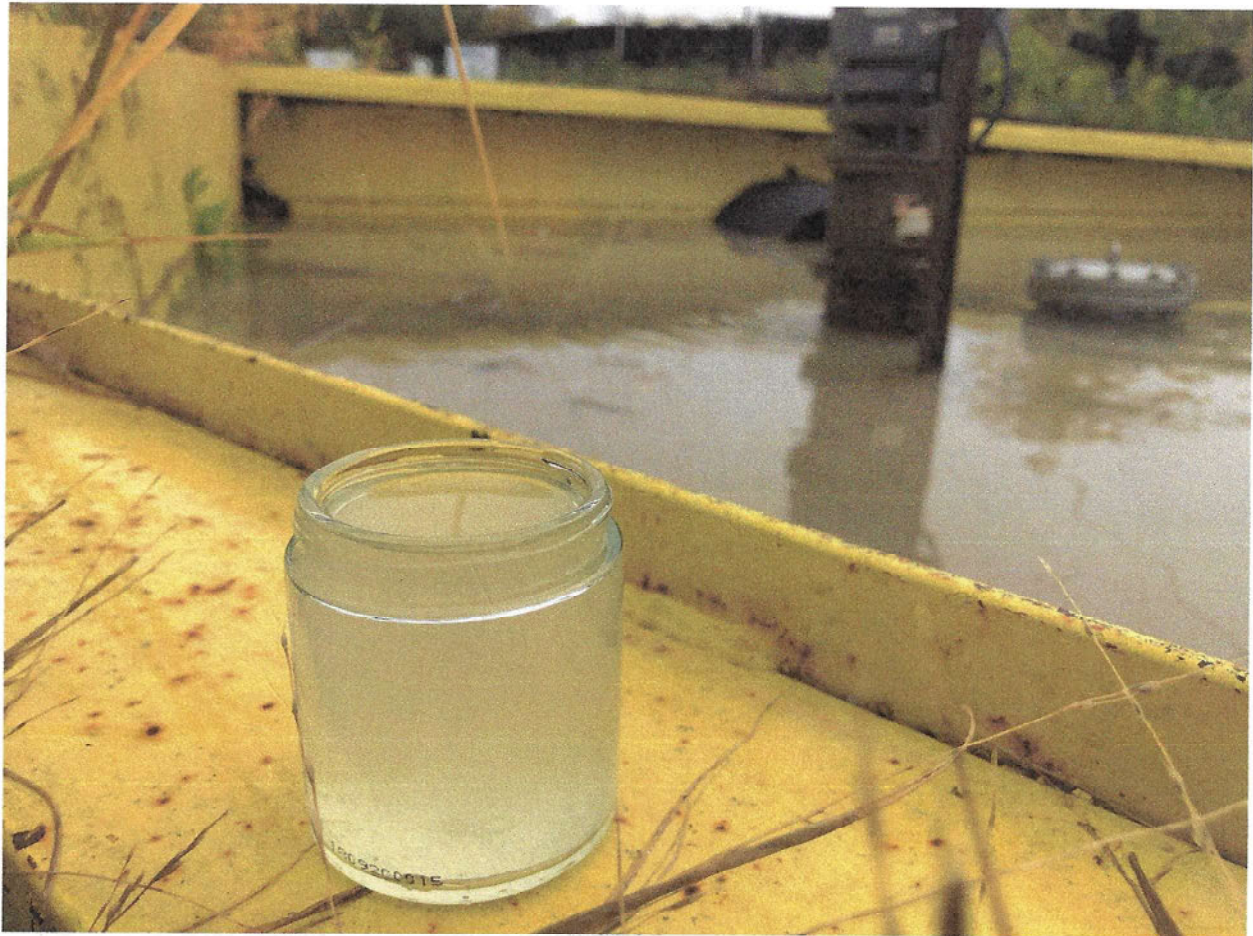
QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 002

Inspection Date: 10/25/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2023
1st Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 03/16/23
Inspection Time: 16:00
Signature: 

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

Describe your observations. Briefly summarize what you found when conducting your Quarterly Visual Inspections. Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed stormwater contamination.

Color: ☒ Clear ☐ Red ☐ Yellow ☐ Brown ☐ Other: _____
Odor: ☒ None ☐ Musty ☐ Sewage ☐ Rotten Egg ☐ Other: _____
Clarity: ☒ Clear ☐ Cloudy ☐ Opaque ☐ Suspend Solids ☐ Other: _____
Floatables: ☒ None ☐ Foam ☐ Garbage ☐ Oily Film ☐ Other: _____
Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

This outfall could not be evaluated during this quarter, due to the following reason: _____

An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



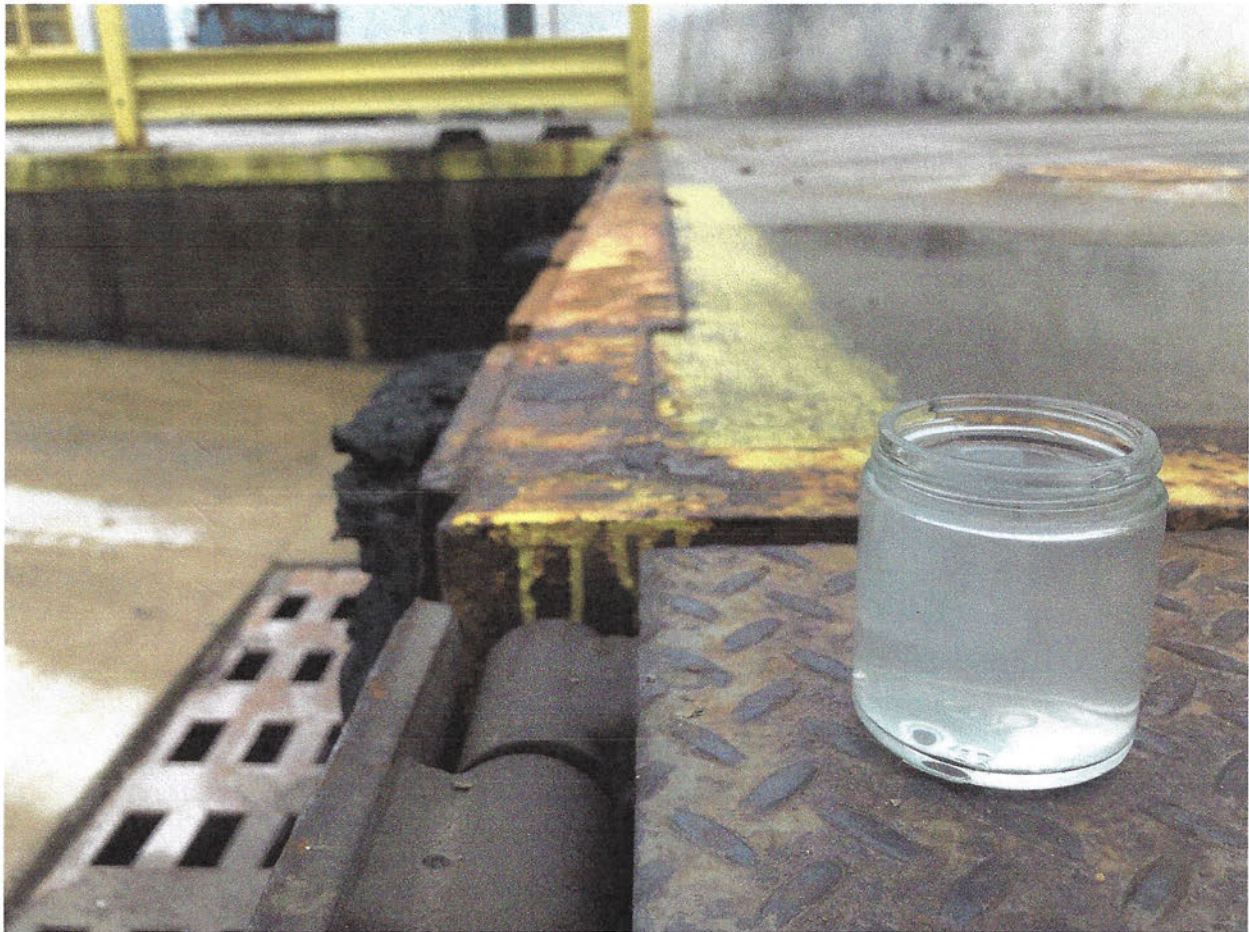
QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: _____
1st Quarter

Outfall: 001

Inspection Date: 03/16/23

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2023
1st Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 03/16/23
Inspection Time: 16:10
Signature: 

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

Describe your observations. Briefly summarize what you found when conducting your Quarterly Visual Inspections. Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed stormwater contamination.

