# NPDES Permit No. IL0002640 Notice No. ASA:23082901.docx

Public Notice Beginning Date: May 24, 2024

Public Notice Ending Date: June 25, 2024

National Pollutant Discharge Elimination System (NPDES) Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency Bureau of Water Division of Water Pollution Control Permit Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 217/782-0610

Name and Address of Discharger:

PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60633 Name and Address of Facility:

PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60633 (Cook County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Anwar Azeem at 217/782-0610.

The applicant is engaged in manufacturing sulfuric acid, liquid sulfur dioxide, oleum, sodium bisulfite, sodium/potassium bisulfite, and sodium thiosulfate (SIC 2819). Plant operation results in an average discharge of 7 MGD of non-contact cooling water from outfall 001 and 2.5 MGD of non-contact cooling water from outfall 002.

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Application is made for existing discharges which is located in Cook County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

<u>Outfall</u>	Receiving Stream	Latitude		Longitude		Stream Classification	Integrity <u>Rating</u>
001	Calumet River	41° 40' 20"	North	87° 33' 09"	West	General Use	С
002	Calumet River	41° 40' 22"	North	87° 33' 07"	West	General Use	С

To assist you further in identifying the location of the discharge please see the attached map.

The subject facility discharges to the Calumet River at a point where 8.0 cfs of flow exists upstream of the outfall during critical 7Q10 lowflow conditions. The facility has a DAF of 7.0 MGD. The Calumet River is classified as a Chicago Area Waterway System Aquatic Life Use A Water. The Calumet River is not listed as a biologically significant stream in the 2008 Illinois Department of Natural Resources Publication Integrating Multiple Taxa in a Biological Stream Rating System, nor is it given an integrity rating in that document. The Calumet River, Waterbody Segment IL\_HAA-01, is listed on the 2020/2022 Illinois Integrated Water Quality Report and Section 303(d) List as impaired for fish consumption use with potential causes given as mercury and polychlorinated biphenyls, and primary contact use with potential cause given as fecal coliform. Aquatic life use is fully supported. The Calumet River is not subject to enhanced dissolved oxygen standards.

The Illinois EPA TMDL webpage updated 10/12/2022 does not list this facility as having a WLA as part of any completed or ongoing TMDL.

The following parameters have been identified as the pollutants causing impairment:

Designated Use	Potential Cause
Primary Contact Recreation, Aquatic Life Use, Fish Consumption	Fecal Coliform, pH, Phosphorus (Total), Silver, Mercury, PCBs

The discharges from the facility shall be monitored and limited at all times as follows:

	LOAD LIMI <u>DAF (</u>			CONCENTRATION LIMITS mg/l				
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION		
Outfall 001:								
Flow (MGD)								
Temperature						35 IAC 302.211		
рН						35 IAC 304.125		
<u>Outfall 002:</u> Flow (MGD)								
Temperature pH						35 IAC 302.211 35 IAC 304.125		

The following explain the conditions of the proposed permit:

The Special Conditions clarify flow, temperature, monitoring location, discharge monitoring report submission, 316(b), and additives.

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# Cooling Water Intake Structure (CWIS) Description and Operation Discussion provided by the facility:

The facility has one 36" intake line which draws non-contact cooling water from the Calumet River. At the river there are 2-3 pilings located in front of the intake pipe. At the pipe inlet a bar rake cover fabricated from 5/8 or 3/4 inch rebar on 8 or 12 inch centers keeps large debris from entering the pipe. The intake screen is typically submerged 6' from the surface elevation.

Once inside the facility, the water passes through 52 feet of 36 inch pipe into the cooling water pump house. At the exit of the 36 inch pipe the water flows through a rotating type 3/8" mesh basket screen. Cleaning of this screen is performed every shift by our chemical operators. The maximum velocity, at 15000 gpm, through the 3/8" mesh basket screens in 2.19 fps at low level and 1.31 fps at high level. Once the water passes through the basket screens, it is pulled through one of the 2 river water pumps rated at 6,000 gpm each. Both pumps can be operated at any one time resulting in a design flow of 12,000 gpm or 17.28 MGD. Finally, the water is then moved through heat exchangers where it picks up waste heat and is conveyed through a 24 inch and a 16 inch return header and back to the Calumet River at outfalls 1 and 2.

The cooling water system and cooling water intake structure are intended for year-round, 24 hours/day operation, with the exception of down time due to maintenance.

# Agency Discussion:

The facilities current NPDES permit did not contain a 316(b) special condition. Therefore additional information was requested during the permit renewal review.

40 CFR 122.21(r)(1)(ii) states that all existing facilities must submit for review the information required under paragraphs (r)(2) – (8). At this time the facility has not submitted any of the information required under (r)(2) – (8).

To comply with the impingement standard, facilities are required to comply with one of the seven alternatives as outlined in 40 CFR 125.04(c). At this time, the facility has not selected its intended method of compliance with impingement mortality standard.

