

# City of Rehoboth Beach



229 Rehoboth Avenue, P.O. Box 1163  
Rehoboth Beach, Delaware 19971

**GREGORY FERRESE**  
City Manager

(302) 227-6181  
Fax (302) 227-4643

September 28, 2010

Mr. Robert Underwood  
DNREC  
Division of Water Resources  
89 Kings Highway  
Dover, DE 19901



Dear Mr. Underwood:

Enclosed is the City of Rehoboth Beach NPDES Application.

If you have any questions, would you please contact our engineer, Mr. Rip Copithorn at Stearns & Wheler, Bowie New Town Center, 4201 Northview Drive, Suite 404, Bowie, Maryland 20716, telephone 301-805-5629.

Sincerely,

Gregory J. Ferrese

GJF:bb  
Enclosure



## Disclaimer



This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

### Instructions:

1. Type in your information
2. Save file (if desired)
3. Print the completed form
4. Sign and date the printed copy
5. Mail it to the directed contact.

**FACILITY NAME AND PERMIT NUMBER:**

City of Rehoboth Beach Wastewater Treatment Plant

Form Approved 1/14/99  
OMB Number 2040-0086

**FORM  
2A  
NPDES**

# NPDES FORM 2A APPLICATION OVERVIEW

## APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

### BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow  $\geq$  0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification.** All applicants must complete Part C (Certification).

### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  1. Has a design flow rate greater than or equal to 1 mgd,
  2. Is required to have a pretreatment program (or has one in place), or
  3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  1. Has a design flow rate greater than or equal to 1 mgd,
  2. Is required to have a pretreatment program (or has one in place), or
  3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  2. Any other industrial user that:
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

**ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)**

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## BASIC APPLICATION INFORMATION

### PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

#### A.1. Facility Information.

Facility name City of Rehoboth Beach Wastewater Treatment Plant

Mailing Address 229 Rehoboth Ave.  
Rehoboth Beach, DE 19971

Contact person Robert Stenger

Title Plant Operator

Telephone number (302) 227-7979

Facility Address Bay Road  
(not P.O. Box) Rehoboth Beach, DE 19971

#### A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name ----

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

Contact person \_\_\_\_\_

Title \_\_\_\_\_

Telephone number \_\_\_\_\_

#### Is the applicant the owner or operator (or both) of the treatment works?

owner       operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

facility       applicant

#### A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES DE0020028 PSD \_\_\_\_\_

UIC \_\_\_\_\_ Other \_\_\_\_\_

RCRA \_\_\_\_\_ Other \_\_\_\_\_

#### A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
<u>Rehoboth Beach</u>	<u>1609*</u>	<u>Seperate</u>	<u>Municipal</u>
<u>Dewey Beach</u>	<u>322*</u>	<u>Seperate</u>	<u>Municipal</u>
<u>Henlopen / North Shore</u>	<u>144* / 150**</u>	<u>Seperate</u>	<u>Municipal</u>

Total population served 2225 Source: \* State Census Data \*\* Estimated

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**A.5. Indian Country.**

a. Is the treatment works located in Indian Country?

Yes  No

b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

Yes  No

**A.6. Flow.** Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate 3.40 mgd (Max Month)

(See Attached Comment)

	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>
b. Annual average daily flow rate	<u>1.06</u>	<u>1.06</u>	<u>1.15</u> mgd
c. Maximum daily flow rate	<u>3.06</u>	<u>2.94</u>	<u>3.32</u> mgd

**A.7. Collection System.** Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

Separate sanitary sewer \_\_\_\_\_ %  
 Combined storm and sanitary sewer \_\_\_\_\_ %

**A.8. Discharges and Other Disposal Methods.**

a. Does the treatment works discharge effluent to waters of the U.S.?  Yes  No

If yes, list how many of each of the following types of discharge points the treatment works uses:

- i. Discharges of treated effluent 1
- ii. Discharges of untreated or partially treated effluent \_\_\_\_\_
- iii. Combined sewer overflow points \_\_\_\_\_
- iv. Constructed emergency overflows (prior to the headworks) \_\_\_\_\_
- v. Other \_\_\_\_\_

b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.?  Yes  No

If yes, provide the following for each surface impoundment:

Location: \_\_\_\_\_  
 Annual average daily volume discharged to surface impoundment(s) \_\_\_\_\_ mgd  
 Is discharge  continuous or  intermittent?

c. Does the treatment works land-apply treated wastewater?  Yes  No

If yes, provide the following for each land application site:

Location: \_\_\_\_\_  
 Number of acres: \_\_\_\_\_  
 Annual average daily volume applied to site: \_\_\_\_\_ Mgd  
 Is land application  continuous or  intermittent?

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?  Yes  No

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

\_\_\_\_\_

If transport is by a party other than the applicant, provide:

Transporter name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

Contact person: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone number: \_\_\_\_\_

For each treatment works that receives this discharge, provide the following:

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

Contact person: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone number: \_\_\_\_\_

If known, provide the NPDES permit number of the treatment works that receives this discharge. \_\_\_\_\_

Provide the average daily flow rate from the treatment works into the receiving facility. \_\_\_\_\_ mgd

e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?  Yes  No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

\_\_\_\_\_

Annual daily volume disposed of by this method: \_\_\_\_\_

Is disposal through this method  continuous or  intermittent?

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**WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

**A.9. Description of Outfall.**

- a. Outfall number New Outfall - See attached
- b. Location Rehoboth Beach 19971  
(City or town, if applicable) (Zip Code)  
Sussex County Delaware  
(County) (State)  
38° 43' 45.38" N 75° 3' 30.64" W  
(Latitude) (Longitude)
- c. Distance from shore (if applicable) 6,000.00 ft.
- d. Depth below surface (if applicable) 35.00 ft.
- e. Average daily flow rate 3.40 mgd
- f. Does this outfall have either an intermittent or a periodic discharge?  
 Yes  No (go to A.9.g.)  
 If yes, provide the following information:  
 Number of times per year discharge occurs: \_\_\_\_\_  
 Average duration of each discharge: \_\_\_\_\_  
 Average flow per discharge: \_\_\_\_\_ mgd  
 Months in which discharge occurs: \_\_\_\_\_
- g. Is outfall equipped with a diffuser?  Yes  No

**A.10. Description of Receiving Waters.**

- a. Name of receiving water Atlantic Ocean
- b. Name of watershed (if known) \_\_\_\_\_  
 United States Soil Conservation Service 14-digit watershed code (if known): \_\_\_\_\_
- c. Name of State Management/River Basin (if known): \_\_\_\_\_  
 United States Geological Survey 8-digit hydrologic cataloging unit code (if known): \_\_\_\_\_
- d. Critical low flow of receiving stream (if applicable):  
 acute \_\_\_\_\_ cfs chronic \_\_\_\_\_ cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): \_\_\_\_\_ mg/l of CaCO<sub>3</sub>

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**A.11. Description of Treatment.**

a. What levels of treatment are provided? Check all that apply.

Primary                       Secondary  
 Advanced                       Other. Describe: \_\_\_\_\_

b. Indicate the following removal rates (as applicable):

Design BOD<sub>5</sub> removal or Design CBOD<sub>5</sub> removal                      95.00 %  
 Design SS removal                      95.00 %  
 Design P removal                      85.00 %  
 Design N removal                      85.00 %  
 Other \_\_\_\_\_ %

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Chlorination

If disinfection is by chlorination, is dechlorination used for this outfall?                       Yes                       No

d. Does the treatment plant have post aeration?                       Yes                       No

**A.12. Effluent Testing Information.** All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: New Outfall - See attached                      **Results based on data collected from 8/1/2009 to 7/31/2010**

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.00	s.u.			
pH (Maximum)	7.10	s.u.			
Flow Rate	3.32	MGD	1.10	MGD	730.00
Temperature (Winter)	23.80	MGD	16.80	Deg C	92.00
Temperature (Summer)	29.90	MGD	24.79	Deg C	61.00

\* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

**CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.**

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5	13.10	mg/L	3.25	mg/L	234.00	SM 5210 B	
	CBOD-5							
FECAL COLIFORM *		17.80	mg/L	2.31	mg/L	257.00		
TOTAL SUSPENDED SOLIDS (TSS)		19.50	mg/L	5.31	mg/L	183.00	SM 2540 D	

**END OF PART A.  
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

\* Current Permit based on Enterococcus

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**BASIC APPLICATION INFORMATION**

**PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).**

All applicants with a design flow rate  $\geq$  0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

**B.1. Inflow and Infiltration.** Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.  
\_\_\_\_\_ gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

An I/I study was completed in around 1982. The nature of the peak flows at the RBWWTP do not indicate that the collection system is subject to excessive I/I. The city and other service areas outside the City are proactive in repairing or replacing pipe sections which occasionally are identified as a sources of infiltration.

**B.2. Topographic Map.** Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- a. The area surrounding the treatment plant, including all unit processes.
- b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- c. Each well where wastewater from the treatment plant is injected underground.
- d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant. **Information requested from DNREC**
- e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

**See Attached - Facility Layout and topographical map of sounding area provided as two separate maps**

**B.3. Process Flow Diagram or Schematic.** Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

**See Attached - Backup power sources and redundancy shown on the one line**

**B.4. Operation/Maintenance Performed by Contractor(s).** **diagram. Brief Narrative Included on last page of this application.**

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?  Yes  No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Responsibilities of Contractor: \_\_\_\_\_

**B.5. Scheduled Improvements and Schedules of Implementation.** Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

- a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.  
This permit application will require a new outfall (ocean discharge) - See attached
- b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.  
 Yes  No

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- c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).
- 

- d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM / DD / YYYY	Actual Completion MM / DD / YYYY	
- Begin construction	10 / 1 / 2,013	___ / ___ / ___	<b>(See Attached Comment)</b>
- End construction	5 / 15 / 2,014	___ / ___ / ___	
- Begin discharge	5 / 15 / 2,014	___ / ___ / ___	
- Attain operational level	12 / 31 / 2,014	___ / ___ / ___	

- e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?  Yes  No

Describe briefly: Ocean outfall is currently in permitting phase. Schedule is for outfall construction. Plant rehab schedule expected to match.

**B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).**

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 1

**Results based on data collected from 8/1/2009 to 7/31/2010**

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
<b>CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.</b>							
AMMONIA (as N)	13.60	mg/L	0.90	mg/L	158.00	SM 4500NH3 - D	
CHLORINE (TOTAL RESIDUAL, TRC)	5.00	mg/L	2.19	mg/L	691.00	Hach 8167	
DISSOLVED OXYGEN	11.56	mg/L	8.87	mg/L	518.00	SM 4500-0 G	
TOTAL KJELDAHL NITROGEN (TKN)	15.97	mg/L	1.76	mg/L	310.00	SM 4500 N org-C	
NITRATE PLUS NITRITE NITROGEN	31.74	mg/L	5.39	mg/L	306.00	SM 4500 NO3 - D	
OIL and GREASE	Not Measured						
PHOSPHORUS (Total)	1.72	mg/L	0.34	mg/L	301.00	Hach 8190	
TOTAL DISSOLVED SOLIDS (TDS)	Not Measured						
OTHER							

**END OF PART B.  
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

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**BASIC APPLICATION INFORMATION**

**PART C. CERTIFICATION**

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

**Indicate which parts of Form 2A you have completed and are submitting:**

Basic Application Information packet

Supplemental Application Information packet:

Part D (Expanded Effluent Testing Data)

Part E (Toxicity Testing: Biomonitoring Data)

Part F (Industrial User Discharges and RCR/CERCLA Wastes)

Part G (Combined Sewer Systems)

**ALL APPLICANTS MUST COMPLETE 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 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.