Color: ☒ Clear ☐ Red ☐ Yellow ☐ Brown ☐ Other: _____
Odor: ☒ None ☐ Musty ☐ Sewage ☐ Rotten Egg ☐ Other: _____
Clarity: ☒ Clear ☐ Cloudy ☐ Opaque ☐ Suspend Solids ☐ Other: _____
Floatables: ☒ None ☐ Foam ☐ Garbage ☐ Oily Film ☐ Other: _____
Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

This outfall could not be evaluated during this quarter, due to the following reason: _____

An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: _____
1st Quarter

Outfall: _____ 002 _____

Inspection Date: _____ 03/16/23 _____

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:



Appendix 7



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

217/782-0610

March 10, 2017

National Maintenance & Repair, Inc.
P.O. Box 38
Hartford, Illinois 62048

MAR 14 2017

Re: National Maintenance & Repair, Inc.
NPDES Permit No. IL0068055
Final Permit

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

Pursuant to the Final NPDES Electronic Reporting Rule, all permittees must report DMRs electronically beginning no later than December 21, 2016 unless a waiver has been granted by the Agency. The Agency utilizes NetDMR, a web based application, which allows the submittal of electronic Discharge Monitoring Reports instead of paper Discharge Monitoring Reports (DMRs). More information regarding NetDMR can be found on the Agency website, <http://epa.state.il.us/water/net-dmr/index.html>. If your facility has received a waiver from the NetDMR program, a supply of preprinted paper DMR Forms will be sent to your facility. Additional information and instructions will accompany the preprinted DMRs. Please see the attachment regarding the electronic reporting rule.

The attached Permit is effective as of the date indicated on the first page of the Permit. Until the effective date of any re-issued Permit, the limitations and conditions of the previously-issued Permit remain in full effect. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 35 day period following the issuance date.

Should you have questions concerning the Permit, please contact Mark E. Liska at 217/782-0610.

Sincerely,

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:DEL:MEL:16122001.docx

Attachment: Final Permit

cc: Records
Compliance Assurance Section
Collinsville Region
Billing
SWIMRPC
Missouri DNR Water Pollution Control

NPDES Permit No. IL0068055
Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: February 28, 2022

Issue Date: March 10, 2017
Effective Date: March 10, 2017

Name and Address of Permittee:

National Maintenance & Repair, Inc.
P.O. Box 38
Hartford, Illinois 62048

Facility Name and Address:

National Maintenance & Repair, Inc.
401 South Hawthorne St.
Hartford, Illinois 62048
(Madison County)

Discharge Number and Name:

001 Pumped Stormwater - Southwest Basin
002 Pumped Stormwater - South Basin
003 Barge List Water

Receiving Waters:

Mississippi River
Mississippi River
Mississippi River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.



Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

NPDES Permit No. IL0068055

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
		<u>DAF (DMF)</u>		<u>LIMITS mg/l</u>		
Outfall: 001 Pumped Stormwater - Southwest Basin (Intermittent Discharge)						
Outfall: 002 Pumped Stormwater - South Basin (Intermittent Discharge)						
See Special Condition 8.						
Outfall: 003 Barge List Water (DAF = 0.03 MGD)						
Flow (MGD)	See Special Condition 1				*	
pH	See Special Condition 2				1/Month	Grab
Iron			2	4	1/Month	Grab
Total Suspended Solids			15	30	1/Month	Grab
Oil and Grease			15	30	1/Month	Grab

*Effluent sampling for flow shall be continuous if hardware allows otherwise it shall be a single reading when monitoring each parameter.

NPDES Permit No. IL0068055

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum value on the monthly Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 4. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) electronic forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA beginning December 21, 2016 unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 5. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 6. This permit does not authorize the discharge of wastewater associated with the cleaning barges or vessels including residual product remaining in tanks and/or wash waters.

SPECIAL CONDITION 7. For the purpose of this permit, the discharge from outfalls 001 and 002 is limited to stormwater, free from process and other wastewaters.

SPECIAL CONDITION 8.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act

NPDES Permit No. IL0068055

Special Conditions

For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

- B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph H of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.
 2. A site map showing:
 - i. The storm water conveyance and discharge structures;
 - ii. An outline of the storm water drainage areas for each storm water discharge point;
 - iii. Paved areas and buildings;
 - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
 - vi. Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - ix. Material loading, unloading, and access areas.
 - x. Areas under items iv and ix above may be withheld from the site for security reasons.
 3. A narrative description of the following:
 - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;

NPDES Permit No. IL0068055

Special Conditions

- iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials.
- 4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
 - 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 - 6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
- 1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 - 2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 - 3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 - 4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 - 5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.
 - ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.
 - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.
 - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.

Special Conditions

- vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
- 6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
- 7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- 8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.
- H. Quarterly Visual Observation of Discharges - The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.
 - 1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.
 - 2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
 - 3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
 - 4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
 - 5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
 - 6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

NPDES Permit No. IL0068055

Special Conditions

- J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
- K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
- L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.
- O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.
- S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

NPDES Permit No. IL0068055

Special Conditions

- V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

**Attachment H
Standard Conditions**

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.
- (2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.
- (6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**

- (a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.
- (c) Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - (2) The individual(s) who performed the sampling or measurements;
 - (3) The date(s) analyses were performed;
 - (4) The individual(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses.
- (d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application.** All permit applications shall be signed as follows:

- (1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;
- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

(b) **Reports.** All reports required by permits, or other

person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described in paragraph (a); and
 - (2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and
 - (3) The written authorization is submitted to the Agency.
- (c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
- (d) **Certification.** Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(12) **Reporting requirements.**

(a) **Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

- (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or
- (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).
- (3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

(b) **Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) **Transfers.** This permit is not transferable to any person except after notice to the Agency.

(d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14

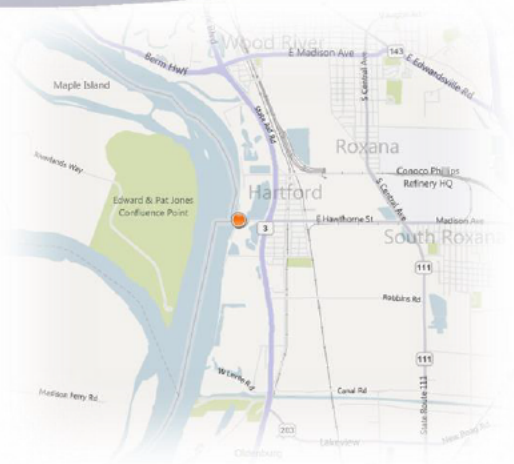
- (e) **Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - (1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
 - (f) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (2) Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.
The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.
 - (g) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).
 - (h) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.
- (13) **Bypass.**
- (a) **Definitions.**
 - (1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
 - (2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - (b) **Bypass not exceeding limitations.** The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).
 - (c) **Notice.**
 - (1) **Anticipated bypass.** If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
 - (2) **Unanticipated bypass.** The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).
 - (d) **Prohibition of bypass.**
 - (1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:
 - (i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (iii) The permittee submitted notices as required under paragraph (13)(c).
 - (2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).
- (14) **Upset.**
- (a) **Definition.** Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - (b) **Effect of an upset.** An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - (c) **Conditions necessary for a demonstration of upset.** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).
 - (4) The permittee complied with any remedial measures required under paragraph (4).
 - (d) **Burden of proof.** In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

- (15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:
- (a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
 - (b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically transferred to a new permittee if:
 - (1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - (2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and
 - (3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- (16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
 - (4) The level established by the Agency in this permit.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
- (a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
- (a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
 - (b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
 - (c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.
- (19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
- (20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
- (22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).
- (23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
- (24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- (26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.
- (28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

Appendix 8

Storm Water Pollution Prevention Plan

**& Environmental
Compliance Policy**



PER 40 CFR 112

Prepared for:
Mark Clark– Safety Director
National Maintenance & Repair, Inc.
401 South Hawthorne Street
Hartford, IL 62048

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618-219-0941 – Mobile

Prepared by:



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I. POLICIES AND PROCEDURES

All personnel covered within the scope of this policy shall be trained initially upon employment and once annually regarding the contents and specific responsibilities regarding implementation of this policy and related applicable environmental laws and regulations. Training in policy compliance will include record keeping, spill reporting, and spill remediation.

Responsibilities:

1. The President and Senior Vice President Operations are responsible for issuing this policy and overseeing its implementation.
2. The Safety Director is designated as the company's "Environmental Officer" and will be responsible for: a) researching appropriate environmental laws and regulations for applicability to the company, b) updating this policy as necessary, c) conducting inspections of company facilities and procedures to determine compliance, d) conducting/managing training, e) preparing procedures and assisting operating managers with procedures to assure compliance.
3. Managers and supervisors are responsible for directly and indirectly supervising to assure that all work and actions taken are in compliance with the policy. This supervision includes taking the actions necessary to prevent the direct or indirect unpermitted discharge of pollutants to waterways. It will include both verbal and written instructions and procedures to leadmen and other personnel as necessary to assure compliance.
4. Leadmen and other employees are responsible for adhering to all procedures, both written and verbal, to assure compliance with this policy to prevent unpermitted discharges to the river. In the absence of specific instructions, they must take the necessary actions to comply with this policy, intended to prevent pollutants from entering waterways.

Notifications:

Any employee who becomes aware of an unpermitted discharge into the waterways, either from a company facility or vessel or in the vicinity of a company facility or vessel by an outside source, known or unknown, shall immediately notify his supervisor/manager and/or the Environmental Officer.