For entrainment, the facility has not previously conducted studies on entrainment. The facility withdraws less than 125 MGD therefore they are not required to submit the information required by (r)(9) - (13). 40 CFR 125.94(d) states that the Agency must make a BTA determination for existing facilities on a site specific basis. At this time, the facility has not provided its demonstration of compliance with BTA for entrainment.

40 CFR 125.95(a)(2) provides that an alternative schedule may be established for the submittal of certain application requirements (as necessary), for permits which expire on or before July 14, 2018 and this permit expired on September 30, 2017. Pursuant to that section, the Agency hereby establishes an alternative schedule for the submittal of (r)(2) - (8) and a detailed demonstration of compliance with BTA for entrainment. This information should be submitted with the next renewal application in accordance with Special Condition 9.

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### 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:

Issue Date: Effective Date:

Calumet River

Name and Address of Permittee:	Facility Name and Address:				
PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60633	PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60633 (Cook County)				
Discharge Number and Name:	Receiving Waters:				
001 Non-contact Cooling Water	Calumet 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.

Darin E. LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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002 Non-contact Cooling Water

# Effluent Limitations and Monitoring

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

	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCEN LIMITS			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
<u>Outfall 001</u> – Non-Contact Cooling Water (Average Flow = 7 MGD)						
Flow (MGD)	See Special Cor	ndition 1.		1/Month	Measure	
рН	See Special Cor	ndition 10.	1/Week	Grab		
Temperature	See Special Cor	ndition 2.			1/Month	Grab
<u>Outfall 001</u> – Non-Contact (Average Flow = 7 MGD) Flow (MGD) pH	Cooling Water See Special Cor See Special Cor	ndition 1. ndition 10.	AVERAGE	MAXIMUM	1/Month 1/Week	Measure Grab

# <u>Outfall 002</u> – Non-Contact Cooling Water (Average Flow = 2.5 MGD)

Flow (MGD)	See Special Condition 1.	1/Month	Measure
рН	See Special Condition 10.	1/Week	Grab
Temperature	See Special Condition 2.	1/Month	Grab

# **Special Conditions**

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

<u>SPECIAL CONDITION 2</u>. This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more the 1.7° C (3° F).

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	Oct.	<u>Nov.</u>	Dec.
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

- B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C (5° F).
- D. The monthly maximum value shall be reported on the DMR form.

<u>SPECIAL CONDITION 3</u>. 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.

<u>SPECIAL CONDITION 4</u>. 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 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, <u>https://epa.illinois.gov/topics/water-quality/surface-water/netdmr.html.</u>

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

<u>SPECIAL CONDITION 5</u>. For the purpose of this permit, the discharge from outfalls 001 and 002 are limited to non-contact cooling water free from process and other wastewater discharge.

<u>SPECIAL CONDITION 6.</u> 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.

<u>SPECIAL CONDITION 7</u>. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions – Attachment H.

<u>SPECIAL CONDITION 8</u>. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 III. Adm. Code 302.

# **Special Conditions**

<u>SPECIAL CONDITION 9</u>. Based on limited information available at the time of permit reissuance, the Agency has determined that the operation of the cooling water intake structure meets the equivalent of Best Technology Available (BTA) in accordance with the Best Professional Judgment provisions of 40 CFR 125.90(b) and 125.98(b)(5). In order for the Agency to make a BTA determination for impingement mortality and entrainment the facility must submit the required information under 40 CFR 122.21(r)(2) – (8) and a detailed demonstration of compliance with BTA for entrainment. Pursuant to 40 CFR 125.95(a)(2), the Agency hereby establishes an alternative schedule for the submittal of the necessary information. The information shall be submitted to the Agency with the next renewal application.

Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

<u>SPECIAL CONDITION 10</u>. 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.

<u>SPECIAL CONDITION 11</u>. The permittee shall conduct a monthly facility inspection to verify that stormwater runoff is not discharging into outfalls 001, 002, or anywhere else off-property to the Calumet River or any other water-of-the-state and report the results of the inspection on the DMR form. Observations that require a response and the appropriate response to the observation shall be made on the DMR form. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

<u>SPECIAL CONDITION 12</u>. Discharges from this permit are limited to non-contact cooling water only. Stormwater is currently discharged to Metropolitan Water Reclamation District of Greater Chicago (MWRD). Additional discharges, including stormwater, will require NPDES permit modification and will be subject to public notice and opportunity for public hearing.

<u>SPECIAL CONDITION 13.</u> The permittee shall submit to the Agency address, as specified in Special Condition 4, a report containing the placement of all spill containment structures as well as a spill containment plan within 30 days of the issuance of this permit. The permittee shall submit any changes to this plan to the Agency within 30 days of those changes.



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JB Pritzker, Governor John J. Kim, Director

217/782-0610

PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60633

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Draft Permit

Permittee:

Attached to this letter is a copy of the draft Permit, Public Notice/Fact Sheet for your discharge. The Agency proposes to issue the NPDES Permit for your discharge as shown in the draft Permit.