Name and official title Copago, Ferrese City Manager City of Rehoboth Beach

Signature [Handwritten Signature]

Telephone number 302-227-4641

Date signed 9/28/10

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

**SEND COMPLETED FORMS TO:**

**FACILITY NAME AND PERMIT NUMBER:**  
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**SUPPLEMENTAL APPLICATION INFORMATION**

**PART D. EXPANDED EFFLUENT TESTING DATA**

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

**Effluent Testing: 1.0 mgd and Pretreatment Treatment Works.** If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: New Outfall (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		

**METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.**

ANTIMONY	< 0.0010	mg/L	0.016	lb/day	< 0.0010	mg/L	0.015	lb/day	3	EPA 200.8	
ARSENIC	0.0019	mg/L	0.030	lb/day	0.0013	mg/L	0.019	lb/day	3	EPA 200.8	
BERYLLIUM	< 0.0010	mg/L	0.016	lb/day	< 0.0010	mg/L	0.015	lb/day	3	EPA 200.8	
CADMIUM	< 0.00050	mg/L	0.008	lb/day	< 0.00050	mg/L	0.007	lb/day	3	EPA 200.8	
CHROMIUM	0.0030	mg/L	0.048	lb/day	0.0022	mg/L	0.033	lb/day	3	EPA 200.8	
COPPER	0.0070	mg/L	0.111	lb/day	0.0045	mg/L	0.068	lb/day	3	EPA 200.8	
LEAD	< 0.0010	mg/L	0.016	lb/day	< 0.0010	mg/L	0.015	lb/day	3	EPA 200.8	
MERCURY	< 0.00050	mg/L	0.008	lb/day	< 0.00050	mg/L	0.007	lb/day	3	EPA 245.1	
NICKEL	0.0062	mg/L	0.099	lb/day	0.0045	mg/L	0.066	lb/day	3	EPA 200.8	
SELENIUM	< 0.0010	mg/L	0.016	lb/day	< 0.0010	mg/L	0.015	lb/day	3	EPA 200.8	
SILVER	0.0008	mg/L	0.011	lb/day	0.0006	mg/L	0.009	lb/day	3	EPA 200.8	
THALLIUM	< 0.0010	mg/L	0.016	lb/day	< 0.0010	mg/L	0.015	lb/day	3	EPA 200.8	
ZINC	0.0467	mg/L	0.743	lb/day	0.0351	mg/L	0.527	lb/day	3	EPA 200.8	
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO <sub>3</sub> )											

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.


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Outfall number: New Outfall (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
<b>VOLATILE ORGANIC COMPOUNDS.</b>											
ACROLEIN	ND	ug/L			ND	ug/L			3	EPA 624	
ACRYLONITRILE	ND	ug/L			ND	ug/L			3	EPA 624	
BENZENE	ND	ug/L			ND	ug/L			3	EPA 624	
BROMOFORM	ND	ug/L			ND	ug/L			3	EPA 624	
CARBON TETRACHLORIDE	ND	ug/L			ND	ug/L			3	EPA 624	
CLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 624	
CHLORODIBROMO-METHANE	ND	ug/L			ND	ug/L			3	EPA 624	
CHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 624	
2-CHLORO-ETHYLVINYL ETHER	ND	ug/L			ND	ug/L			3	EPA 624	
CHLOROFORM	1.1	ug/l	0.016	lbs/day	1.0	ug/L	0.015	lbs/day	3	EPA 624	
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 624	
1,2-DICHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 624	
TRANS-1,2-DICHLORO-ETHYLENE	ND	ug/L			ND	ug/L			3	EPA 624	
1,1-DICHLOROETHYLENE	ND	ug/L			ND	ug/L			3	EPA 624	
1,2-DICHLOROPROPANE	ND	ug/L			ND	ug/L			3	EPA 624	
1,3-DICHLORO-PROPYLENE	ND	ug/L			ND	ug/L			3	EPA 624	
ETHYLBENZENE	ND	ug/L			ND	ug/L			3	EPA 624	
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE	ND	ug/L			ND	ug/L			3	EPA 624	
1,1,2,2-TETRACHLORO-ETHANE	ND	ug/L			ND	ug/L			3	EPA 624	
TETRACHLORO-ETHYLENE	ND	ug/L			ND	ug/L			3	EPA 624	
TOLUENE	ND	ug/L			ND	ug/L			3	EPA 624	

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Outfall number: New Outfall (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 625	
1,1,2-TRICHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 625	
TRICHLOROETHYLENE	ND	ug/L			ND	ug/L			3	EPA 625	
VINYL CHLORIDE	ND	ug/L			ND	ug/L			3	EPA 625	

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

Note: ND = Not Detected

**ACID-EXTRACTABLE COMPOUNDS**

P-CHLORO-M-CRESOL											
2-CHLOROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
2,4-DICHLOROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
2,4-DIMETHYLPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
2-NITROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
4-NITROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
PENTACHLOROPHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
PHENOL	ND	ug/L			ND	ug/L			3	EPA 625	
2,4,6-TRICHLOROPHENOL											

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

**BASE-NEUTRAL COMPOUNDS.**

ACENAPHTHENE	ND	ug/L			ND	ug/L			3	EPA 625	
ACENAPHTHYLENE	ND	ug/L			ND	ug/L			3	EPA 625	
ANTHRACENE	ND	ug/L			ND	ug/L			3	EPA 625	
BENZIDINE	ND	ug/L			ND	ug/L			3	EPA 625	
BENZO(A)ANTHRACENE	ND	ug/L			ND	ug/L			3	EPA 625	
BENZO(A)PYRENE	ND	ug/L			ND	ug/L			3	EPA 625	

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	ND	ug/L			ND	ug/L			3	EPA 625	
BENZO(GHI)PERYLENE	ND	ug/L			ND	ug/L			3	EPA 625	
BENZO(K)FLUORANTHENE	ND	ug/L			ND	ug/L			3	EPA 625	
BIS (2 CHLOROETHOXY) METHANE	ND	ug/L			ND	ug/L			3	EPA 625	
BIS (2-CHLOROETHYL)-ETHER	ND	ug/L			ND	ug/L			3	EPA 625	
BIS (2-CHLOROISO-PROPYL) ETHER	ND	ug/L			ND	ug/L			3	EPA 625	
BIS (2-ETHYLHEXYL) PHTHALATE	8.0	ug/L	0.098	lbs/day	4.5	ug/L	0.008	lbs/day	3	EPA 625	
4-BROMOPHENYL PHENYL ETHER	ND	ug/L			ND	ug/L			3	EPA 625	
BUTYL BENZYL PHTHALATE	ND	ug/L			ND	ug/L			3	EPA 625	
2-CHLORONAPHTHALENE	ND	ug/L			ND	ug/L			3	EPA 625	
4-CHLORPHENYL PHENYL ETHER	ND	ug/L			ND	ug/L			3	EPA 625	
CHRYSENE	ND	ug/L			ND	ug/L			3	EPA 625	
DI-N-BUTYL PHTHALATE	ND	ug/L			ND	ug/L			3	EPA 625	
DI-N-OCTYL PHTHALATE	ND	ug/L			ND	ug/L			3	EPA 625	
DIBENZO(A,H) ANTHRACENE	ND	ug/L			ND	ug/L			3	EPA 625	
1,2-DICHLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625	
1,3-DICHLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625	
1,4-DICHLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625	
3,3-DICHLOROBENZIDINE	ND	ug/L			ND	ug/L			3	EPA 625	
DIETHYL PHTHALATE	ND	ug/L			ND	ug/L			3	EPA 625	
DIMETHYL PHTHALATE	ND	ug/L			ND	ug/L			3	EPA 625	
2,4-DINITROTOLUENE	ND	ug/L			ND	ug/L			3	EPA 625	
2,6-DINITROTOLUENE	ND	ug/L			ND	ug/L			3	EPA 625	
1,2-DIPHENYLHYDRAZINE	ND	ug/L			ND	ug/L			3	EPA 625	

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
FLUORANTHENE												
FLUORENE	ND	ug/L			ND	ug/L			3	EPA 625		
HEXACHLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625		
HEXACHLOROBUTADIENE	ND	ug/L			ND	ug/L			3	EPA 625		
HEXACHLOROCYCLO-PENTADIENE	ND	ug/L			ND	ug/L			3	EPA 625		
HEXACHLOROETHANE	ND	ug/L			ND	ug/L			3	EPA 625		
INDENO(1,2,3-CD)PYRENE	ND	ug/L			ND	ug/L			3	EPA 625		
ISOPHORONE	ND	ug/L			ND	ug/L			3	EPA 625		
NAPHTHALENE	ND	ug/L			ND	ug/L			3	EPA 625		
NITROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625		
N-NITROSODI-N-PROPYLAMINE	ND	ug/L			ND	ug/L			3	EPA 625		
N-NITROSODI- METHYLAMINE	ND	ug/L			ND	ug/L			3	EPA 625		
N-NITROSODI-PHENYLAMINE	ND	ug/L			ND	ug/L			3	EPA 625		
PHENANTHRENE	ND	ug/L			ND	ug/L			3	EPA 625		
PYRENE	ND	ug/L			ND	ug/L			3	EPA 625		
1,2,4-TRICHLOROBENZENE	ND	ug/L			ND	ug/L			3	EPA 625		

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

--	--	--	--	--	--	--	--	--	--	--	--	--

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

--	--	--	--	--	--	--	--	--	--	--	--	--

**END OF PART D.  
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM  
 2A YOU MUST COMPLETE**

**FACILITY NAME AND PERMIT NUMBER:**

City of Rehoboth Beach Wastewater Treatment Plant

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**SUPPLEMENTAL APPLICATION INFORMATION**

**PART E. TOXICITY TESTING DATA**

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

**E.1. Required Tests. (See Attached Comment)**

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

\_\_\_ chronic      \_\_\_ acute

**E.2. Individual Test Data.** Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: \_\_\_\_\_ Test number: \_\_\_\_\_ Test number: \_\_\_\_\_

a. Test information.

Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			

b. Give toxicity test methods followed.

Manual title			
Edition number and year of publication			
Page number(s)			

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite			
Grab			

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection			
After disinfection			
After dechlorination			

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Test number: \_\_\_\_\_ Test number: \_\_\_\_\_ Test number: \_\_\_\_\_

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:			
-----------------------	--	--	--

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity			
Acute toxicity			

g. Provide the type of test performed.

Static			
Static-renewal			
Flow-through			

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water			
Receiving water			

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water			
Salt water			

j. Give the percentage effluent used for all concentrations in the test series.


k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			

l. Test Results.

Acute:			
Percent survival in 100% effluent	%	%	%
LC <sub>50</sub>			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

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## Chronic:

NOEC	%	%	%
IC <sub>25</sub>	%	%	%
Control percent survival	%	%	%
Other (describe)			

## m. Quality Control/Quality Assurance.

Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			

**E.3. Toxicity Reduction Evaluation.** Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes  No      If yes, describe: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**E.4. Summary of Submitted Biomonitoring Test Information.** If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: \_\_\_\_\_ (MM/DD/YYYY)

Summary of results: (see instructions)  
 \_\_\_\_\_  
 \_\_\_\_\_

**END OF PART E.  
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM  
 2A YOU MUST COMPLETE.**

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**SUPPLEMENTAL APPLICATION INFORMATION**

**PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES** **NOT APPLICABLE**  
All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

**GENERAL INFORMATION:**

**F.1. Pretreatment Program.** Does the treatment works have, or is it subject to, an approved pretreatment program?  
 Yes  No

**F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs).** Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. \_\_\_\_\_

b. Number of CIUs. \_\_\_\_\_

**SIGNIFICANT INDUSTRIAL USER INFORMATION:**

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

**F.3. Significant Industrial User Information.** Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

**F.4. Industrial Processes.** Describe all of the industrial processes that affect or contribute to the SIU's discharge.  
\_\_\_\_\_

**F.5. Principal Product(s) and Raw Material(s).** Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): \_\_\_\_\_

Raw material(s): \_\_\_\_\_

**F.6. Flow Rate.**

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  
\_\_\_\_\_ gpd (  continuous or  intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  
\_\_\_\_\_ gpd (  continuous or  intermittent)

**F.7. Pretreatment Standards.** Indicate whether the SIU is subject to the following:

a. Local limits  Yes  No

b. Categorical pretreatment standards  Yes  No

If subject to categorical pretreatment standards, which category and subcategory?  
\_\_\_\_\_

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**F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU.** Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

Yes  No If yes, describe each episode.

\_\_\_\_\_  
\_\_\_\_\_

**RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:**

**F.9. RCRA Waste.** Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe?  Yes  No (go to F.12.)

**F.10. Waste Transport.** Method by which RCRA waste is received (check all that apply):

Truck  Rail  Dedicated Pipe

**F.11. Waste Description.** Give EPA hazardous waste number and amount (volume or mass, specify units).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

**CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:**

**F.12. Remediation Waste.** Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

Yes (complete F.13 through F.15.)  No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

**F.13. Waste Origin.** Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**F.14. Pollutants.** List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

\_\_\_\_\_  
\_\_\_\_\_

**F.15. Waste Treatment.**

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

Yes  No

If yes, describe the treatment (provide information about the removal efficiency):

\_\_\_\_\_  
\_\_\_\_\_

b. Is the discharge (or will the discharge be) continuous or intermittent?

Continuous  Intermittent If intermittent, describe discharge schedule.

\_\_\_\_\_

**END OF PART F.  
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

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**SUPPLEMENTAL APPLICATION INFORMATION**

**PART G. COMBINED SEWER SYSTEMS NOT APPLICABLE**

If the treatment works has a combined sewer system, complete Part G.

**G.1. System Map.** Provide a map indicating the following: (may be included with Basic Application Information)

- a. All CSO discharge points.
- b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
- c. Waters that support threatened and endangered species potentially affected by CSOs.