The supervisor/manager or the Environmental Officer will gather appropriate data on the incident and immediately notify the:

National Oil Spill Response Coordinator
800-424-8802



If for any reason immediate contact cannot be made with the National Oil Spill Response Coordinator, the notification should then be made to:

United States Coast Guard
314-539-3824

The following information or estimates are to be provided when making the notification:

1. Location of spill
2. Size of spill
3. Type of spill
4. Weather and river conditions
5. Method of clean up in progress
6. Additional equipment needed
7. Condition of vessel and tow (if involved)

The initial call is not to be delayed awaiting complete or final information, as the response centers need early notice.

Other notifications including those to the "qualified individual" will be in accordance with the Company's Facility Response Plan approved February 16, 1995 and the Company's Vessel Response Plan, Control Number 01274, approved December 30, 1994. The "Qualified Individual" is the Senior Vice-President Operations.

Response:

As soon as the notifications are complete (and only if the spill came from a National facility or vessel), the manager/supervisor or Environmental Officer will take the necessary action(s) and/or those directed by the "Qualified Individual" to prevent a further spill, contain the existing spill, and begin cleanup of the spill from a company facility or vessel. Further response will be in accordance with the above-referenced response plans.

Enforcement:

Violation of this policy shall be cause for disciplinary action up to and including discharge for the first offense and may subject both the employee(s) and the company to criminal prosecution and/or civil penalty.



Procedures:

Each operating department as necessary in conjunction with the Environmental Officer is to establish appropriate written work practices for their area to assure that their operations prevent unpermitted discharges to the river. These written procedures are to be based on the "Best Management Practices for Ship and Boat Building and Repairing Facilities" (60 FR 50993) and, at a minimum, should identify the method(s) of storing material on or near deck barges, crane barges, dry docks, etc.; the methods of operating, cleaning, repairing, etc.; and the same equipment and the proper disposition of the various types of wastes the department would either generate or receive. These procedures and this policy will be the main subject of annual training.

Procedures for work practices common to numerous departments will be coordinated by the Environmental Officer to assure compatibility and compliance with this policy.

All written procedures in a department will be filed in a binder available to any department employee. Copies of all departments' procedures will be maintained by the Environmental Officer.

Any questions about this policy, procedures or compliance with appropriate environmental laws or regulations should be directed to the Environmental Officer.



INTRODUCTION

National Maintenance & Repair, Inc. (NMR or facility) is a shipyard and engine repair facility located in Hartford, Illinois. The company operates four (4) floating dry docks as well as a floating barge cleaning operation referred to as the Gas Free Plant (GFP). The industrial activities at NMR include barge and boat repair, barge construction, barge and boat cleaning, metal fabrication, engine rebuilding/repair and engine component rebuilding.

Provided in Appendix B is a listing, by department, of all significant materials used at the facility that may have the potential to contaminate storm water.

The facility encompasses approximately 18 acres and is composed of the following structures or vessels:

Office barge and associated work barges

Four dry docks

Machine shop

Warehouse

Engine shop

Propeller shop

Component rebuild

Barge cleaning work barge

Approximately 10 acres of the compound, containing the Machine Shop, Warehouse, Engine Shop, Propeller Shop, and Component Rebuild, are surrounded by a levee that directs all storm water into a retention pit/basin before it is pumped into the Mississippi. The pumping action is not automatic but must be initiated by NMR personnel.

The work barges, crane barges, and GFP are provided with containment to prevent oil releases into the river. All mobile cranes have containment pans designed to capture leaking oil or hydraulic fluid.

Methods for onsite storage and disposal of significant material are in Appendix A & B.



II. ENVIRONMENTAL COMPLIANCE POLICY

Purpose:

To establish a program which assures that National Maintenance & Repair, Inc. (NMR), in its commitment to the conservation and preservation of national resources, is in full compliance with not only the wording, but with the spirit and intent of applicable federal, state and/or local environmental laws and regulations.

Scope:

This policy is applicable to all NMR officers, managers, supervisors, non-exempt salaried employees and all hourly employees, both shore-based and crew members. It is also applicable to hired contractors, to whom a copy will be furnished upon request.

Policy:

It is the policy of NMR to comply with all federal, state and local environmental laws and regulations. These laws and regulations generally prohibit the discharge of any pollutant (i.e., oil, contaminated water, sand, trash, garbage, steel, welding rods, etc.) into the waterways or into areas that subsequently could end up in the waterways unless authorized by permit. No unpermitted discharges will be allowed from a NMR facility or vessel. Nothing will be left stored or uncontained in an area or location where it may inadvertently be discharged into the river.



III. STORMWATER MANAGEMENT CONTROLS

A. Personnel

1. The President and Senior Vice President Operations are responsible for issuing this plan and overseeing its implementation.
2. The Safety Manger is designated as the company's Environmental Officer and will be responsible for a) researching environmental laws and regulations which are applicable to this plan; b) updating this plan as necessary; c) conducting inspections of company facilities and procedures to determine compliance; d) conducting/managing training; and e) preparing procedures to assure compliance and assisting operating managers with said procedures.
3. Managers and supervisors are responsible for directly and indirectly supervising employees to ensure that all work and actions taken are in compliance with this policy. This supervision includes taking the actions necessary to prevent the direct or indirect unpermitted discharge of pollutants into the waterways.
4. Leadmen and other employees are responsible for adhering to all procedures to ensure compliance with this plan for preventing unpermitted discharges to the river

B. Preventative Maintenance

The pumps and motors located at the catch basin used to collect water before it is pumped into the river are maintained and operated by Engine Shop personnel.

C. Good Housekeeping

Details on housekeeping for both the plant and individual shops can be found in Appendix A, Storm Water and Regulated Waste Standard Operating Procedures (SOP's).



D. Spill Prevention and Response

1. The two areas where significant materials can enter the river directly are the Gas Free Plant and Hull Branch work barges. In the event of a spill, the Facility response plan, Coast Guard control number 01274 will be implemented. This plan covers in detail the personnel, equipment, and procedures to be used in the event of a significant spill in the river. The area surrounded by the levee is contained and can be cleaned up without any danger of material entering the river. If any contamination in the catch basin water is suspected, the personnel responsible for pumping the water will contact either the Environmental Officer or V.P. Operations before proceeding.
2. Other prevention and response guidelines are covered in Appendix A.



STORM WATER MANAGEMENT PRACTICES

A. Containment

1. The plant-wide accumulation area for any material that may cause storm water contamination is behind the trash compactor located within the confines of the levy.
2. Barrels of waste containing high liquid content will be kept in the barrel and hauled off as a unit.
3. Containers storing liquids such as fuels, paints, solvents and waste oil shall not be placed in an area where rupture of the container would result in the material entering the river. Such containers will be stored east of the levy or furnished with spill containment.
4. Procedures to contain material with potential for contaminating storm water are provided in Appendix A.

B. Debris Control

1. The control of debris that may contaminate the river water is covered in Appendix A.

C. Waste Chemical Disposal

1. Chemicals and contaminants will be disposed of according to Appendix B, Regulated Waste Disposal Chart. Disposal procedures for items not listed on the chart will be determined on an individual basis by the Environmental Officer.

D. Sandblasting and Paint Removal

1. Uncontained blasting or sanding is prohibited over open water.
2. Work areas being blasted will be covered with a tarp to prevent sand and paint chips from entering the river. If possible, the ends of the dry dock will be tarped to contain grit and paint.
3. Blasting will not be done on windy days which may breach containment systems.

E. Painting

1. Painting areas will be covered to the maximum extent practical to prevent over spray from entering the river.
2. Uncontained spraying over open water is prohibited.



3. Paints and solvent will not be mixed on the docks where a spill would result in contamination entering the river.
4. Only trained individuals will be allowed to paint. The people will have expert knowledge on spraying techniques elimination of over spray and the use of spray equipment that delivers more paint to the target and less over spray.

D. Material Storage Areas

1. All stored and containerized materials such as fuels, paints, solvents, oil, and antifreeze will be stored in the designated locations provided east of the levy or provided with spill containment.
2. All material that is considered waste must be disposed of according to Appendix A & B
3. All spills will be cleaned up with sorbent material provided at the warehouse and on the docks. Once the spill is contained the contaminated sorbent material will be disposed of in the regulated waste dumpster at the direction of the Environmental Officer.

E. Engine Repair/Rebuild Areas

1. All liquid runoff from inside the engine shop must be diverted to the liquid waste storage container located outside the cleaning areas. At no time will any liquid runoff be allowed into the storm water runoff.
2. The liquid waste storage container will be disposed of as needed at the Gas Free Plant, which has the necessary permits to handle the waste.
3. The vehicle service area behind the engine shop will be monitored for any signs of oil spill or contamination. If any contamination is found, then the area will be remediated in accordance with state and federal regulatory requirements.

F. Material handling areas

1. See the USCG-approved Facility Operations Manual for waste water handling and treatment procedures.

G. Dry Dock Areas

1. Oily rags, oil dry and used paint cans will be disposed of in special drums located on the dock.
2. Oil filters will be placed in the regulated waste barrels.