Fifteen days from the date of this letter, the Agency proposes to distribute the attached Public Notice/Fact Sheet statewide. If you have objections to the content of the Public Notice/Fact Sheet, a written statement must be received by the Agency at the indicated address, attention: NPDES PN Clerk within 10 days.

The Agency will receive comments regarding the Permit for a period of 30 days after the Public Notice is issued. If you wish to comment or object to any of the terms and conditions of the Permit, you must state the objections in writing prior to the end of the public notice. The Agency may or may not change the Permit based on comments received from you or the public.

If you should have questions or comments regarding the above, please contact Anwar Azeem at 217/782-0610.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachments: Draft Permit, Public Notice/Fact Sheet

cc: Records Unit Compliance Assurance Section



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JB Pritzker, Governor John J. Kim, Director

217/782-0610

U.S. Army Corps of Engineers Chicago District Attn: Regulatory Branch River Center Building 231 S. LaSalle Street, Suite 1500 Chicago, Illinois 60604

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Request for Corps of Engineers Comment

To Whom It May Concern:

Attached please find a copy of the Public Notice/Fact Sheet for the subject discharge. Please review for determination of the impact of this discharge on navigation and anchorage. If no written reply is received at the indicated address, attention: NPDES PN Clerk within 15 days of the date of this request, the Agency will assume the Corps of Engineers has no objection to the proposed discharge.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachment: Public Notice/Fact Sheet



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JB Pritzker, Governor John J. Kim, Director

# MEMORANDUM

DATE:

TO: Manager, DWPC/FOS, Des Plaines Region

FROM: Darin LeCrone, Manager, Permit Section

SUBJECT: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Draft Permit, Public Notice/Fact Sheet

Please review the attached copy of the subject documents, and notify the Industrial Unit if you take exception to the limitations, sampling frequency, sample type or other requirements therein.

If no response is received within fifteen (15) days from the date of this memorandum, we will assume that you concur in the issuance of the Public Notice.

If you have any questions, please contact Anwar Azeem at 217/782-0610.

Thank you for your cooperation.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachments: Draft Permit, Public Notice/Fact Sheet



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JB Pritzker, Governor John J. Kim, Director

217/782-0610

Municipal Clerk Chicago Municipal Clerk 121 North LaSalle Street, Room 107 Chicago, Illinois 60602-1202

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Public Notice of Permit

Municipal Clerk:

In accordance with the requirements of the Illinois Pollution Control Board regulations of 35 Ill. Adm. Code 309.109(a)(2)(A), the attached National Pollutant Discharge Elimination System Public Notice is sent to a municipality in the vicinity of the applicant. The Agency understands that the applicant may not be associated with the municipality to which it is sent.

Please post the attached National Pollutant Discharge Elimination System Public Notice for a period of 30 days. In addition, please complete and return the enclosed postcard indicating the date of posting. Should you choose not to post the attached notice, please indicate so on the postcard and return.

Thank you for your cooperation.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachments: Public Notice/Fact Sheet, Post Card



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JB Pritzker, Governor John J. Kim, Director

217/782-0610

PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60635

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Public Notice Permit

Permittee:

Please post the attached Public Notice for the subject discharge for at least a period of thirty days from the date on the Notice in a conspicuous place on your premises.

We have enclosed a copy of the draft NPDES permit on which this official Public Notice is based. If you wish to comment on the draft permit, please do so within 30 days of the Public Notice date. If there are any questions, please contact Anwar Azeem at 217/782-0610 or the address listed above.

Thank you for your cooperation.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachments: Draft Permit, Public Notice/Fact Sheet

cc: Records Unit Compliance Assurance Section Des Plaines FOS CMAP DRSCW Sierra Club Greater Chicago Legal Clinic, Inc. People for Community Recovery Southeast Environmental Task Force



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217/782-0610

PVS Chemical Solutions, Inc. 12260 South Carondolet Avenue Chicago, Illinois 60635

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229 Final Permit

Permittee:

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 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, <u>https://epa.illinois.gov/topics/water-quality/surface-water/netdmr.html</u>. 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 Anwar Azeem at 217/782-0610.

Sincerely,

Darin E. LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachment: Final Permit

cc: Records Unit Compliance Assurance Section Des Plaines Region Billing CMAP DRSCW



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217/782-0610

Mr. Edward Karecki U.S. Fish & Wildlife Service Chicago Illinois Field Office 230 S. Dearborn St., Suite 2938 Chicago, Illinois 60604

Re: PVS Chemical Solutions, Inc. NPDES Permit No. IL0002640 Bureau ID# W0316000229

To Whom It May Concern:

In accordance with 40 CFR 124.10, we hereby submit a copy of the Public Notice/Fact Sheet for the above discharger. If no written reply is received at the indicated address, attention: NPDES PN Clerk within 30 days of the date of this request, the Agency will assume that the U.S. Fish and Wildlife Service has no objection to the proposed discharge.

Sincerely,

Darin LeCrone, P.E. Manager, Permit Section Division of Water Pollution Control

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Attachment: Public Notice/Fact Sheet