**G.2. System Diagram.** Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:

- a. Locations of major sewer trunk lines, both combined and separate sanitary.
- b. Locations of points where separate sanitary sewers feed into the combined sewer system.
- c. Locations of in-line and off-line storage structures.
- d. Locations of flow-regulating devices.
- e. Locations of pump stations.

**CSO OUTFALLS:**

Complete questions G.3 through G.6 once for each CSO discharge point.

**G.3. Description of Outfall.**

- a. Outfall number \_\_\_\_\_
- b. Location \_\_\_\_\_  
 (City or town, if applicable) (Zip Code)  
 \_\_\_\_\_  
 (County) (State)  
 \_\_\_\_\_  
 (Latitude) (Longitude)
- c. Distance from shore (if applicable) \_\_\_\_\_ ft.
- d. Depth below surface (if applicable) \_\_\_\_\_ ft.
- e. Which of the following were monitored during the last year for this CSO?  
 \_\_\_ Rainfall      \_\_\_ CSO pollutant concentrations      \_\_\_ CSO frequency  
 \_\_\_ CSO flow volume      \_\_\_ Receiving water quality
- f. How many storm events were monitored during the last year? \_\_\_\_\_

**G.4. CSO Events.**

- a. Give the number of CSO events in the last year.  
 \_\_\_\_\_ events (\_\_\_ actual or \_\_\_ approx.)
- b. Give the average duration per CSO event.  
 \_\_\_\_\_ hours (\_\_\_ actual or \_\_\_ approx.)

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c. Give the average volume per CSO event.  
\_\_\_\_\_ million gallons (\_\_\_\_\_ actual or \_\_\_\_\_ approx.)

d. Give the minimum rainfall that caused a CSO event in the last year.  
\_\_\_\_\_ inches of rainfall

**G.5. Description of Receiving Waters.**

a. Name of receiving water: \_\_\_\_\_

b. Name of watershed/river/stream system: \_\_\_\_\_

United States Soil Conservation Service 14-digit watershed code (if known): \_\_\_\_\_

c. Name of State Management/River Basin: \_\_\_\_\_

United States Geological Survey 8-digit hydrologic cataloging unit code (if known): \_\_\_\_\_

**G.6. CSO Operations.**

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

\_\_\_\_\_  
\_\_\_\_\_

**END OF PART G.  
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM  
2A YOU MUST COMPLETE.**

## Comments

A6.

Average daily flow varies seasonally. Based on data from the last 12 months, the summer and winter average daily flow is:

Summer (May to September): 1.49 MGD

Winter (October to April): 0.91 MGD

B5.

The WWTP is under a consent order to eliminate their current discharge to the Lewes-Rehoboth canal. The deadline is December 31, 2014. The proposed solution is to discharge through an ocean outfall which is currently in the permitting phase.

The City intends to upgrade or rehabilitate the major unit processes to preserve the future life and reliability of the treatment plant. New work is in the facility planning stage now with no deadline for construction.

E.

Biotoxicity tests were conducted annually by the WWTP up to and including 2008. There have been no chronic or acute toxicity. The test results are on file with DNREC. Copies of the 2007 and 2008 test results are available from the city if required.

## Process Diagram Description:

Wastewater treatment is provided by bar screens, a grit collector, emergency off-line diversion tanks, two total barrier oxidation ditches, chemical addition for phosphorus removal, two secondary clarifiers, two microscreens, chlorination and de-chlorination tanks, and post aeration. Waste sludge is aerobically digested, thickened, and land applied as a liquid or dewatered by a belt press and taken to a sanitary landfill.





## Disclaimer

This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

**Instructions:**

1. Type in your information
2. Save file (if desired)
3. Print the completed form
4. Sign and date the printed copy
5. Mail it to the directed contact.



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Permits Division

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# Application Form 1 – General Information

## Consolidated Permits Program

This form must be completed by all persons applying for a permit under EPA's Consolidated Permits Program. See the general instructions to Form 1 to determine which other application forms you will need.

DESCRIPTION OF CONSOLIDATED PERMIT APPLICATION FORMS	FORM 1 PACKAGE TABLE OF CONTENTS
<p>The Consolidated Permit Application Forms are:</p> <p>Form 1 – General Information (<i>included in this part</i>);</p> <p>Form 2 – Discharges to Surface Water (<i>NPDES Permits</i>):</p> <p>    2A. Publicly owned Treatment Works (<i>Reserved - not included in this package</i>),</p> <p>    2B. Concentrated Animal Feeding Operations and Aquatic Animal Production Facilities (<i>not included in this package</i>),</p> <p>    2C. Existing Manufacturing, Commercial, Mining, and Silvicultural Operations (<i>not included in this package</i>), and</p> <p>    2D. New Manufacturing, Commercial, Mining, and Silvicultural Operations (<i>Reserved - not included in this package</i>);</p> <p>Form 3 – Hazardous Waste Application Form (<i>RCRA Permits - not included in this package</i>);</p> <p>Form 4 – Underground Injection of Fluids (<i>UIC Permits - Reserved - not included in this package</i>); and</p> <p>Form 5 – Air Emissions in Attainment Areas (<i>PSD Permits - Reserved - not included in this package</i>).</p>	<p>Section A. General Instructions</p> <p>Section B. Instructions for Form 1</p> <p>Section C. Activities Which Do Not Require Permits</p> <p>Section D. Glossary</p> <p>Form 1 (<i>two copies</i>)</p>

## SECTION A – GENERAL INSTRUCTIONS

### Who Must Apply

With the exceptions described in Section C of these instructions, Federal laws prohibit you from conducting any of the following activities without a permit.

**NPDES** (*National Pollutant Discharge Elimination System Under the Clean Water Act, 33 U.S.C. 1251*). Discharge of pollutants into the waters of the United States.

**RCRA** (*Resource Conservation and Recovery Act, 42 U.S.C. 6901*). Treatment, storage, or disposal of hazardous wastes.

**UIC** (*Underground Injection Control Under the Safe Drinking Water Act, 42 U.S.C. 300f*). Injection of fluids underground by gravity flow or pumping.

**PSD** (*Prevention of Significant Deterioration Under the Clean Air Act, 72 U.S.C. 7401*). Emission of an air pollutant by a new or modified facility in or near an area which has attained the National Ambient Air Quality Standards for that pollutant.

Each of the above permit programs is operated in any particular State by either the United States Environmental Protection Agency (EPA) or by an approved State agency. You must use this application form to apply for a permit for those programs administered by EPA. For those programs administered by approved states, contact the State environmental agency for the proper forms.

If you have any questions about whether you need a permit under any of the above programs, or if you need information as to whether a particular program is administered by EPA or a State agency, or if you need to obtain application forms, contact your EPA Regional office (*listed in Table 1*).

Upon your request, and based upon information supplied by you, EPA will determine whether you are required to obtain a permit for a particular facility. Be sure to contact EPA if you have a question, because Federal laws provide that you may be heavily penalized if you do not apply for a permit when a permit is required.

Form 1 of the EPA consolidated application forms collects general information applying to all programs. You must fill out Form 1 regardless of which permit you are applying for. In addition, you must fill out one of the supplementary forms (*Forms 2 – 5*) for each permit

needed under each of the above programs. Item II of Form 1 will guide you to the appropriate supplementary forms.

You should note that there are certain exclusions to the permit requirements listed above. The exclusions are described in detail in Section C of these instructions. If your activities are excluded from permit requirements then you do not need to complete and return any forms.

**NOTE:** Certain activities not listed above also are subject to EPA administered environmental permit requirements. These include permits for ocean dumping, dredged or fill material discharging, and certain types of air emissions. Contact your EPA Regional office for further information.

### Table 1. Addresses of EPA Regional Contacts and States Within the Regional Office Jurisdictions

#### REGION 1

Permit Contact, Environmental and Economic Impact Office, U.S. Environmental Protection Agency, 1 Congress St., Suite 1100, Boston, MA 02114-2023, Phone: (617) 918-1111, Fax: (617) 918-1809, Toll free within Region 1: (888) 372-7341, <http://www.epa.gov/region01/>.  
Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

#### REGION 2

Permit Contact, Permits Administration Branch, U.S. Environmental Protection Agency, 290 Broadway, New York, NY 10007-1866, Phone: (212) 637-3000, Fax: (212) 637-3526, <http://www.epa.gov/region02/>.  
New Jersey, New York, Virgin Islands, and Puerto Rico.

#### REGION 3

Permit Contact (3 EN 23), U.S. Environmental Protection Agency, 1650 Arch Street, Philadelphia, PA 19103-2029, Phone: (215) 814-5000, Fax: (215) 814-5103, Toll free: (800) 438-2474, <http://www.epa.gov/region03/>.  
Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

## SECTION A – GENERAL INSTRUCTIONS

### REGION 4

Permit Contact, Permits Section, U.S. Environmental Protection Agency, Atlanta Federal Center, 61 Forsyth Street, SW, Atlanta, GA 30303-3104, Phone: (404) 562-9900, Fax: (404) 562-8174, Toll free: (800) 241-1754, <http://www.epa.gov/region04/>.  
Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

### REGION 5

Permit Contact (5EP), U.S. Environmental Protection Agency, 77 West Jackson Boulevard, Chicago, IL 60604-3507, Phone: (312) 353-2000, Fax: (312) 353-4135, Toll free within Region 5: (800) 621-8431, <http://www.epa.gov/region5/>.  
Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

### REGION 6

Permit Contact (6AEP), U.S. Environmental Protection Agency, Fountain Place 12th Floor, Suite 1200, 1445 Ross Avenue, Dallas, TX 75202-2733, Phone: (214) 665-2200, Fax: (214) 665-7113, Toll free within Region 6: (800) 087-6063, <http://www.epa.gov/region06/>.  
Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

### REGION 7

Permit Contact, Permits Branch, U.S. Environmental Protection Agency, 901 North 5th Street, Kansas City, KS 66101, Phone: (913) 551-7003, Toll free: (800) 223-0425, <http://www.epa.gov/region07/>.  
Iowa, Kansas, Missouri, and Nebraska.

### REGION 8

Permit Contact (8C-WC), U.S. Environmental Protection Agency, 999 18th Street, Suite 500, Denver, CO 80202-2466, Phone: (303) 312-6312, Fax: (303) 312-6339, Toll free: (800) 227-8917, <http://www.epa.gov/region08/>.  
Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

### REGION 9

Permit Contact, Permits Branch (E-4), U.S. Environmental Protection Agency, 75 Hawthorne Street, San Francisco, CA 94105, Phone: (415) 947-8000, Fax: (415) 947-3553, Toll free within Region 9: (866) EPA-WEST, <http://www.epa.gov/region09/>.  
Arizona, California, Hawaii, Nevada, Guam, American Samoa, and Trust Territories.

### REGION 10

Permit Contact (M/S 521), U.S. Environmental Protection Agency, 1200 Sixth Avenue, Seattle, WA 98101, Phone: (206) 553-1200, Fax: (206) 553-2955, Toll free: (800) 424-4372, <http://www.epa.gov/region10/>.  
Alaska, Idaho, Oregon, and Washington.

### Where to File

The application forms should be mailed to the EPA Regional office whose Region includes the State in which the facility is located (see Table 1).

If the State in which the facility is located administers a Federal permit program under which you need a permit, you should contact the appropriate State agency for the correct forms. Your EPA Regional office (Table 1) can tell you to whom to apply and can provide the appropriate address and phone number.

### When to File

Because of statutory requirements, the deadlines for filing applications vary according to the type of facility you operate and the type of permit you need. These deadlines are as follows:<sup>1</sup>

**Table 2. Filing Dates for Permits**

FORM (permit)	WHEN TO FILE
2A (NPDES) .....	180 days before your present NPDES permit expires.
2B (NPDES) .....	180 days before your present NPDES permit expires <sup>2</sup> , or 180 days prior to startup if you are a new facility.
2C (NPDES) .....	180 days before your present NPDES permit expires <sup>2</sup> .
2D (NPDES) .....	180 days prior to startup.
3 (Hazardous Waste) ...	Existing facility: Six months following publication of regulations listing hazardous wastes. New facility: 180 days before commencing physical construction.
4 (UIC) .....	A reasonable time prior to construction for new wells; as directed by the Director for existing wells.
5 (PSD) .....	Prior to commencement of construction.

<sup>1</sup> Please note that some of these forms are not yet available for use and are listed as "Reserved" at the beginning of these instructions. Contact your EPA Regional office for information on current application requirements and forms.

<sup>2</sup> If your present permit expires on or before November 30, 1980, the filing date is the date on which your permit expires. If your permit expires during the period December 1, 1980–May 31, 1981, the filing date is 90 days before your permit expires.