3. Grease from boats will be placed in drums along with oily rags and oil dry.
4. Metal drums will be placed on the dry docks to collect welding rods.
5. Prior to flooding, the dry-dock will be swept clean of debris. A salaried supervisor will note the condition of the dry-dock before it goes down.
6. Floatable and low-density waste, such as wood and plastic, will be removed prior to submerging the dock.
7. Prior to submerging the dock, sand blast grit will be removed to the extent reasonably practical using manual methods.
8. Sand blast grit will be kept separate from other wastes.
9. Used sand blast grit will be kept covered to prevent mixing with rain water.
10. All barrels will be taken to a staging area on the dock for transport to the drum storage areas behind the Engine Shop.
11. No free oil, hydraulic fluid, or grease will be left in a position where it may wash into the river. Spills or leaks will have sorbent placed on them and swept up immediately.

H. General Yard Areas

1. The yard is to be cleared of waste regularly to minimize loss of accumulated debris into the river. Details in the classification of debris and how it is to be handled are provided in departmental SOPs and the Regulated Waste Disposal Chart (Appendix A & B).



EMPLOYEE TRAINING

- A. All employees will receive annual environmental training on the company's environmental compliance policy, pollution control, spilt clean up, and company and shop SOP's.
- B. All Hull Department leadmen and group leaders will be trained on more specific aspects of dry dock and plant pollution controls.
- C. All salaried supervisors will receive annual training detailing their responsibilities related to their specific work areas.
- D. Annual training will be held in April of each year.



INSPECTION PROCEDURES

- A. Quarterly environmental inspections will be conducted by either the Environmental Officer or his designated representative. This inspection will be accomplished using a checklist of items that will ensure compliance with the Storm Water Pollution Control Plan. The results of these inspections may be reviewed by the president of National Maintenance & Repair as well as the VP Operations to ensure follow-up and compliance.
- B. Annual plant inspection by the VP Operations and company president.



OTHER PROGRAMS WHICH AFFECT THE SWPPP

Vessel Response Plan

1. This is a detailed plan which plots out the action to be taken in the course of a major oil spill. The plan is resubmitted every 3 years to the Coast Guard for approval.
2. Coast Guard Facility Operations Manual for wastewater handling and treatment
3. National Maintenance & Repair Environmental Compliance Policy.

This policy covers the responsibilities of all employees at National Maintenance & Repair in complying with state and federal environmental regulations and provides instruction on actions to be taken in the event of a threatened release into the river. The policy is disseminated to all employees through the employee handbook and annual training.



APPENDIX A

NATIONAL MAINTENANCE AND REPAIR (NMR) STANDARD OPERATING PROCEDURES (SOPs) FOR STORM WATER POLLUTION PREVENTION, CONTROL AND HANDLING, STORING AND DISPOSING OF REGULATED WASTE



SOPs FOR STORM WATER POLLUTION PREVENTION CONTROL AND REGULATED WASTE

1. The Environmental Officer (EO) is responsible for the disposition and removal of all non-hazardous (solid) and hazardous waste on the plant. All questions or concerns regarding solid or hazardous waste handling and the SOP are to be addressed to the Environmental Officer (EO).
2. The accumulation area for solid waste is the area behind the trash compactor. Barrels of waste should not be dropped off there unless it has been authorized by the EO or his representative.
3. The yard is to be cleared of waste on a regular basis to minimize loss of accumulated debris into the river. Details in the debris classification and handling are provided in the department SOP's and the Regulated Waste Disposal Chart. Direct all questions regarding unlisted wastes to the EO.
4. Each department will be responsible for segregation of wastes (see the applicable SOP).
5. Barrels of waste with high liquid contents will be kept in the barrel and hauled off as a unit.
6. Guidelines for disposal of regulated waste will be closely followed. If an instance arises that is not covered by the guidelines, contact the EO for guidance.
7. Containers storing liquids such as fuels, paint, solvents, and waste oil shall not be placed in an area where rupture of the container may result in a material release into the river. Such containers will be stored east of the levy or provided with secondary containment.
8. Immediate response to all spills is required. Major oil spills will be covered by the Spill Prevention, Control, & Countermeasures (SPCC) Plan. Incidental releases onto the ground are to be handled as follows:
 - A. Stop the source of the spill.
 - B. Contain the liquid.
 - C. Cover the spill with absorbent material.
 - D. Sweep up the absorbent and place it in a non-hazardous waste drum.



SOPs FOR HULL DEPARTMENT
STORM WATER POLLUTION PREVENTION CONTROL AND REGULATED WASTE DISPOSAL

1. Regulated waste will be kept separate from non-regulated waste.
2. Oily rags, oil dry, and used paint cans will be considered regulated waste and disposed of in special drums placed on the dock.
3. Oil filters will be placed in the regulated waste barrels.
4. Grease from boats will be placed in drums along with oily rags and oil dry.
5. Metal drums will be placed at the dry docks for collecting spent welding rods.
6. Prior to flooding, the dry-dock will be swept clean of debris. A salaried supervisor will make a note in the dry dock log detailing the cleanliness of the dock before it is submerged.
7. Floatable and low-density waste such as wood and plastic will be removed prior to submerging the dock.
8. Sand blast grit will be kept separate from scrap metal, welding rods, and other wastes.
9. All grease and oil will be removed from the working surface of work flats and dry docks before any such material has a chance of washing into the river due to rain or other conditions.
10. Hull department supervisors will keep track of all full barrels of waste that are taken off the dock for proper invoicing purposes.
11. All barrels containing non-hazardous waste must be marked as such. Stickers are available for placement on each drum, along with instructions as to proper disposal and appropriate expense invoicing. Hull branch secretaries will be responsible for handing out these stickers.
12. All barrels will be removed to a staging area on the dock for transport to the drum storage areas behind the engine shop.
13. No free oil, hydraulic fluid, or grease will be left in a position where it can wash into the river. Spills or leaks will be covered with absorbent and swept up immediately.



SOPs FOR ENGINE SHOP

STORM WATER POLLUTION PREVENTION CONTROL AND REGULATED WASTE

1. All waste is to be placed in the proper container. Separate containers will be provided for both regulated and non-regulated waste.
2. Oily rags, oil dry and used paint cans will be considered regulated waste and will be disposed in special drums placed in the shop.
3. Oil filters will be placed in special draining cans and drained for 48 hours. The recovered oil will be sent to the gas free plant, and the drained filters will be handled as non-regulated waste.
4. All paper, tape and respirator cartridges will be disposed of in special waste bins.



SOPs FOR MACHINE SHOP

STORM WATER POLLUTION PREVENTION CONTROL AND REGULATED WASTE

1. All waste is to be placed in the proper container. Separate containers will be provided for both regulated waste and non-regulated waste.
2. Oily rags, oil dry, oil pigs and used paint cans will be considered regulated waste and disposed of in special drums placed in shop.

**APPENDIX B****REGULATED WASTE DISPOSAL CHART**

WASTE	HAZARD	DON'T	DO
PAINTS Epoxy Water/Latex Base Oil Base Paint Thinners	MAY BE FLAMMABLE POISONOUS	Sanitary Sewer Storm Drains	Empty cans should be allowed to dry, then crushed and thrown into the special waste barrels. Latex & Water Base: leave cans open, allow to dry and dispose as unregulated garbage Oil Base: Allow solvents to evaporate, and place can into special waste barrels Paint Thinners: Large amounts should be taken to GFP for processing. Small amounts can be mixed with rags and placed in special waste barrels
USED OILS Hydraulic Oil Gear Oil Engine Oil	FLAMMABLE POISONOUS	Used oil should not be used as dust suppressant, burned, placed into dumpster or be allowed to spill into the river, even the smallest quantity	Used oil that is not contaminated with solid waste should be brought to GFP for processing. Small quantities should be placed in a waste oil drum
ANTIFREEZE	POISONOUS	Storm Sewer/Soil	Take to GFP for disposal
BATTERIES	CORROSIVE POISONOUS	Dumpster	Contact Environmental Officer for disposal instructions
PETROLEUM PRODUCTS Gasoline Diesel Fuel Kerosene	FLAMMABLE	Sanitary Sewer Storm Drain	Take product to GFP for disposal



WASTE	HAZARD	DON'T	DO
DEGREASERS Solvents Mineral Spirits Paint Thinners	MAY BE FLAMMABLE	Sanitary Sewer Storm Drain	Sen non-chlorinated solvents to GFP for disposal. Chlorinated solvents must be disposed of as hazardous waste
MACHINE TOOL COOLANT & WATER-SOLUBLE OIL			
OILY RAGS, CLEAN SWEEP, OTHER OIL SOAKED CELLULOSE PRODUCTS	CLASSIFIED AS NON- HAZARDOUS REGULATED WASTE	THROW INTO GARBAGE DUMPSTERS	Dispose in special Non-Hazardous waste barrels
OIL FILTERS			
AEROSOL CANS	EXPLOSION	Puncture	Throw in regular dumpster
SAND BLAST GRIT			Place in special hopper for disposal



HULL DEPARTMENT WASTE STREAM

NON-REGULATED WASTE

- ☐ RAIN SUITS
- ☐ SODA CANS
- ☐ PAPER PRODUCTS
- ☐ WELDING RODS
- ☐ USED TOW ROPE
- ☐ USED LIGHT BULBS
- ☐ OIL FILTERS

REGULATED WASTE

- ☐ OILY RAGS
- ☐ OILY GLOVES
- ☐ OIL DRY
- ☐ EMPTY PAINT CANS
- ☐ GREASE FROM BOATS



ENGINE SHOP WASTE STREAM

NON-REGULATED WASTE

- ☐ PAPER
- ☐ CARDBOARD
- ☐ BRAKE KLEEN CANS
- ☐ SMALL PIECES OF WOOD
- ☐ STYROFOAM CUPS
- ☐ FOOD ITEMS
- ☐ METAL SHAVINGS
- ☐ SODA CANS
- ☐ PRESSURIZED CANS
- ☐ PLASTIC BAGS
- ☐ PLASTIC SHRINK WRAP
- ☐ RUBBER ITEMS
- ☐ DRAINED OIL FILTERS

REGULATED WASTE

- ☐ OILY RAGS
- ☐ OIL DRY
- ☐ USED PAINT CANS
- ☐ USED RESPIRATOR FILTERS
- ☐ PAPER AND TAPE USED FOR SPRAY PAINTING



MACHING SHOP WASTE STREAM

NON-REGULATED WASTE

- ☐ PAPER TOWELS
- ☐ EMPTY HAND CLEANER CONTAINERS
- ☐ MILD STEEL CHIPS
- ☐ NYLON TURNINGS
- ☐ HARD SURFACE TURNINGS
- ☐ NEOPRENE & RUBBER
- ☐ WORN HARD SURFACE TURNINGS
- ☐ COLD ROLLED STEEL
- ☐ USED FLUX
- ☐ KEVLAR GASKET MATERIAL
- ☐ CUTLASS BEARINGS
- ☐ MILD STEEL ALLOY WELDING RODS/WIRE
- ☐ ROLLING BEARINGS
- ☐ SAW BLADES
- ☐ USED CUTTING TOOLS

REGULATED WASTE

- ☐ PAINT CANS
- ☐ OIL & GREASE FROM SPARE PARTS
- ☐ CUTTING OIL
- ☐ WATER SOLUBLE OIL
- ☐ HYDRAULIC OIL
- ☐ SOLVOCOTE
- ☐ OIL DRY
- ☐ OIL PIGS
- ☐ ANTI-SEIZE
- ☐ BLUE LAYOUT FLUID (CHLORINATED)
- ☐ SPOT-CHECK DEVELOPER (CHLORINATED)
- ☐ SPOT-CHECK CLEANER (CHLORINATED)



Description of Outfalls 001 & 002

The Machine Shop, Engine Shop, Warehouse, Propeller Shop, and the Storage Yard is surrounded by an earthen levee approximately 10 ft high, enclosing 370,000 square feet of surface area. This area is graded to the loading dock basin (001) at the northwest corner and to a stormwater collection basin to the south (002). Sump pumps remove stormwater runoff from these 2 collection points via piping. Stormwater is discharged onto the ground where it runs off to the Mississippi River. The only paved area of the facility is located at loading dock basin, all roads are unimproved. Buildings and outdoor storage areas are identified on the map below.





Gas Free Plant (GFP)

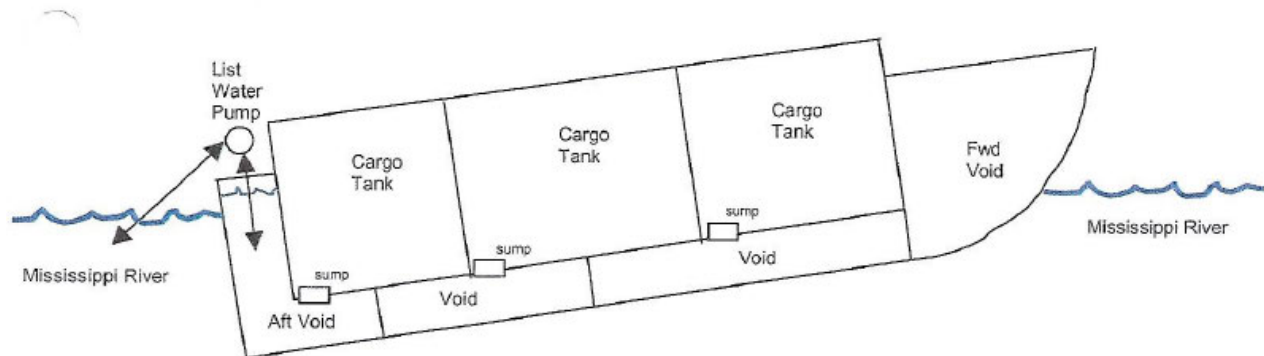
The National Gas Free plant is primarily a water-based facility. The shore side of the facility consists of a parking lot and a single concrete containment for transfers operations. Waste roll offs, vacuum boxes, portable storage containers, and tanks are occasionally deployed on the shore at this site.





Description of Outfall 003

During the barge cleaning process, river water is pumped into the forward (or aft) void compartments of the barge to provide a gradient (or list) to the vessel. This list water allows barge washwater to flow efficiently to the vessel's sumps for removal from the barge. After the washing operation is complete, the list water is pumped from the void compartment back into the Mississippi River. At no time does barge washwater and list water mix. The drawing below illustrates the above description.



Appendix 9

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2020-65303
Bureau ID: W1190500009

PERMIT NO.: 2020-EP-65303

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS

DATE ISSUED: July 1, 2020

PREPARED BY: National Maintenance & Repair, Inc.

SUBJECT: NATIONAL MAINTENANCE & REPAIR, INC.--Pretreatment System for Barge Cleaning Wastewater--
Discharge Tributary to the Wood River Wastewater Treatment Plant

PERMITTEE TO OWN AND OPERATE

National Maintenance & Repair, Inc.
Foot of Hawthorne Street
Hartford, Illinois 62048

Permit is hereby granted to the above designated permittee(s) to operate water pollution control facilities described as follows:

A pretreatment system consisting of a series of six settling/oil separation barge compartments (total capacity of 403,200 gallons), a 5,000 gallon surge tank with belt skimmer, a three compartment chemical reaction unit, a 6 ft. diameter by 7.5 ft. deep recycle pressurization dissolved air flotation unit, a 300 gallon sludge conditioning tank, a 500 gallon sludge holding tank, a 10 cubic ft. plate type filter press, a 60 gallon pH adjust tank, a 10 micron bag filter, a 1,000 pound activated carbon filter (to be used as needed), and all appropriate pipes, pumps, fittings and appurtenances necessary for the treatment of approximately 30,000 gpd DAF (43,000 gpd DMF) (11,017 BOD₅ P.E.) of barge cleaning wastewater. Discharge is tributary to a 10-inch diameter sanitary gravity sewer located along 7th Street in Hartford which ultimately discharges to the City of Wood River Wastewater Treatment Plant.

This operating permit expires on May 31, 2025.

This operating permit renews and replaces permit number 2014-EP-58860 which was previously issued for the herein permitted facilities.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1:

- a. Accumulation of hazardous waste at this facility (if generated) shall be carried out in accordance with 35 Ill. Adm. Code, Chapter 1, Subtitle G, Part 722: Standards Applicable to Generators of Hazardous Waste.
- b. Transport of all special waste to a permitted treatment, storage or disposal site shall be carried out in accordance with Title 35 Ill. Adm. Code, Chapter 1, Subtitle G, Part 809: Special Waste Hauling.

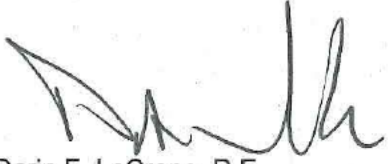
Page 1 of 4

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

DEL:FJH:2020-65303.docx

DIVISION OF WATER POLLUTION CONTROL

cc: EPA-Collinsville FOS
National Maintenance & Repair, Inc.
City of Wood River WWTP
Village of Hartford
USEPA - Region 5
Records - Industrial


Darin E. LeCrone, P.E.
Manager, Industrial Unit, Permit Section

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT**

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SUBJECT: NATIONAL MAINTENANCE & REPAIR, INC.--Pretreatment System for Barge Cleaning Wastewater--
Discharge Tributary to the Wood River Wastewater Treatment Plant

SPECIAL CONDITION 2: Issuance of this permit does not release the Permittees from any liability for prior violations of the Act or Rules and Regulations promulgated thereunder.

SPECIAL CONDITION 3: The operation of the pretreatment facilities must be under the direct and active field supervision of a certified industrial treatment plant operator in accordance with the State of Illinois Rules and Regulations, Title 35, Subtitle C, Chapter 1, Part 312.

SPECIAL CONDITION 4: The issuance of this permit does not relieve the permittee of the responsibility of complying with any limitations and provisions imposed by the Village of Hartford and/or the City of Wood River.

SPECIAL CONDITION 5: Lower Explosive Limit (LEL) monitors shall be placed in the head space above the Dissolved Air Flotation unit and in the manhole closest to the point where treated effluent enters the sanitary sewer. The pretreatment system controls shall be configured such that the pretreatment system shall shut down in the event that the LEL monitors detect vapors which reach 10% of the Lower Explosive Limit.

SPECIAL CONDITION 6: This permit is being issued with the understanding that the Village of Hartford has a Confined Space Entry program which conforms to the provisions of the State of Illinois Health and Safety Act (820 ILCS 225/0.1).