Federal regulations provide that you may not begin to construct a new source in the NPDES program, a new hazardous waste management facility, a new injection well, or a facility covered by the PSD program before the issuance of a permit under the applicable program. Please note that if you are required to obtain a permit before beginning construction, as described above, you may need to submit your permit application well in advance of an applicable deadline listed in Table 2.

### Fees

The U.S. EPA does not require a fee for applying for any permit under the consolidated permit programs. (However, some States which administer one or more of these programs require fees for the permits which they issue.)

### Availability of Information to Public

Information contained in these application forms will, upon request, be made available to the public for inspection and copying. However, you may request confidential treatment for certain information which you submit on certain supplementary forms. The specific instructions for each supplementary form state what information on the form, if any, may be claimed as confidential and what procedures govern the claim. No information on Forms 1 and 2A through 2D may be claimed as confidential.

### Completion of Forms

Unless otherwise specified in instructions to the forms, each item in each form must be answered. To indicate that each item has been considered, enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to EPA or to an approved State agency which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

### Financial Assistance for Pollution Control

There are a number of direct loans, loan guarantees, and grants available to firms and communities for pollution control expenditures. These are provided by the Small Business Administration, the Economic Development Administration, the Farmers Home Administration, and the Department of Housing and Urban Development. Each EPA Regional office (Table 1) has an economic assistance coordinator who can provide you with additional information.

EPA's construction grants program under Title II of the Clean Water Act is an additional source of assistance to publicly owned treatment works. Contact your EPA Regional office for details.

## SECTION B – FORM 1 LINE BY LINE INSTRUCTIONS

This form must be completed by all applicants.

### Completing This Form

Please type or print in the unshaded areas only. Some items have small graduation marks in the fill-in spaces. These marks indicate the number of characters that may be entered into our data system. The marks are spaced at 1/6" intervals which accommodate elite type (12 characters per inch). If you use another type you may ignore the marks. If you print, place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response.

#### Item I

Space is provided at the upper right hand corner of Form 1 for insertion of your EPA Identification Number. If you have an existing facility, enter your Identification Number. If you don't know your EPA Identification Number, please contact your EPA Regional office (Table 1), which will provide you with your number. If your facility is new (not yet constructed), leave this item blank.

#### Item II

Answer each question to determine which supplementary forms you need to fill out. Be sure to check the glossary in Section D of these instructions for the legal definitions of the **bold faced words**. Check Section C of these instructions to determine whether your activity is excluded from permit requirements.

If you answer "no" to every question, then you do not need a permit, and you do not need to complete and return any of these forms.

If you answer "yes" to any question, then you must complete and file the supplementary form by the deadline listed in Table 2 along with this form. (*The applicable form number follows each question and is enclosed in parentheses.*) You need not submit a supplementary form if you already have a permit under the appropriate Federal program, unless your permit is due to expire and you wish to renew your permit.

Questions (I) and (J) of Item II refer to major new or modified sources subject to Prevention of Significant Deterioration (PSD) requirements under the Clean Air Act. For the purpose of the PSD program, major sources are defined as: (A) Sources listed in Table 3 which have the potential to emit 100 tons or more per year emissions; and (B) All other sources with the potential to emit 250 tons or more per year. See Section C of these instructions for discussion of exclusions of certain modified sources.

**Table 3. 28 Industrial Categories Listed In Section 169(1) of the Clean Air Act of 1977**

Fossil fuel-fired steam generators of more than 250 million BTU per hour heat input;  
Coal cleaning plants (*with thermal dryers*);  
Kraft pulp mills;  
Portland cement plants;  
Primary zinc smelters;  
Iron and steel mill plants;  
Primary aluminum ore reduction plants;  
Primary copper smelters;  
Municipal incinerators capable of charging more than 250 tons of refuse per day;  
Hydrofluoric acid plants;  
Nitric acid plants;  
Sulfuric acid plants;  
Petroleum refineries;  
Lime plants;  
Phosphate rock processing plants;  
Coke oven batteries;  
Sulfur recovery plants;  
Carbon black plants (*furnace process*);  
Primary lead smelters;  
Fuel conversion plants;  
Sintering plants;  
Secondary metal production plants;  
Chemical process plants;  
Fossil fuel boilers (*or combination thereof*) totaling more than 250 million BTU per hour heat input;

#### Table 3 (continued)

Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;  
Taconite ore processing plants;  
Glass fiber processing plants; and  
Charcoal production plants.

#### Item III

Enter the facility's official or legal name. Do not use a colloquial name.

#### Item IV

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary.

#### Item V

Give the complete mailing address of the office where correspondence should be sent. This often is not the address used to designate the location of the facility or activity.

#### Item VI

Give the address or location of the facility identified in Item III of this form. If the facility lacks a street name or route number, give the most accurate alternative geographic information (*e.g., section number or quarter section number from county records or at intersection of Rts. 425 and 22*).

#### Item VII

List, in descending order of significance, the four 4-digit standard industrial classification (SIC) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the discharge, air emissions, or hazardous wastes.

SIC code numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, contact your EPA Regional office (*see Table 1*).

#### Item VIII-A

Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name.

#### Item VIII-B

Indicate whether the entity which operates the facility also owns it by marking the appropriate box.

#### Item VIII-C

Enter the appropriate letter to indicate the legal status of the operator of the facility. Indicate "public" for a facility solely owned by local government(s) such as a city, town, county, parish, etc.

#### Items VIII-D-H

Enter the telephone number and address of the operator identified in Item VIII-A.

#### Item IX

Indicate whether the facility is located on Indian Lands.

#### Item X

Give the number of each presently effective permit issued to the facility for each program or, if you have previously filed an application but have not yet received a permit, give the number of the application, if any. Fill in the unshaded area only. If you have more than one currently effective permit for your facility under a particular permit program, you may list additional permit numbers on a separate sheet of paper. List any relevant environmental Federal (*e.g., permits*

**SECTION B – FORM 1 LINE BY LINE INSTRUCTIONS**

under the Ocean Dumping Act, Section 404 of the Clean Water Act or the Surface Mining Control and Reclamation Act), State (e.g., State permits for new air emission sources in nonattainment areas under Part D of the Clean Air Act or State permits under Section 404 of the Clean Water Act), or local permits or applications under "other."

**Item XI**

Provide a topographic map or maps of the area extending at least to one mile beyond the property boundaries of the facility which clearly show the following:

- The legal boundaries of the facility;
- The location and serial number of each of your existing and proposed intake and discharge structures;
- All hazardous waste management facilities;
- Each well where you inject fluids underground; and
- All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you.

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) map corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude at the nearest whole second. On all maps of rivers, show the direction of the current, and in tidal waters, show the directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey, which may be obtained through the U.S. Geological Survey Offices listed below. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15 minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15 minute series map has been published for your facility site, use a plat map or other appropriate map, including all the requested information; in this case, briefly describe land uses in the map area (e.g., residential, commercial).

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart it was traced from. Include the names of nearby towns, water bodies, and other prominent points. An example of an acceptable location map is shown in Figure 1-1 of these instructions. (NOTE: Figure 1-1 is provided for purposes of illustration only, and does not represent any actual facility.)

U.S.G.S. OFFICES	AREA SERVED
Eastern Mapping Center National Cartographic Information Center U.S.G.S. 536 National Center Reston, VA 22092 Phone No. (703) 860-6336	Ala., Conn., Del., D.C., Fla., Ga., Ind., Ky., Maine, Md., Mass., N.H., N.J., N.Y., N.C., S.C., Ohio, Pa., Puerto Rico, R.I., Tenn., Vt., Va., W. Va., and Virgin Islands
Mid Continent Mapping Center National Cartographic Information Center U.S.G.S. 1400 Independence Road Rolla, MO 65401 Phone No. (314) 341-0851	Ark., Ill., Iowa, Kans., La., Mich., Minn., Miss., Mo., N. Dak., Nebr., Okla., S. Dak., and Wis.
Rocky Mountain Mapping Center National Cartographic Information Center U.S.G.S. Stop 504, Box 25046 Federal Center Denver, CO 80225 Phone No. (303) 234-2326	Alaska, Colo., Mont., N. Mex., Tex., Utah, and Wyo.
Western Mapping Center National Cartographic Information Center U.S.G.S. 345 Middlefield Road Menlo Park, CA 94025 Phone No. (415) 323-8111	Ariz., Calif., Hawaii, Idaho, Nev., Oreg., Wash., American Samoa, Guam, and Trust Territories

**Item XII**

Briefly describe the nature of your business (e.g., products produced or services provided).

**Item XIII**

Federal statutes provide for severe penalties for submitting false information on this application form.

18 U.S.C. Section 1001 provides that "Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes or uses any false writing or document knowing some to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both."

Section 309(c)(2) of the Clean Water Act and Section 113(c)(2) of the Clean Air Act each provide that "Any person who knowingly makes any false statement, representation, or certification in any application, . . . shall upon conviction, be punished by a fine of no more than \$10,000 or by imprisonment for not more than six months, or both."

In addition, Section 3008(d)(3) of the Resource Conservation and Recovery Act provides for a fine up to \$25,000 per day or imprisonment up to one year, or both, for a first conviction for making a false statement in any application under the Act, and for double these penalties upon subsequent convictions.

FEDERAL REGULATIONS REQUIRE THIS APPLICATION TO BE SIGNED AS FOLLOWS:

- A. For a corporation, by a principal executive officer of at least the level of vice president. However, if the only activity in Item II which is marked "yes" is Question G, the officer may authorize a person having responsibility for the overall operations of the well or well field to sign the certification. In that case, the authorization must be written and submitted to the permitting authority.
- B. For partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- C. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

## SECTION C – ACTIVITIES WHICH DO NOT REQUIRE PERMITS

**1. National Pollutant Discharge Elimination System Permits Under the Clean Water Act.** You are not required to obtain an NPDES permit if your discharge is in one of the following categories, as provided by the Clean Water Act (CWA) and by the NPDES regulations (40 CFR Parts 122-125). However, under Section 510 of CWA a discharge exempted from the federal NPDES requirements may still be regulated by a State authority; contact your State environmental agency to determine whether you need a State permit.

**A. DISCHARGES FROM VESSELS.** Discharges of sewage from vessels, effluent from properly functioning marine engines, laundry, shower, and galley sink wastes, and any other discharge incidental to the normal operation of a vessel do not require NPDES permits. However, discharges of rubbish, trash, garbage, or other such materials discharged overboard require permits, and so do other discharges when the vessel is operating in a capacity other than as a means of transportation, such as when the vessel is being used as an energy or mining facility, a storage facility, or a seafood processing facility, or is secured to the bed of the ocean, contiguous zone, or waters of the United States for the purpose of mineral or oil exploration or development.

**B. DREDGED OR FILL MATERIAL.** Discharges of dredged or fill material into waters of the United States do not need NPDES permits if the dredging or filling is authorized by a permit issued by the U.S. Army Corps of Engineers or an EPA approved State under Section 404 of CWA.

**C. DISCHARGES INTO PUBLICLY OWNED TREATMENT WORKS (POTW).** The introduction of sewage, industrial wastes, or other pollutants into a POTW does not need an NPDES permit. You must comply with all applicable pretreatment standards promulgated under Section 307(b) of CWA, which may be included in the permit issued to the POTW. If you have a plan or an agreement to switch to a POTW in the future, this does not relieve you of the obligation to apply for and receive an NPDES permit until you have stopped discharging pollutants into waters of the United States.

*(NOTE: Dischargers into privately owned treatment works do not have to apply for or obtain NPDES permits except as otherwise required by the EPA Regional Administrator. The owner or operator of the treatment works itself, however, must apply for a permit and identify all users in its application. Users so identified will receive public notice of actions taken on the permit for the treatment works.)*

**D. DISCHARGES FROM AGRICULTURAL AND SILVICULTURAL ACTIVITIES.** Most discharges from agricultural and silvicultural activities to waters of the United States do not require NPDES permits. These include runoff from orchards, cultivated crops, pastures, range lands, and forest lands. However, the discharges listed below do require NPDES permits. Definitions of the terms listed below are contained in the Glossary section of these instructions.

1. Discharges from Concentrated Animal Feeding Operations. (See Glossary for definitions of "animal feeding operations" and "concentrated animal feeding operations." Only the latter require permits.)

2. Discharges from Concentrated Aquatic Animal Production Facilities. (See Glossary for size cutoffs.)

3. Discharges associated with approved Aquaculture Projects.

4. Discharges from Silvicultural Point Sources. (See Glossary for the definition of "silvicultural point source.") Nonpoint source silvicultural activities are excluded from NPDES permit requirements. However, some of these activities, such as stream crossings for roads, may involve point source discharges of dredged or fill material which may require a Section 404 permit. See 33 CFR 209.120.