SPECIAL CONDITION 7: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 301, 306, or 307 of the Federal Clean Water Act of 1977. The guidelines established for Transportation Cleaning Point Source Category (40 CFR Part 442 Subpart C - Tank Barges and Ocean/Sea Tankers Transporting Chemical and Petroleum Cargos and Subpart D - Tanks Transporting Food Grade Cargos) limit the pollutants from facility as follows:

<u>Pollutant:</u>	1-Day Maximum (mg/L)
Non Polar Material (SGT-HEM)	26
Cadmium	0.02
Chromium	0.42
Copper	0.10
Lead	0.14
Mercury	0.0013
Nickel	0.58
Zinc	8.3

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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PREPARED BY: National Maintenance & Repair, Inc.

SUBJECT: NATIONAL MAINTENANCE & REPAIR, INC.--Pretreatment System for Barge Cleaning Wastewater--
Discharge Tributary to the Wood River Wastewater Treatment Plant

SPECIAL CONDITION 8: MONITORING REQUIREMENTS

A. The Permittee shall monitor the discharge from the pretreatment system prior to discharge to the sanitary sewer according to the following schedule.

<u>Parameter:</u>	<u>Sample Frequency:</u>	<u>Sample Type:</u>
Flow	Measure When Monitoring	
pH	1/Month	Grab
BOD ₅	1/Month	8-Hour Composite
COD	1/Month	8-Hour Composite
Cadmium	1/Month	Grab
Chromium	1/Month	Grab
Copper	1/Month	Grab
Non Polar Material (SGT-HEM)	2/Month	Grab
Mercury	1/Month	Grab
Oil and Grease (HEM)	1/Month	Grab
Zinc	1/Month	Grab
Total Suspended Solids	1/Month	Grab
1-Methylphenanthrene	1/Month	Grab
Bis (2-ethylhexyl) phthalate	1/Month	Grab

B. All sampling and testing shall be in accordance with 40 CFR 136 or other Agency approved methods.

C. The permittee shall maintain a list of cargos of all the tankers that are internally cleaned at the facility, and the date on which the cleaning took place. Material Safety Data Sheets for the cargos of all the tankers that are internally cleaned shall be retained on site, and made available to the Agency upon request.

D. The permittee shall tabulate the results of the monthly monitoring and send the data to the following addresses by the 15th of the month following the sampling. In addition to the monitoring requirements listed above the permittee shall indicate the number of barges cleaned during the reporting month, a listing of the commodities contained in the barges, the number of days of discharge of treated wastewater to both the NPDES outfall and to the sanitary sewer, and an estimate of the daily average flow of wastewater from the pretreatment system.

Illinois EPA-Division of Water Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWPC, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

United States Environmental Protection Agency Region 5
Water Enforcement and Compliance Branch
Attn: Newton Ellens
WUC-15J
77 West Jackson Blvd.
Chicago, Illinois 60604

City of Wood River
501 West Ferguson Avenue
Wood River, Illinois 62095

Village of Hartford
140 West Hawthorne
Hartford, Illinois 62048

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

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SUBJECT: NATIONAL MAINTENANCE & REPAIR, INC.--Pretreatment System for Barge Cleaning Wastewater--
Discharge Tributary to the Wood River Wastewater Treatment Plant

E. ADDITIONAL MONITORING REQUIREMENTS

The permittee shall sample the discharge once per year for priority pollutants listed in 40 CFR 122 Appendix D, Table II under Acid Compounds and Case/Neutral headings. Samples shall be collected from a discharge which contains wastewater from the cleaning of a tanker containing a fatty acids product; or from a tanker containing glues; or from a tanker containing lube oils and additives.

The permittee shall sample the discharge once per year for priority pollutants listed in 40 CFR 122 Appendix D, Table II under Volatiles heading. Samples shall be collected from a discharge which contains wastewater from the cleaning of a tanker containing a toluene and xylenes products; or from a tanker containing isopropyl alcohol; or from a tanker containing latexes and adhesives.

Tests shall be done as described in Part B, with type of wastewater cleaned specified. Results shall be submitted to addresses in Part D along with February report.

Appendix 10

March 19, 2020

Mark Clark Sr
National Maintenance and Repair
P.O. Box 38 Foot of Hawthorne Street
Hartford, IL 62048
TEL: (618) 219-0941
FAX: (618) 255-5770



RE: Raw Waste Water

WorkOrder: 20030812

Dear Mark Clark Sr:

TEKLAB, INC received 2 samples on 3/12/2020 11:35:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Accreditations	5
Laboratory Results	6
Receiving Check List	8
Chain of Custody	Appended

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
- DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCS D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

Cooler Receipt Temp: 8.0 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: National Maintenance and Repair**Work Order:** 20030812**Client Project:** Raw Waste Water**Report Date:** 19-Mar-2020

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	4/10/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2020	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		3/3/2020	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

Lab ID: 20030812-001

Client Sample ID: Raw Waste Water

Matrix: WASTE WATER

Collection Date: 03/12/2020 8:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		23	mg/L	1	03/18/2020 10:03	R274329
EPA 1664A, (TOTAL) PETROLEUM HYDROCARBONS								
Hexane Extractable Material (SGT)	NELAP	6		12	mg/L	1	03/19/2020 15:10	R274329
STANDARD METHOD 4500-H B 2000, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		5.84		1	03/12/2020 14:42	R274072
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	60		110	mg/L	10	03/18/2020 11:40	R274341
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/13/2020 9:35	163108
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/17/2020 11:14	163112
Chromium	NELAP	0.0050		0.0105	mg/L	1	03/14/2020 0:04	163112
Copper	NELAP	0.0050		0.0240	mg/L	1	03/14/2020 0:04	163112
Lead	NELAP	0.0150		0.0271	mg/L	1	03/14/2020 0:04	163112
Nickel	NELAP	0.0050		0.105	mg/L	1	03/14/2020 0:04	163112
Zinc	NELAP	0.0100		0.932	mg/L	1	03/14/2020 0:04	163112
EPA 600 625.1 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1-Methylphenanthrene	*	0.060		ND	mg/L	10	03/17/2020 3:35	163205
Bis(2-ethylhexyl)phthalate	*	0.075		ND	mg/L	10	03/17/2020 3:35	163205
Surr: 2-Fluorobiphenyl	*	36.3-102		66.0	%REC	10	03/17/2020 3:35	163205
Surr: Nitrobenzene-d5	*	15-314		73.8	%REC	10	03/17/2020 3:35	163205
Surr: p-Terphenyl-d14	*	10-112		47.4	%REC	10	03/17/2020 3:35	163205

Elevated reporting limit due to sample extract composition.



Laboratory Results

<http://www.teklabinc.com/>

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

Lab ID: 20030812-002

Client Sample ID: Raw Waste Water

Matrix: WASTE WATER

Collection Date: 03/12/2020 8:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	500		11200	mg/L	10	03/13/2020 14:59	R274112
STANDARD METHODS 5210 B 2001								
Biochemical Oxygen Demand	NELAP	125		6350	mg/L	25	03/13/2020 15:22	163159



Receiving Check List

<http://www.teklabinc.com/>

Client: National Maintenance and Repair

Work Order: 20030812

Client Project: Raw Waste Water

Report Date: 19-Mar-2020

Carrier: Jacob Wilson

Received By: AMD

Completed by:

Reviewed by:

On:

On:

12-Mar-2020

12-Mar-2020

Amanda R. Ham

Elizabeth A. Hurley

Pages to follow:

Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C **8.0**

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☐

No ☒

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☐

No ☒

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Sample analyses to be measured in the field and/or within 15 minutes of collection were analyzed in the lab as soon as practicable. These analyses include Chlorine (demand, free and/or residual), Carbon Dioxide, Dissolved Oxygen, Ferrous Iron, pH, and Sulfite.

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Additional nitric acid (71912) was needed upon arrival at the laboratory. - KMT/aham - 3/12/2020 12:52:34 PM

Samples are labeled as Monthly Grab and Monthly Comp. - KMT/aham - 3/12/2020 12:53 PM

pg. 1 of 23 Work order #2003082

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: NATIONAL MAINTENANCE & REPAIR
Address: 916 W 7TH ST
City / State / Zip: HARTFORD IL 62648
Contact: MARK CLARK JR Phone: 618 219-0941
E-Mail: mclark@nma-inc.com Fax: _____

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 8.0 °C UGAs
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
Lab Notes: added HNO3 to monthly grab VL 3/10/20
samples labeled monthly comp t
Client Comments: monthly grab VL 3/10/20

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[illegible]

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

WHITE - LAB YELLOW - SAMPLER

understands the terms and conditions of this

Appendix 11

March 30, 2020

Mark Clark Sr
National Maintenance and Repair
P.O. Box 38 Foot of Hawthorne Street
Hartford, IL 62048
TEL: (618) 219-0941
FAX: (618) 255-5770



RE: March Waste Water

WorkOrder: 20031247

Dear Mark Clark Sr:

TEKLAB, INC received 2 samples on 3/19/2020 10:05:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: National Maintenance and Repair

Work Order: 20031247

Client Project: March Waste Water

Report Date: 30-Mar-2020

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Accreditations	5
Laboratory Results	6
Receiving Check List	8
Chain of Custody	Appended

Client: National Maintenance and Repair**Work Order:** 20031247**Client Project:** March Waste Water**Report Date:** 30-Mar-2020**Abbr Definition**