**E. DISCHARGES IN COMPLIANCE WITH AN ON-SCENE COORDINATOR'S INSTRUCTIONS.**

**II. Hazardous Waste Permits Under the Resource Conservation and Recovery Act.** You may be excluded from the requirement to obtain a permit under this program if you fall into one of the following categories:

Generators who accumulate their own hazardous waste on-site for less than 90 days as provided in 40 CFR 262.34;

Farmers who dispose of hazardous waste pesticide from their own use as provided in 40 CFR 262.51;

Certain persons treating, storing, or disposing of small quantities of hazardous waste as provided in 40 CFR 261.4 or 261.5; and

Owners and operators of totally enclosed treatment facilities as defined in 40 CFR 260.10.

Check with your Regional office for details. Please note that even if you are excluded from permit requirements, you may be required by Federal regulations to handle your waste in a particular manner.

**III. Underground Injection Control Permits Under the Safe Drinking Water Act.** You are not required to obtain a permit under this program if you:

Inject into existing wells used to enhance recovery of oil and gas or to store hydrocarbons (*note, however, that these underground injections are regulated by Federal rules*); or

Inject into or above a stratum which contains, within 1/4 mile of the well bore, an underground source of drinking water (*unless your injection is the type identified in Item II-H, for which you do need a permit*). However, you must notify EPA of your injection and submit certain required information on forms supplied by the Agency, and your operation may be phased out if you are a generator of hazardous wastes or a hazardous waste management facility which uses wells or septic tanks to dispose of hazardous waste.

**IV. Prevention of Significant Deterioration Permits Under the Clean Air Act.** The PSD program applies to newly constructed or modified facilities (*both of which are referred to as "new sources"*) which increase air emissions. The Clean Air Act Amendments of 1977 exclude small new sources of air emissions from the PSD review program. Any new source in an industrial category listed in Table 3 of these instructions whose potential to emit is less than 100 tons per year is not required to get a PSD permit. In addition, any new source in an industrial category not listed in Table 3 whose potential to emit is less than 250 tons per year is exempted from the PSD requirements.

Modified sources which increase their net emissions (*the difference between the total emission increases and total emission decreases at the source*) less than the significant amount set forth in EPA regulations are also exempt from PSD requirements. Contact your EPA Regional office (*Table 1*) for further information.

## SECTION D – GLOSSARY

NOTE: This Glossary includes terms used in the instructions and in Forms 1, 2B, 2C, and 3. Additional terms will be included in the future when other forms are developed to reflect the requirements of other parts of the Consolidated Permits Program. If you have any questions concerning the meaning of any of these terms, please contact your EPA Regional office (*Table 1*)

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

**ANIMAL FEEDING OPERATION** means a lot or facility (*other than an aquatic animal production facility*) where the following conditions are met;

A. Animals (*other than aquatic animals*) have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period; and

B. Crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

Two or more animal feeding operations under common ownership are a single animal feeding operation if they adjoin each other or if they use a common area or system for the disposal of wastes.

**ANIMAL UNIT** means a unit of measurement for any animal feeding operation calculated by adding the following numbers: The number of slaughter and feeder cattle multiplied by 1.0; Plus the number of mature dairy cattle multiplied by 1.4; Plus the number of swine weighing over 25 kilograms (*approximately 55 pounds*) multiplied by 0.4; Plus the number of sheep multiplied by 0.1; Plus the number of horses multiplied by 2.0.

**APPLICATION** means the EPA standard national forms for applying for a permit, including any additions, revisions, or modifications to the forms; or forms approved by EPA for use in approved States, including any approved modifications or revisions. For RCRA, "application" also means "Application, Part B."

**APPLICATION, PART A** means that part of the Consolidated Permit Application forms which a RCRA permit applicant must complete to qualify for Interim status under Section 3005(e) of RCRA and for consideration for a permit. Part A consists of Form 1 (*General Information*) and Form 3 (*Hazardous Waste Application Form*).

**APPLICATION, PART B** means that part of the application which a RCRA permit applicant must complete to be issued a permit. (*NOTE: EPA is not developing a specific form for Part B of the permit application, but an instruction booklet explaining what Information must be supplied is available from the EPA Regional office.*)

**APPROVED PROGRAM** or **APPROVED STATE** means a State program which has been approved or authorized by EPA under 40 CFR Part 123.

**AQUACULTURE PROJECT** means a defined managed water area which uses discharges of pollutants into that designated area for the maintenance or production of harvestable freshwater, estuarine, or marine plants or animals. "Designated area" means the portions of the waters of the United States within which the applicant plans to confine the cultivated species, using a method of plan or operation (*including, but not limited to, physical confinement*) which, on the basis of reliable scientific evidence, is expected to ensure the specific individual organisms comprising an aquaculture crop will enjoy increased growth attributable to the discharge of pollutants and be harvested within a defined geographic area.

**AQUIFER** means a geological formation, group of formations, or part of a formation that is capable of yielding a significant amount of water to a well or spring.

**AREA OF REVIEW** means the area surrounding an injection which is described according to the criteria set forth in 40 CFR Section 146.06.

**AREA PERMIT** means a UIC permit applicable to all or certain wells within a geographic area, rather than to a specified well, under 40 CFR Section 122.37.

**ATTAINMENT AREA** means, for any air pollutant, an area which has been designated under Section 107 of the Clean Air Act as having ambient air quality levels better than any national primary or secondary ambient air quality standard for that pollutant. Standards have

been set for sulfur oxides, particulate matter, nitrogen dioxide, carbon monoxide, ozone, lead, and hydrocarbons. For purposes of the Glossary, "attainment area" also refers to "unclassifiable area," which means, for any pollutants, an area designated under Section 107 as unclassifiable with respect to that pollutant due to insufficient information.

**BEST MANAGEMENT PRACTICES (BMP)** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMP's include treatment requirements, operation procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**BIOLOGICAL MONITORING TEST** means any test which includes the use of aquatic algal, invertebrate, or vertebrate species to measure acute or chronic toxicity, and any biological or chemical measure of bioaccumulation.

**BYPASS** means the intentional diversion of wastes from any portion of a treatment facility.

**CONCENTRATED ANIMAL FEEDING OPERATION** means an animal feeding operation which meets the criteria set forth in either (A) or (B) below or which the Director designates as such on a case-by-case basis:

A. More than the numbers of animals specified in any of the following categories are confined:

1. 1,000 slaughter or feeder cattle,
2. 700 mature dairy cattle (*whether milked or dry cows*),
3. 2,500 swine each weighing over 25 kilograms (*approximately 55 pounds*),
4. 500 horses,
5. 10,000 sheep or lambs,
6. 55,000 turkeys,
7. 100,000 laying hens or broilers (*if the facility has a continuous overflow watering*),
8. 30,000 laying hens or broilers (*if the facility has a liquid manure handling system*),
9. 5,000 ducks, or
10. 1,000 animal units; or

B. More than the following numbers and types of animals are confined:

1. 300 slaughter or feeder cattle,
2. 200 mature dairy cattle (*whether milked or dry cows*),
3. 750 swine each weighing over 25 kilograms (*approximately 55 pounds*),
4. 150 horses,
5. 3,000 sheep or lambs,
6. 16,500 turkeys,
7. 30,000 laying hens or broilers (*if the facility has continuous overflow watering*),
8. 9,000 laying hens or broilers (*if the facility has a liquid manure handling system*),
9. 1,500 ducks, or
10. 300 animal units; AND

## SECTION D – GLOSSARY

Either one of the following conditions are met: Pollutants are discharged into waters of the United States through a manmade ditch, flushing system or other similar manmade device (*"man-made"* means constructed by man and used for the purpose of transporting wastes); or Pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.

Provided, however, that no animal feeding operation is a concentrated animal feeding operation as defined above if such animal feeding operation discharges only in the event of a 25 year, 24 hour storm event.

**CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY** means a hatchery, fish farm, or other facility which contains, grows or holds aquatic animals in either of the following categories, or which the Director designates as such on a case-by-case basis:

A. Cold water fish species or other cold water aquatic animals including, but not limited to, the Salmonidae family of fish (e.g., *trout and salmon*) in ponds, raceways or other similar structures which discharge at least 30 days per year but does not include:

1. Facilities which produce less than 9,090 harvest weight kilograms (*approximately 20,000 pounds*) of aquatic animals per year; and
2. Facilities which feed less than 2,272 kilograms (*approximately 5,000 pounds*) of food during the calendar month of maximum feeding.

B. Warm water fish species or other warm water aquatic animals including, but not limited to, the Ameiuridae, Cetrarchidae, and Cyprinidae families of fish (e.g., *respectively, catfish, sunfish, and minnows*) in ponds, raceways, or other similar structures which discharge at least 30 days per year, but does not include;

1. Closed ponds which discharge only during periods of excess runoff; or
2. Facilities which produce less than 45,454 harvest weight kilograms (*approximately 100,000 pounds*) of aquatic animals per year.

**CONTACT COOLING WATER** means water used to reduce temperature which comes into contact with a raw material, intermediate product, waste product other than heat, or finished product.

**CONTAINER** means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

**CONTIGUOUS ZONE** means the entire zone established by the United States under article 24 of the convention of the Territorial Sea and the Contiguous Zone.

**CWA** means the Clean Water Act (*formerly referred to the Federal Water Pollution Control Act*) Pub. L. 92-500, as amended by Pub. L. 95-217 and Pub. L. 95-576, 33 U.S.C. 1251 *et seq.*

**DIKE** means any embankment or ridge of either natural or manmade materials used to prevent the movement of liquids, sludges, solids, or other materials.

**DIRECT DISCHARGE** means the discharge of a pollutant as defined below.

**DIRECTOR** means the EPA Regional Administrator or the State Director as the context requires.

**DISCHARGE (OF A POLLUTANT)** means:

- A. Any addition of any pollutant or combination of pollutants to waters of the United States from any point source; or
- B. Any addition of any pollutant or combination of pollutants to the waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation.

This definition includes discharges into waters of the United States from: Surface runoff which is collected or channelled by man; Discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to POTWs;

and Discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any indirect discharger.

**DISPOSAL (in the RCRA program)** means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any hazardous waste into or on any land or water so that the hazardous waste or any constituent of it may enter the environment or be emitted into the air or discharged into any waters, including ground water.

**DISPOSAL FACILITY** means a facility or part of a facility at which hazardous waste is intentionally placed into or on land or water, and at which hazardous waste will remain after closure.

**EFFLUENT LIMITATION** means any restriction imposed by the Director on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

**EFFLUENT LIMITATION GUIDELINE** means a regulation published by the Administrator under Section 304(b) of the Clean Water Act to adopt or revise effluent limitations.

**ENVIRONMENTAL PROTECTION AGENCY (EPA)** means the United States Environmental Protection Agency.

**EPA IDENTIFICATION NUMBER** means the number assigned by EPA to each generator, transporter, and facility.

**EXEMPTED AQUIFER** means an aquifer or its portion that meets the criteria in the definition of USDW, but which has been exempted according to the procedures in 40 CFR Section 122.35(b).

**EXISTING HWM FACILITY** means a Hazardous Waste Management facility which was in operation, or for which construction had commenced, on or before October 21, 1976. Construction had commenced if (A) the owner or operator had obtained all necessary Federal, State, and local preconstruction approvals or permits, and either (B1) a continuous on-site, physical construction program had begun, or (B2) the owner or operator had entered into contractual obligations, which could not be cancelled or modified without substantial loss, for construction of the facility to be completed within a reasonable time.

(NOTE: This definition reflects the literal language of the statute. However, EPA believes that amendments to RCRA now in conference will shortly be enacted and will change the date for determining when a facility is an "existing facility" to one no earlier than May of 1980; indications are the conferees are considering October 30, 1980. Accordingly, EPA encourages every owner or operator of a facility which was built or under construction as of the promulgation date of the RCRA program regulations to file Part A of its permit application so that it can be quickly processed for interim status when the change in the law takes effect. When those amendments are enacted, EPA will amend this definition.)

**EXISTING SOURCE** or **EXISTING DISCHARGER (in the NPDES program)** means any source which is not a new source or a new discharger.

**EXISTING INJECTION WELL** means an injection well other than a new injection well.

**FACILITY** means any HWM facility, UIC underground injection well, NPDES point source, PSD stationary source, or any other facility or activity (*including land or appurtenances thereto*) that is subject to regulation under the RCRA, UIC, NPDES, or PSD programs.

**FLUID** means material or substance which flows or moves whether in a semisolid, liquid, sludge, gas, or any other form or state.

**GENERATOR** means any person by site, whose act or process produces hazardous waste identified or listed in 40 CFR Part 261.

**GROUNDWATER** means water below the land surface in a zone of saturation.

**HAZARDOUS SUBSTANCE** means any of the substances designated under 40 CFR Part 116 pursuant to Section 311 of CWA. (NOTE: These substances are listed in Table 2c-4 of the instructions to Form 2C.)