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCS-D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Qualifiers

- Unknown hydrocarbon

C - RL shown is a Client Requested Quantitation Limit

H - Holding times exceeded

J - Analyte detected below quantitation limits

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside recovery limits

X - Value exceeds Maximum Contaminant Level

B - Analyte detected in associated Method Blank

E - Value above quantitation range

I - Associated internal standard was outside method criteria

M - Manual Integration used to determine area response

R - RPD outside accepted recovery limits

T - TIC(Tentatively identified compound)

Client: National Maintenance and Repair

Work Order: 20031247

Client Project: March Waste Water

Report Date: 30-Mar-2020

Cooler Receipt Temp: 11.4 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: National Maintenance and Repair**Work Order:** 20031247**Client Project:** March Waste Water**Report Date:** 30-Mar-2020

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2021	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2020	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		3/3/2020	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Client: National Maintenance and Repair

Work Order: 20031247

Client Project: March Waste Water

Report Date: 30-Mar-2020

Lab ID: 20031247-001

Client Sample ID: March Waste Water

Matrix: WASTE WATER

Collection Date: 03/19/2020 8:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		8	mg/L	1	03/24/2020 16:02	R274541
EPA 1664A, (TOTAL) PETROLEUM HYDROCARBONS								
Hexane Extractable Material (SGT)	NELAP	6		< 6	mg/L	1	03/25/2020 14:50	R274541
STANDARD METHOD 4500-H B 2000, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		5.78		1	03/19/2020 15:43	R274379
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		16	mg/L	1	03/24/2020 11:33	R274498
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/20/2020 10:08	163357
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/20/2020 16:44	163349
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/20/2020 16:44	163349
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/20/2020 16:44	163349
Lead	NELAP	0.0150		< 0.0150	mg/L	1	03/20/2020 16:44	163349
Nickel	NELAP	0.0050		0.0945	mg/L	1	03/20/2020 16:44	163349
Zinc	NELAP	0.0100		0.241	mg/L	1	03/20/2020 16:44	163349
EPA 600 625.1 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1-Methylphenanthrene	*	0.012		ND	mg/L	2	03/25/2020 7:30	163387
Bis(2-ethylhexyl)phthalate	NELAP	0.015		ND	mg/L	2	03/25/2020 7:30	163387
Surr: 2-Fluorobiphenyl	*	36.3-102		46.3	%REC	2	03/25/2020 7:30	163387
Surr: Nitrobenzene-d5	*	15-314		75.7	%REC	2	03/25/2020 7:30	163387
Surr: p-Terphenyl-d14	*	10-112		42.5	%REC	2	03/25/2020 7:30	163387

Elevated reporting limit due to sample extract composition.



Laboratory Results

<http://www.teklabinc.com/>

Client: National Maintenance and Repair

Work Order: 20031247

Client Project: March Waste Water

Report Date: 30-Mar-2020

Lab ID: 20031247-002

Client Sample ID: March Composite

Matrix: WASTE WATER

Collection Date: 03/19/2020 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	500		11000	mg/L	10	03/20/2020 14:43	R274416
STANDARD METHODS 5210 B 2001								
Biochemical Oxygen Demand	NELAP	125		7480	mg/L	25	03/19/2020 18:18	163363



Receiving Check List

<http://www.teklabinc.com/>

Client: National Maintenance and Repair

Work Order: 20031247

Client Project: March Waste Water

Report Date: 30-Mar-2020

Carrier: Jacob Wilson

Received By: AMD

Completed by:

Reviewed by:

On:

On:

19-Mar-2020

19-Mar-2020

Amber M. Dilallo

Marvin L. Darling

Pages to follow:

Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 11.4

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☐

No ☒

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Sample analyses to be measured in the field and/or within 15 minutes of collection were analyzed in the lab as soon as practicable. These analyses include Chlorine (demand, free and/or residual), Carbon Dioxide, Dissolved Oxygen, Ferrous Iron, pH, and Sulfite.

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Additional Nitric Acid (72122) was needed upon arrival at the laboratory for March Waste Water. - ktaylor - 3/19/2020 10:31:40 AM

pg. 1 of 1 Work order # 20031247

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

[illegible]

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

WHITE - LAB YELLOW - SAMPLER

Appendix 12



March 23, 2023

Collinsville Regional Manager
Illinois EPA-Division of Water Pollution Control
1101 Eastport Plaza Dr., Ste. 100
Collinsville, Illinois 62234

Illinois Environmental Protection Agency
DWP, Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Chessie Brame
Village of Hartford
140 W. Hawthorne St.
Hartford, Illinois 62048-1012

Water Department
City of Wood River
100 Anderson Avenue
Wood River, Illinois 62095

Enclosed are the analytical results for **priority pollutants** listed in 40 CFR 122 Appendix D, Table II, as required annually for Water Pollution Control Permit No. 2020-EP-65303 for the year of **2022**.

Prepared for:



Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470

Please contact me at (618) 372-3740 if you have any questions or concerns.

Sincerely,

Nathaniel Brooks
EnviroLife Consulting LLC



Water Pollution Control Permit
Permit No. 2014-EP-58860
National Maintenance & Repair, Inc.

Chemical Analysis for:

2022

Year

Sample Analysis:

Sample Collected: 02/15/23

Date

1,1,1-Trichloroethane	ND<0.0020	mg/L
1,1,2,2-Tetrachloroethane	ND<0.0020	mg/L
1,1,2-Trichloroethane	ND<0.0005	mg/L
1,1-Dichloroethane	ND<0.0020	mg/L
1,1-Dichloroethene	ND<0.0020	mg/L
1,2-Dichloroethane	ND<0.0020	mg/L
1,2-Dichloropropane	ND<0.0020	mg/L
1,3-Dichloropropene, Total	ND<0.0020	mg/L
2-Chloroethyl vinyl ether	ND<0.0050	mg/L
Acrolein	ND<0.0200	mg/L
Acrylonitrile	ND<0.0050	mg/L
Benzene	ND<0.0005	mg/L
Bromodichloromethane	ND<0.0020	mg/L
Bromoform	ND<0.0020	mg/L
Bromomethane	ND<0.0050	mg/L
Carbon tetrachloride	ND<0.0020	mg/L
Chlorobenzene	ND<0.0020	mg/L
Chloroethane	ND<0.0020	mg/L
Chloroform	ND<0.0020	mg/L
Chloromethane	ND<0.0050	mg/L
cis-1,3-Dichloropropene	-----	mg/L
Dibromochloromethane	ND<0.0020	mg/L
Ethylbenzene	ND<0.0020	mg/L
Methylene chloride	ND<0.0020	mg/L
Tetrachloroethene	ND<0.0005	mg/L
Toluene	ND<0.0020	mg/L
trans-1,2-Dichloroethene	ND<0.0020	mg/L
Trichloroethene	ND<0.0020	mg/L
Vinyl Chloride	ND<0.0020	mg/L

Appendix 13



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Individual Permit for Storm Water Discharges Associated with Industrial Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report. Place a NA in sections that do not apply to your operation.

Report Period: From: January 2022 To: December 2022
(Month) (Year) (Month) (Year)

NPDES Permit No. IL00 68055

OWNER/OPERATOR INFORMATION: (As it appears on the current permit)

Name: National Maintenance & Repair, Inc.

Mailing Address: P.O. Box 38

City: Hartford State: IL Zip: 62048 Telephone: 618-254-7451

Contact Person: Nate Brooks - EnviroLife Consulting (618-616-1724) (Person responsible for Annual Report)

FACILITY/SITE INFORMATION: (As it appears on the current permit)

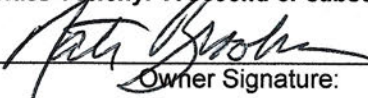
Facility Name: National Maintenance & Repair, Inc.

Facility Location: Foot of Hawthorne St. (River Road)

City: Hartford IL Zip: 62048 County: Madison

Attach information concerning quarterly visual observations of discharges as found in Item H of your Permit. Include a summary of all periodic inspections required by the NPDES Permit.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))


Owner Signature:
Nate Brooks - EnviroLife Consulting
Printed Name:

02/20/23
Date:
Consultant - Owner/Operator
Title:

EMAIL COMPLETED FORM TO: EPA.NPDES.Inspection@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276



ANNUAL COMPLIANCE INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

The Annual Compliance Inspection shall be adequate to verify that your Storm Water Pollution Prevention Plan (SWPPP) remains current; potential pollution sources at your facility are identified; the facility site map and drainage map remain accurate; and that the Best Management Practices (BMPs) prescribed in your SWPPP are being implemented, properly operated, and adequately maintained. Your inspection should start with a review of your written SWPPP kept at your facility. The SWPPP should be amended if, through these inspections, you find that the provisions in your SWPPP are ineffective in controlling contaminated storm water from being discharged from your facility.