## SECTION D – GLOSSARY

**HAZARDOUS WASTE** means a hazardous waste as defined in 40 CFR Section 261.3 published May 19, 1980.

**HAZARDOUS WASTE MANAGEMENT FACILITY (HWM facility)** means all contiguous land, structures, appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous wastes. A facility may consist of several treatment, storage, or disposal operational units (for example, one or more landfills, surface impoundments, or combinations of them).

**IN OPERATION** means a facility which is treating, storing, or disposing of hazardous waste.

**INCINERATOR (in the RCRA program)** means an enclosed device using controlled flame combustion, the primary purpose of which is to thermally break down hazardous waste. Examples of incinerators are rotary kiln, fluidized bed, and liquid injection incinerators.

**INDIRECT DISCHARGER** means a nondomestic discharger introducing pollutants to a publicly owned treatment works.

**INJECTION WELL** means a well into which fluids are being injected.

**INTERIM AUTHORIZATION** means approval by EPA of a State hazardous waste program which has met the requirements of Section 3006(c) of RCRA and applicable requirements of 40 CFR Part 123, Subparts A, B, and F.

**LANDFILL** means a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a land treatment facility, a surface impoundment, or an injection well.

**LAND TREATMENT FACILITY (in the RCRA program)** means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

**LISTED STATE** means a State listed by the Administrator under Section 1422 of SDWA as needing a State UIC program.

**MGD** means millions of gallons per day.

**MUNICIPALITY** means a city, village, town, borough, county, parish, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of CWA.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)** means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring, and enforcing permits and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of CWA. The term includes an approved program.

**NEW DISCHARGER** means any building, structure, facility, or installation: (A) From which there is or may be a new or additional discharge of pollutants at a site at which on October 18, 1972, it had never discharged pollutants; (B) Which has never received a finally effective NPDES permit for discharges at that site; and (C) Which is not a "new source." This definition includes an indirect discharger which commences discharging into waters of the United States. It also includes any existing mobile point source, such as an offshore oil drilling rig, seafood processing vessel, or aggregate plant that begins discharging at a location for which it does not have an existing permit.

**NEW HWM FACILITY** means a Hazardous Waste Management facility which began operation or for which construction commenced after October 21, 1976.

**NEW INJECTION WELL** means a well which begins injection after a UIC program for the State in which the well is located is approved.

**NEW SOURCE (in the NPDES program)** means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

A. After promulgation of standards of performance under Section 306 of CWA which are applicable to such source; or

B. After proposal of standards of performance in accordance with Section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.

**NON-CONTACT COOLING WATER** means water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

**OFF-SITE** means any site which is not "on-site".

**ON-SITE** means on the same or geographically contiguous property which may be divided by public or private right(s)-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along, the right(s)-of-way. Non-contiguous properties owned by the same person, but connected by a right-of-way which the person controls and to which the public does not have access, is also considered on-site property.

**OPEN BURNING** means the combustion of any material without the following characteristics:

A. Control of combustion air to maintain adequate temperature for efficient combustion;

B. Containment of the combustion-reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion; and

C. Control of emission of the gaseous combustion products.

(See also "incinerator" and "thermal treatment").

**OPERATOR** means the person responsible for the overall operation of a facility.

**OUTFALL** means a point source.

**OWNER** means the person who owns a facility or part of a facility.

**PERMIT** means an authorization, license, or equivalent control document issued by EPA or an approved State to implement the requirements of 40 CFR Parts 122, 123, and 124.

**PHYSICAL CONSTRUCTION (in the RCRA program)** means excavation, movement of earth, erection of forms or structures, or similar activity to prepare a HWM facility to accept hazardous waste.

**PILE** means any noncontainerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage.

**POINT SOURCE** means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

**POLLUTANT** means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended [42 U.S.C. Section 2011 et seq.]), heat, wrecked or discarded equipment, rocks, sand, cellar dirt and Industrial, municipal, and agriculture waste discharged into water. It does not mean:

A. Sewage from vessels; or

B. Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

(NOTE: Radioactive materials covered by the Atomic Energy Act are those encompassed in its definition of source, byproduct, or special nuclear materials. Examples of materials not covered include radium and accelerator produced isotopes. See *Train v. Colorado Public Interest Research Group, Inc.*, 426 U.S. 1 [1976].)

## SECTION D – GLOSSARY

PREVENTION OF SIGNIFICANT DETERIORATION (PSD) means the national permitting program under 40 CFR 52.21 to prevent emissions of certain pollutants regulated under the Clean Air Act from significantly deteriorating air quality in attainment areas.

PRIMARY INDUSTRY CATEGORY means any industry category listed in the NRDC Settlement Agreement (*Natural Resources Defense Council v. Train*, 8 ERC 2120 [D.D.C. 1976], modified 12 ERC 1833 [D.D.C. 1979]).

PRIVATELY OWNED TREATMENT WORKS means any device or system which is: (A) Used to treat wastes from any facility whose operator is not the operator of the treatment works; and (B) Not a POTW.

PROCESS WASTEWATER means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

PUBLICLY OWNED TREATMENT WORKS or POTW means any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of a liquid nature which is owned by a State or municipality. This definition includes any sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

RENT means use of another's property in return for regular payment.

RCRA means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 (*Pub. L. 94-580, as amended by Pub. L. 95-609, 42 U.S.C. Section 6901 et seq.*).

ROCK CRUSHING AND GRAVEL WASHING FACILITIES are facilities which process crushed and broken stone, gravel, and riprap (see 40 CFR Part 436, Subpart B, and the effluent limitations guidelines for these facilities).

SDWA means the Safe Drinking Water Act (*Pub. L. 95-523, as amended by Pub. L. 95-1900, 42 U.S.C. Section 300ff et seq.*).

SECONDARY INDUSTRY CATEGORY means any industry category which is not a primary industry category.

SEWAGE FROM VESSELS means human body wastes and the wastes from toilets and other receptacles intended to receive or retain body wastes that are discharged from vessels and regulated under Section 312 of CWA, except that with respect to commercial vessels on the Great Lakes this term includes graywater. For the purposes of this definition, "graywater" means galley, bath, and shower water.

SEWAGE SLUDGE means the solids, residues, and precipitate separated from or created in sewage by the unit processes of a POTW. "Sewage" as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff, that are discharged to or otherwise enter a publicly owned treatment works.

SILVICULTURAL POINT SOURCE means any discernable, confined, and discrete conveyance related to rock crushing, gravel washing, log sorting, or log storage facilities which are operated in connection with silvicultural activities and from which pollutants are discharged into waters of the United States. This term does not include nonpoint source silvicultural activities such as nursery operations, site preparation, reforestation and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance from which there is natural runoff. However, some of these activities (such as stream crossing for roads) may involve point source discharges of dredged or fill material which may require a CWA Section 404 permit. "Log sorting and log storage facilities" are facilities whose discharges result from the holding of unprocessed wood, e.g., logs or roundwood with bark or after removal of bark in self-contained bodies of water (*mill ponds or log ponds*) or stored on land where water is applied intentionally on the logs (*wet decking*). (See 40 CFR Part 429, Subpart J, and the effluent limitations guidelines for these facilities.)

STATE means any of the 50 States, the District of Columbia, Guam, the Commonwealth of Puerto Rico, the Virgin Islands, American Samoa, the Trust Territory of the Pacific Islands (except in the case

of RCRA), and the Commonwealth of the Northern Mariana Islands (except in the case of CWA).

STATIONARY SOURCE (in the PSD program) means any building, structure, facility, or installation which emits or may emit any air pollutant regulated under the Clean Air Act. "Building, structure, facility, or installation" means any grouping of pollutant-emitting activities which are located on one or more contiguous or adjacent properties and which are owned or operated by the same person (or by persons under common control).

STORAGE (in the RCRA program) means the holding of hazardous waste for a temporary period at the end of which the hazardous waste is treated, disposed, or stored elsewhere.

STORM WATER RUNOFF means water discharged as a result of rain, snow, or other precipitation.

SURFACE IMPOUNDMENT or IMPOUNDMENT means a facility or part of a facility which is a natural topographic depression, manmade excavation, or diked area formed primarily of earthen materials (although it may be lined with manmade materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

TANK (in the RCRA program) means a stationary device, designed to contain an accumulation of hazardous waste which is constructed primarily of non-earthen materials (e.g., wood, concrete, steel, plastic) which provide structural support.

THERMAL TREATMENT (in the RCRA program) means the treatment of hazardous waste in a device which uses elevated temperature as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. (See also "incinerator" and "open burning").

TOTALLY ENCLOSED TREATMENT FACILITY (in the RCRA program) means a facility for the treatment of hazardous waste which is directly connected to an industrial production process and which is constructed and operated in a manner which prevents the release of any hazardous waste or any constituent thereof into the environment during treatment. An example is a pipe in which waste acid is neutralized.

TOXIC POLLUTANT means any pollutant listed as toxic under Section 307(a)(1) of CWA.

TRANSPORTER (in the RCRA program) means a person engaged in the off-site transportation of hazardous waste by air, rail, highway, or water.

TREATMENT (in the RCRA program) means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

UNDERGROUND INJECTION means well injection.

UNDERGROUND SOURCE OF DRINKING WATER or USDW means an aquifer or its portion which is not an exempted aquifer and:

- A. Which supplies drinking water for human consumption; or
- B. In which the ground water contains fewer than 10,000 mg/l total dissolved solids.

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.

## SECTION D – GLOSSARY

WATERS OF THE UNITED STATES means:

- A. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- B. All interstate waters, including interstate wetlands;
- C. All other waters such as intrastate lakes, rivers, streams (*including intermittent streams*), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, and natural ponds, the use, degradation, or destruction of which would or could affect interstate or foreign commerce including any such waters:
  - 1. Which are or could be used by interstate or foreign travelers for recreational or other purposes,
  - 2. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce,
  - 3. Which are used or could be used for industrial purposes by industries in interstate commerce;
- D. All impoundments of waters otherwise defined as waters of the United States under this definition;
- E. Tributaries of waters identified in paragraphs (A) – (D) above;
- F. The territorial sea; and
- G. Wetlands adjacent to waters (*other than waters that are themselves wetlands*) identified in paragraphs (A) – (F) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet requirement of CWA (*other than cooling ponds as defined in 40 CFR Section 423.11(m) which also meet the criteria of this definition*) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (*such as a disposal area in wetlands*) nor resulted from the impoundments of waters of the United States.

WELL INJECTION or UNDERGROUND INJECTION means the subsurface emplacement of fluids through a bored, drilled, or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension.

WETLANDS means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

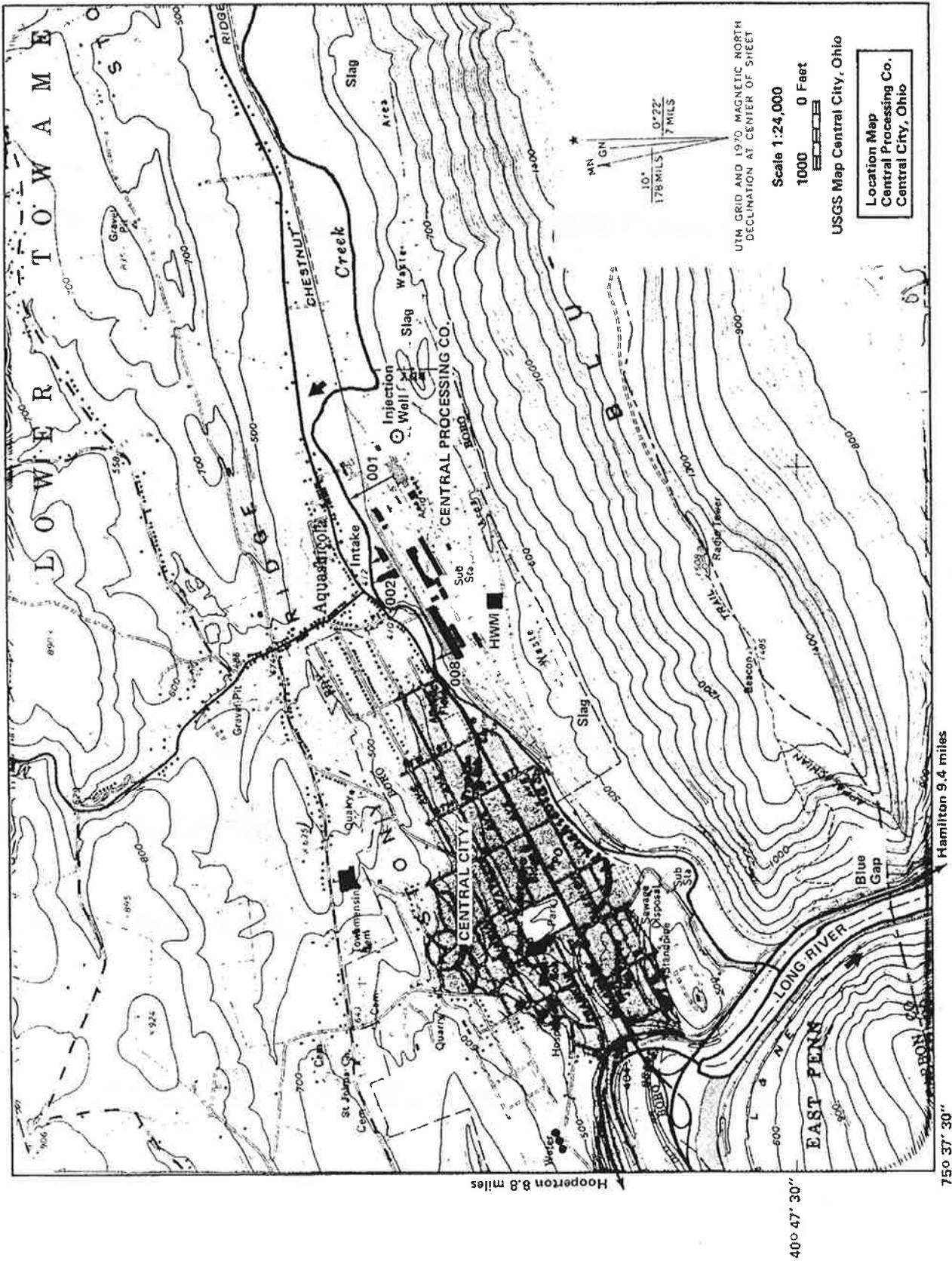


FIGURE 1-1

FORM <b>1</b> GENERAL	U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%; text-align: center;">S</td> <td style="width:85%;"></td> <td style="width:5%; text-align: center;">T/A</td> <td style="width:5%; text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">F</td> <td></td> <td></td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">13</td> <td style="text-align: center;">14</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">15</td> <td></td> </tr> </table>	S		T/A	C	F			D	1	2	13	14			15	
S		T/A	C															
F			D															
1	2	13	14															
		15																
LABEL ITEMS	PLEASE PLACE LABEL IN THIS SPACE	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.																
I. EPA I.D. NUMBER																		
III. FACILITY NAME																		
V. FACILITY MAILING ADDRESS																		
VI. FACILITY LOCATION																		

**II. POLLUTANT CHARACTERISTICS**

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a <b>publicly owned treatment works</b> which results in a <b>discharge to waters of the U.S.</b> ? (FORM 2A)	X		X	B. Does or will this facility (either existing or proposed) include a <b>concentrated animal feeding operation</b> or <b>aquatic animal production facility</b> which results in a <b>discharge to waters of the U.S.</b> ? (FORM 2B)		X	
C. Is this a facility which currently results in <b>discharges to waters of the U.S.</b> other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a <b>discharge to waters of the U.S.</b> ? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of <b>hazardous wastes</b> ? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, <b>underground sources of drinking water</b> ? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed <b>stationary source</b> which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed <b>stationary source</b> which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

**III. NAME OF FACILITY**

c	1	SKIP	City of Rehoboth Beach Wastewater Treatment Plant
	16	20	30

**IV. FACILITY CONTACT**

A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)	
c	2	Stenger, Robert, Plant Operator	(302) 227-7979
	16	45	55

**V. FACILITY MAILING ADDRESS**

A. STREET OR P.O. BOX		
c	3	229 Rehoboth Ave.
	16	45

B. CITY OR TOWN		C. STATE	D. ZIP CODE
c	4	Rehoboth Beach	DE
	16	40	47
			51

**VI. FACILITY LOCATION**

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER		
c	5	Bay Road
	16	45

B. COUNTY NAME		
c	6	Sussex County
	16	45

C. CITY OR TOWN		D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
c	6	Rehoboth Beach	DE	19971
	16	40	47	51
			52	54

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
C	7 4952 (specify) collection and disposal of wastes conducted through a sewer system, including treatment processes.	C	7 (specify)
15	16 - 19	15	16 - 19
C. THIRD		D. FOURTH	
C	7 (specify)	C	7 (specify)
15	16 - 19	15	16 - 19

VIII. OPERATOR INFORMATION	
A. NAME	
C	8 City of Rehoboth Beach
15	16
B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)		D. PHONE (area code & no.)	
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	C	A (302) 227-7979
	M (specify)	15	16 - 18 19 - 21 22 - 26

E. STREET OR P.O. BOX	
229 Rehoboth Ave.	
26	55

F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
C	B Rehoboth Beach	DE	19971	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
15	16	40	41 - 42 47 - 51	52

X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
C	T I	C	T I
9	N DE0020028	9	P
15	16 17 18	30	15 16 17 18
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
C	T I	C	T I
9	U	9	
15	16 17 18	30	15 16 17 18
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
C	T I	C	T I
9	R	9	
15	16 17 18	30	15 16 17 18

XI. MAP  
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)  
Treatment of municipal wastewater pumped from the City of Rehoboth Sewer Collection System.

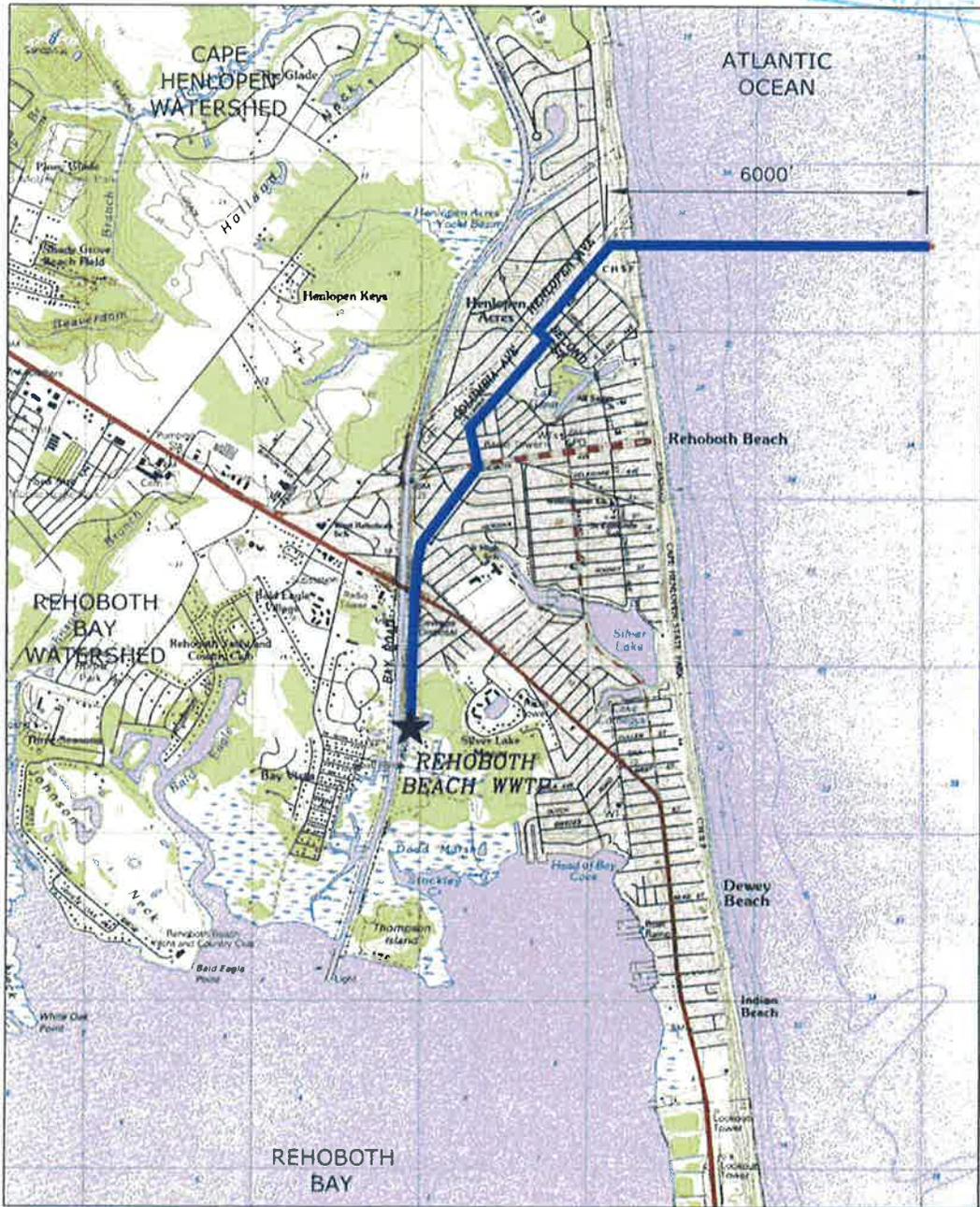
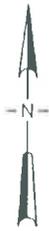
XIII. CERTIFICATION (see instructions)  
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
--	--------------	----------------

COMMENTS FOR OFFICIAL USE ONLY	
C	
15	16



RECORDED  
SEP 29 2018  
SURFACE WATER



SCALE: 1" = 3000' - 0"

**KEY**

 PROPOSED 24" PIPELINE

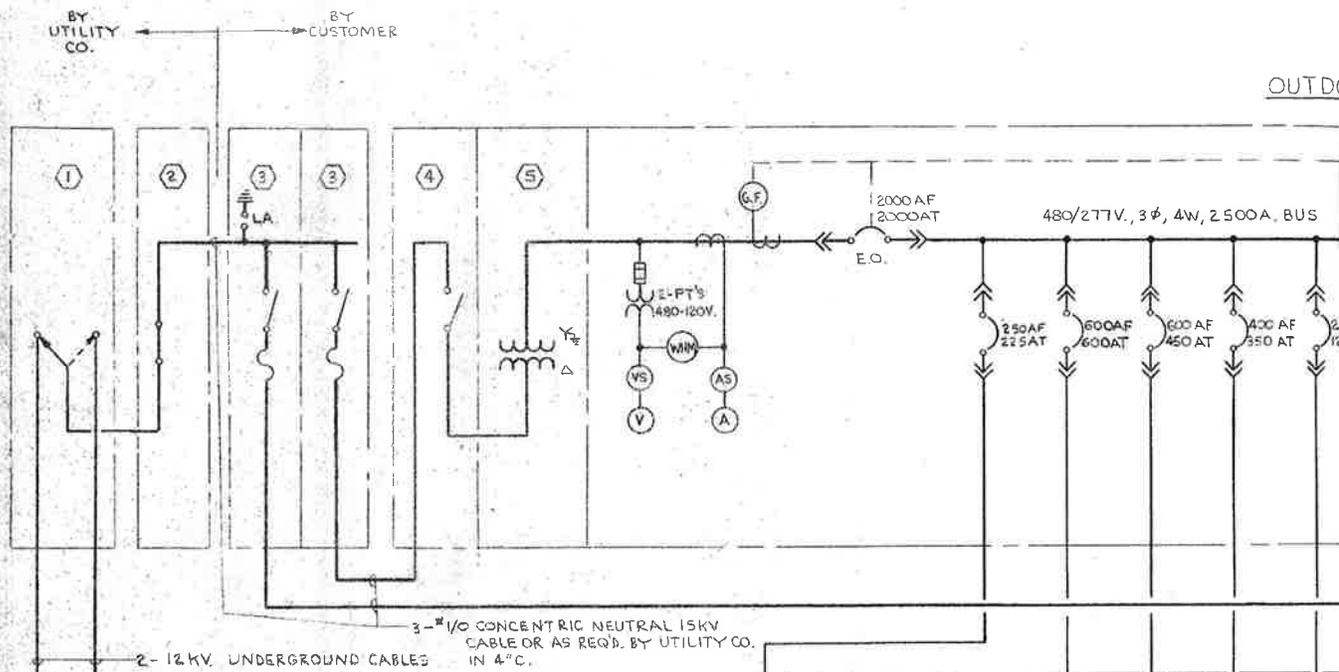


CUENTS | PEOPLE | PERFORMANCE

**CITY OF REHOBOTH BEACH, DELEWARE  
NPDES PERMIT APPLICATION**

**TOPOGRAPHICAL MAP**





- BY UTILITY CO.
- ① - 3WAY AUTOMATIC SWITCHGEAR
  - ② - PRIMARY METERING
  - ③ - LOAD BREAK SWITCH
  - ④ - NON FUSED LOAD BREAK SWITCH
  - ⑤ - 1500KVA TRANSFORMER 12KV - 480/277V.