Inspection Date: 03/24/22 Inspector: Nate Brooks – EnviroLife Consulting

Outfall(s): 001 & 002 Signature: *Nate Brooks*

1.	Has your SWPPP been updated to include current Non-Storm Water Discharge Evaluation results?	☐ Yes	☒ No	☐ NA
2.	Has your SWPPP been amended for any new construction that would affect the site map or drainage conditions at the facility?	☐ Yes	☒ No	☐ NA
3.	Has your SWPPP been amended for any changes in facility operations that could be identified as new source areas for contamination of storm water?	☐ Yes	☒ No	☐ NA
4.	Are there any materials at the facility that are handled, stored, or disposed in a manner to allow exposure to storm water that are not currently addressed in your SWPPP?	☐ Yes	☒ No	☐ NA
5.	Are there any maintenance or material handling activities conducted outdoors that have not been addressed in your SWPPP?	☐ Yes	☒ No	☐ NA
6.	Are outside areas kept in a neat and orderly condition?	☒ Yes	☐ No	☐ NA
7.	Are regular housekeeping inspections made?	☒ Yes	☐ No	☐ NA
8.	Do you see spots, pools, puddles, or other traces of oils, grease, or other chemicals on the ground?	☐ Yes	☒ No	☐ NA
9.	Are particulates on the ground from industrial operations or processes being controlled?	☒ Yes	☐ No	☐ NA
10.	Do you see leaking equipment, pipes or containers?	☐ Yes	☒ No	☐ NA
11.	Do drips, spills, or leaks occur when materials are being transferred from one source to another?	☐ Yes	☒ No	☐ NA
12.	Are drips or leaks from equipment or machinery being controlled?	☒ Yes	☐ No	☐ NA
13.	Are cleanup procedures used for spilled solids?	☒ Yes	☐ No	☐ NA
14.	Are absorbent materials (floor dry, kitty litter, etc.) regularly used in certain areas to absorb spills	☒ Yes	☐ No	☐ NA
15.	Can you find discoloration, residue, or corrosion on the roof or around vents or pipes that ventilate or drain work areas?	☐ Yes	☒ No	☐ NA
16.	Are Best Management Practices implemented to reduce or eliminate contamination of storm water from source areas at the facility?	☒ Yes	☐ No	☐ NA
17.	Are Best Management Practices adequately maintained?	☒ Yes	☐ No	☐ NA
18.	Are there significant changes to your SWPPP needed to correct plan inadequacies to effectively control a discharge of contaminated storm water from your facility?	☐ Yes	☒ No	☐ NA

Prepared for:

Prepared by:

National
MAINTENANCE & REPAIR, INC.
Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 03/24/22
Inspection Time: 17:00
Signature: *Nate Brooks*

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probably source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

Describe your observations. Briefly summarize what you found when conducting your Quarterly Visual Inspections. Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed stormwater contamination.

Color: ☒ Clear ☐ Red ☐ Yellow ☐ Brown ☐ Other: _____
Odor: ☒ None ☐ Musty ☐ Sewage ☐ Rotten Egg ☐ Other: _____
Clarity: ☒ Clear ☒ Cloudy ☐ Opaque ☐ Suspend Solids ☐ Other: _____
Floatables: ☒ None ☐ Foam ☐ Garbage ☐ Oily Film ☐ Other: _____
Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

This outfall could not be evaluated during this quarter, due to the following reason: _____

An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
(618) 372-3470



QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 001

Inspection Date: 03/24/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 03/24/22
Inspection Time: 17:00
Signature: 

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Deposits:	☒ None	☐ Oily	☐ Sludge	☐ Sediments	☐ Other: _____

Comments: _____

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National
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Foot of Hawthorne St.
Hartford, IL 62048
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QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 002

Inspection Date: 03/24/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
2nd Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 05/05/22
Inspection Time: 10:15
Signature: Nate Brooks

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

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Comments: _____

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Prepared for:

National
MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
Brighton, IL 62012
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QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 001

Inspection Date: 05/05/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
2nd Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 05/05/22
Inspection Time: 10:15
Signature: *Nate Brooks*

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Deposits: ☒ None ☐ Oily ☐ Sludge ☐ Sediments ☐ Other: _____

Comments: _____

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An easy way to conduct this inspection is to use a glass jar to collect a sample of the stormwater being discharges from the facility and visually inspect the water. *Refer to the attached photo of the above described stormwater collected in a glass jar.*

Prepared for:

National
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Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



16532 Conrad Rd.
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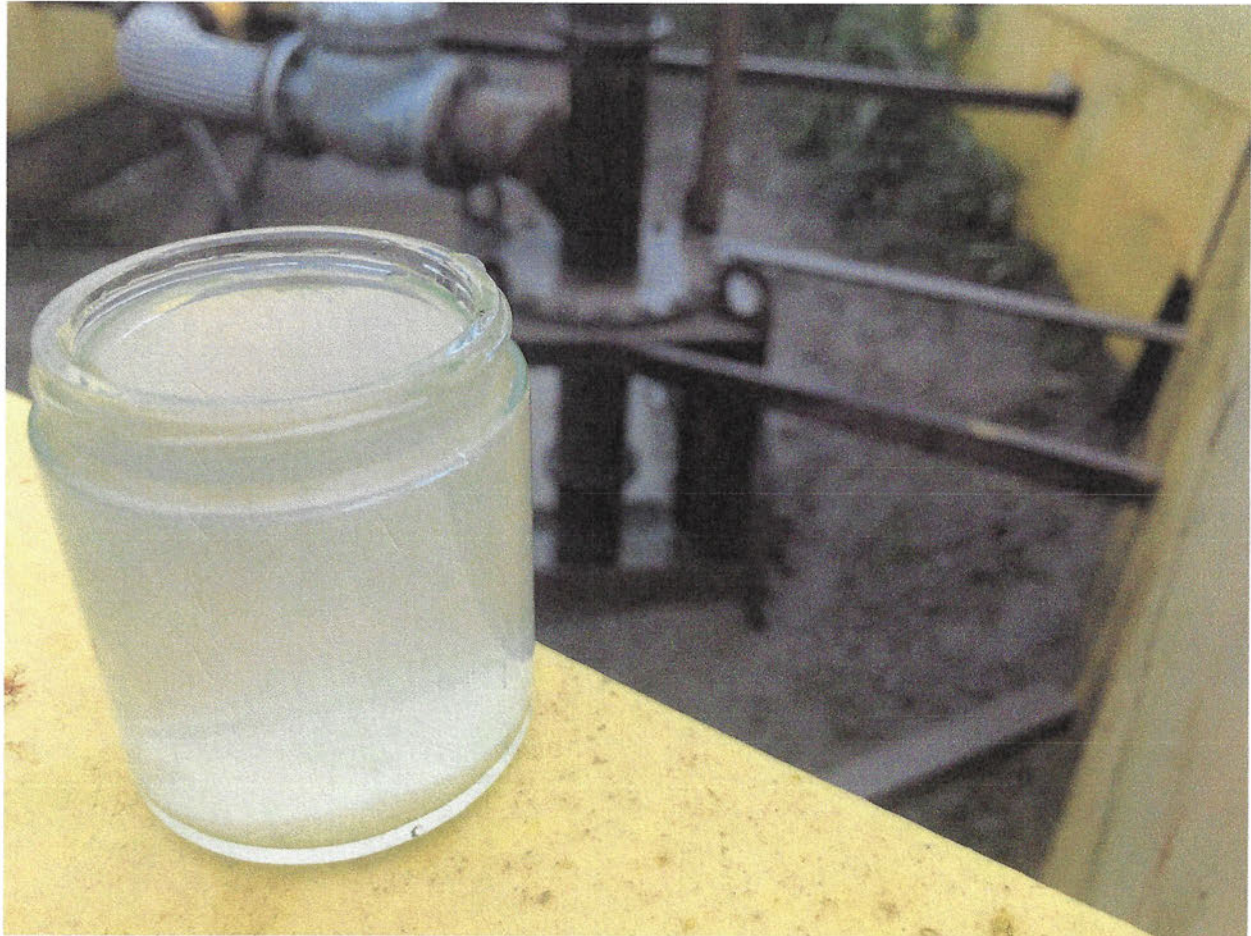
QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
1st Quarter

Outfall: 002

Inspection Date: 05/05/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
3rd Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 07/27/22
Inspection Time: 13:25
Signature: *Nate Brooks*

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

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QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
3rd Quarter

Outfall: 001

Inspection Date: 07/27/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
3rd Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 07/27/22
Inspection Time: 13:25
Signature: 

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

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Prepared for:

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MAINTENANCE & REPAIR, INC.

Foot of Hawthorne St.
Hartford, IL 62048
(618) 254-7451

Prepared by:



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QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
3rd Quarter

Outfall: 002

Inspection Date: 07/27/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 001
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 10/25/22
Inspection Time: 09:30
Signature: 

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

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Prepared by:



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QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 001

Inspection Date: 10/25/22

The photo below shows stormwater collected in a glass jar and inspected for the above year/quarter:





QUARTERLY VISUAL INSPECTION
National Maintenance & Repair, Inc.
401 S. Hawthorne St., Hartford, IL 62048
NPDES Permit IL0068055

Year: 2022
4th Quarter

Outfall: 002
Time of Rainfall: within 1 hour
Inspector: Nate Brooks

Inspection Date: 10/25/22
Inspection Time: 09:30
Signature: [Signature]

Quarterly Visual Inspections at each stormwater discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Stormwater General Permits. These inspection should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or as soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probably source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

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Inspection Date: 10/25/22

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