MCC B1  
480/277V - 120/208V  
3φ, 4W

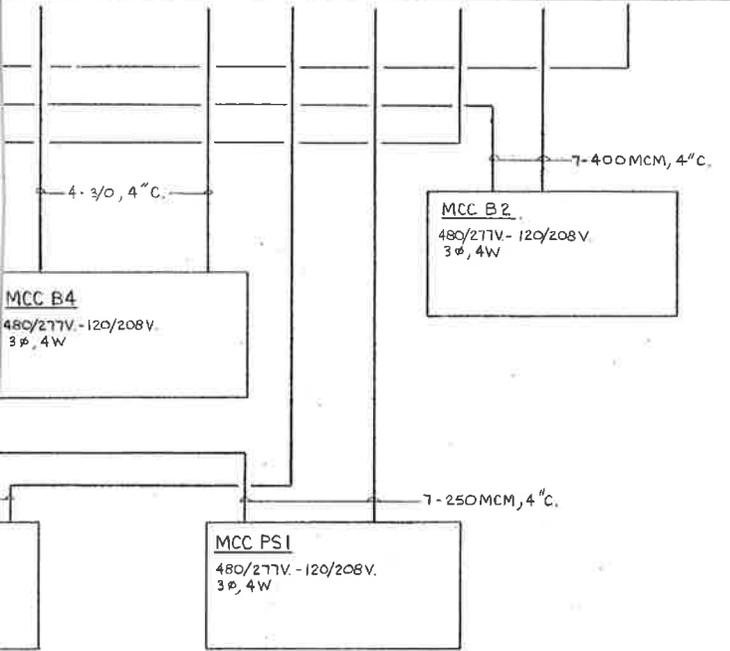
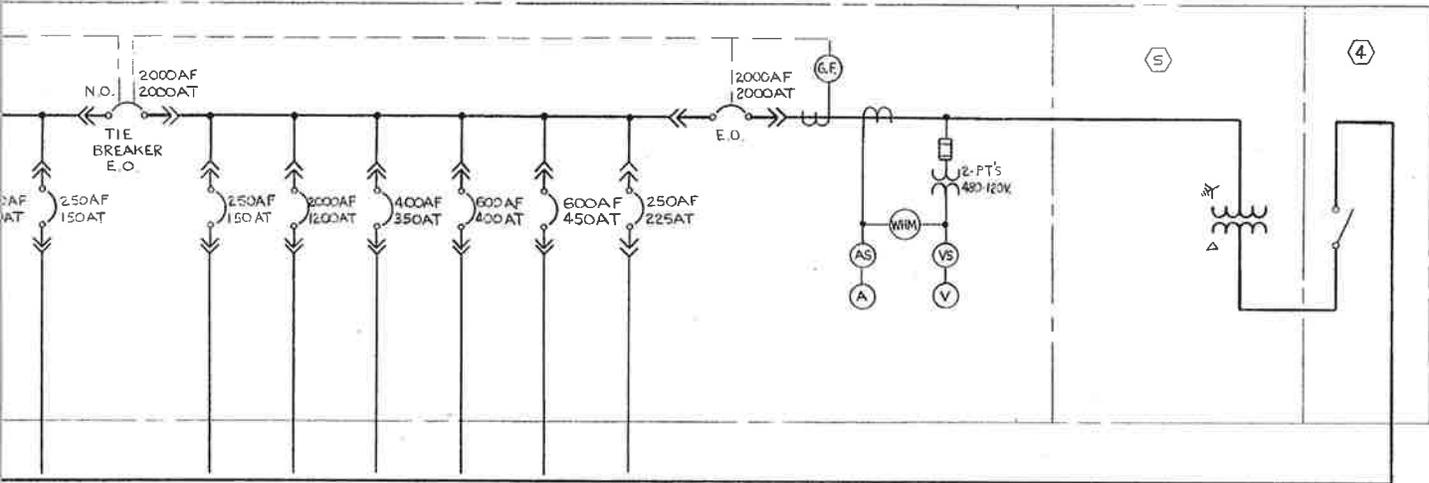
MCC T1/B5  
480/277V - 120/208V.  
3φ, 4W

MCC B3  
480/277V - 120/208V  
3φ, 4W

NO	REVISIONS	DATE	ENGR.	DATE	ISSUED FOR



DR WALK-IN SUBSTATION



h-Inc.  
 lists  
 Mobile, Alabama  
 Montgomery, Alabama  
 Panama City, Florida  
 Biloxi, Mississippi  
 Albany, Georgia

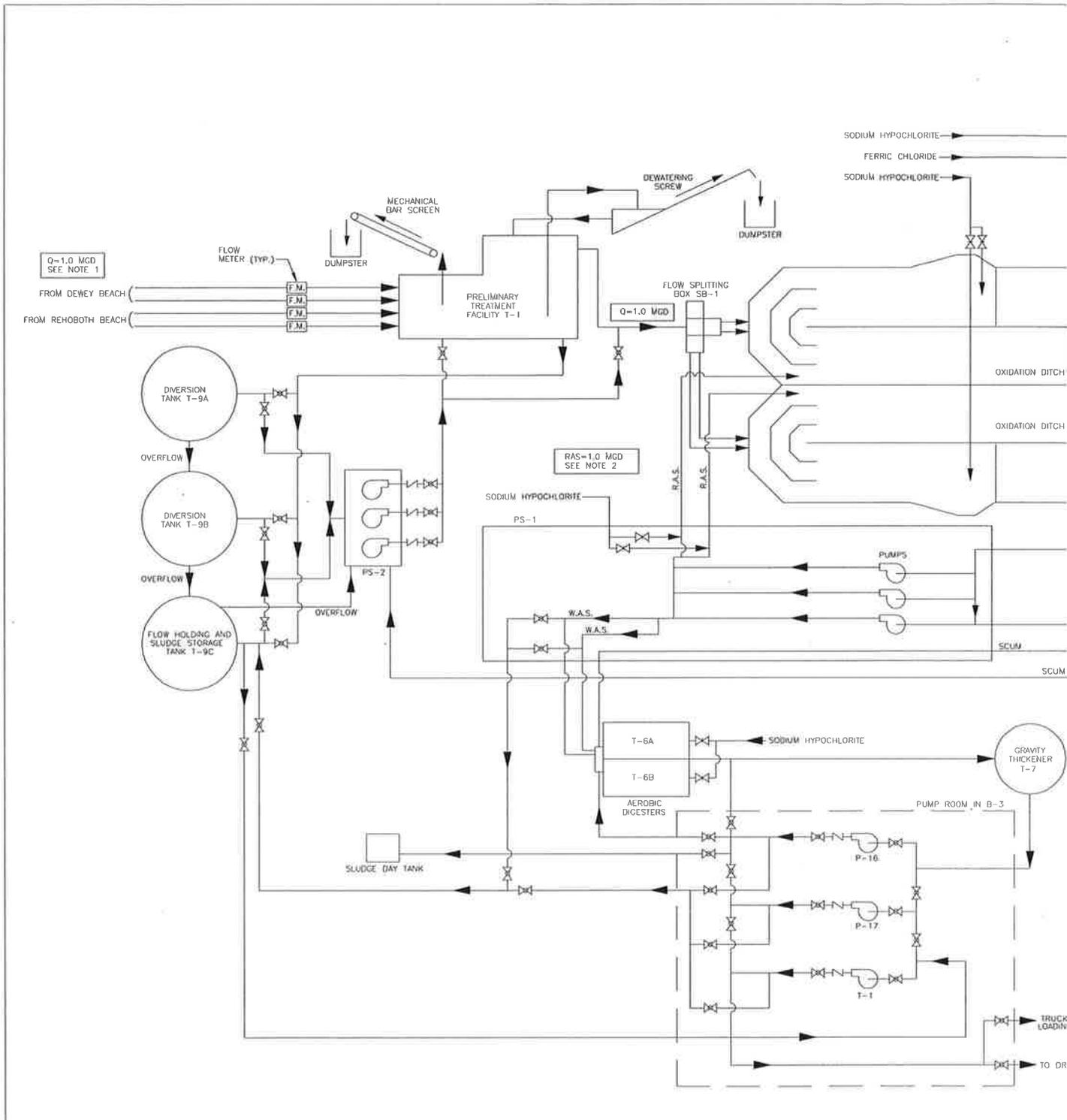
DESIGN ENGR. RJM/DRG  
 DRAWN BY TB  
 PROJECT ENGR. LM  
 PROJECT MGR. TLW  
 CHECKED BY RJM  
 DATE MAY, 1984

APPROVED  
*Robert W. DeSjuy*  
 APPROVED  
 SEAL  
 ROBERT W. DESJUY  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 NO. 3100  
 DELAWARE

CITY OF REHOBOTH BEACH, DELAWARE  
 WASTEWATER TREATMENT PLANT  
 POWER DISTRIBUTION  
 SINGLE LINE DIAGRAM

SCALE AS NOTED  
 PROJECT NO. 00-0701-06  
 DRAWING NO. 336  
 SHEET



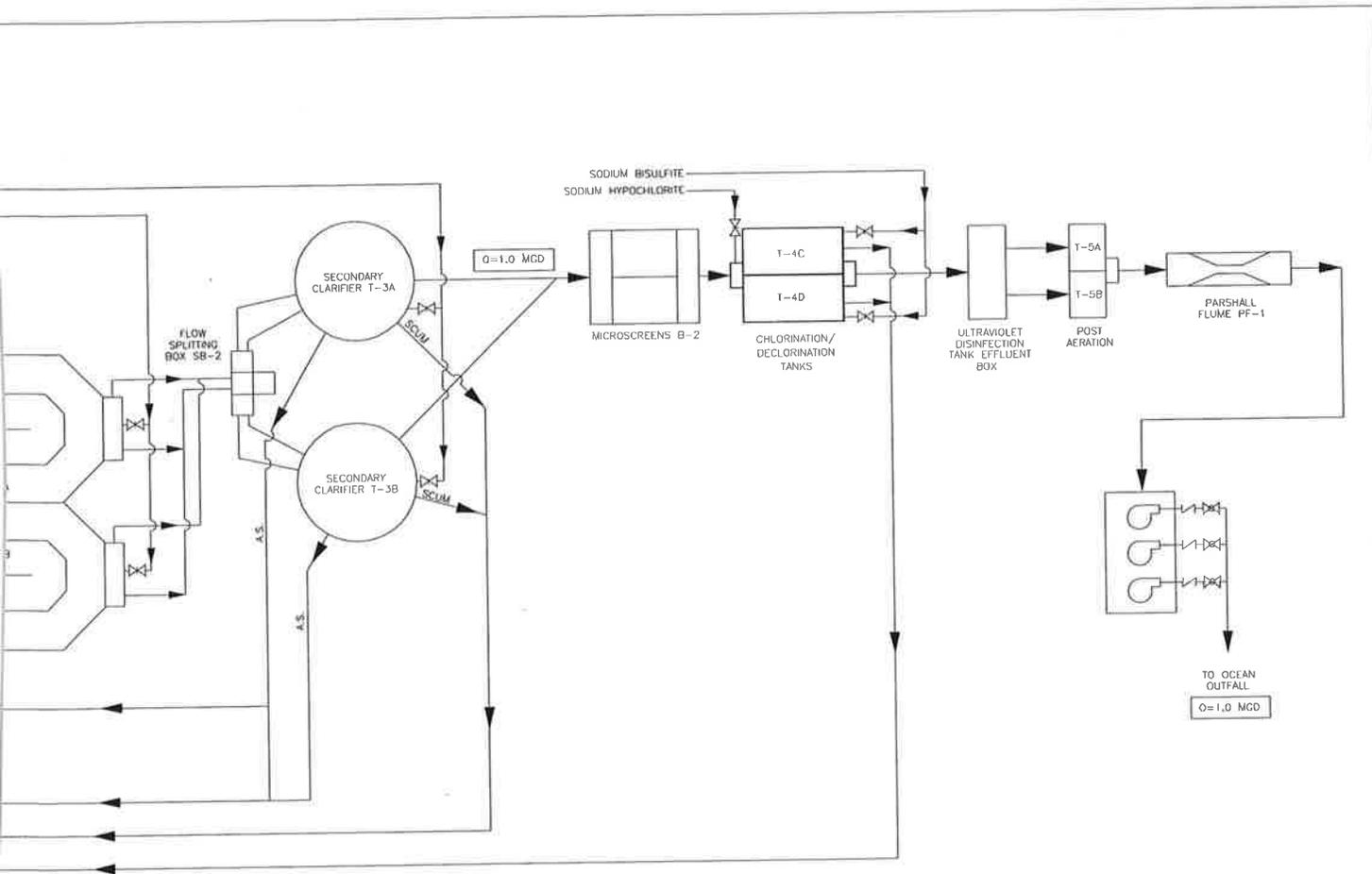


PROCESS FLOW DIAGRAMS

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date


**GHD** CLIENT  
 Suite 300 16701 Melford  
 T 1 301 805 9629 F 1 301  
 E bowmail@ghd.com W





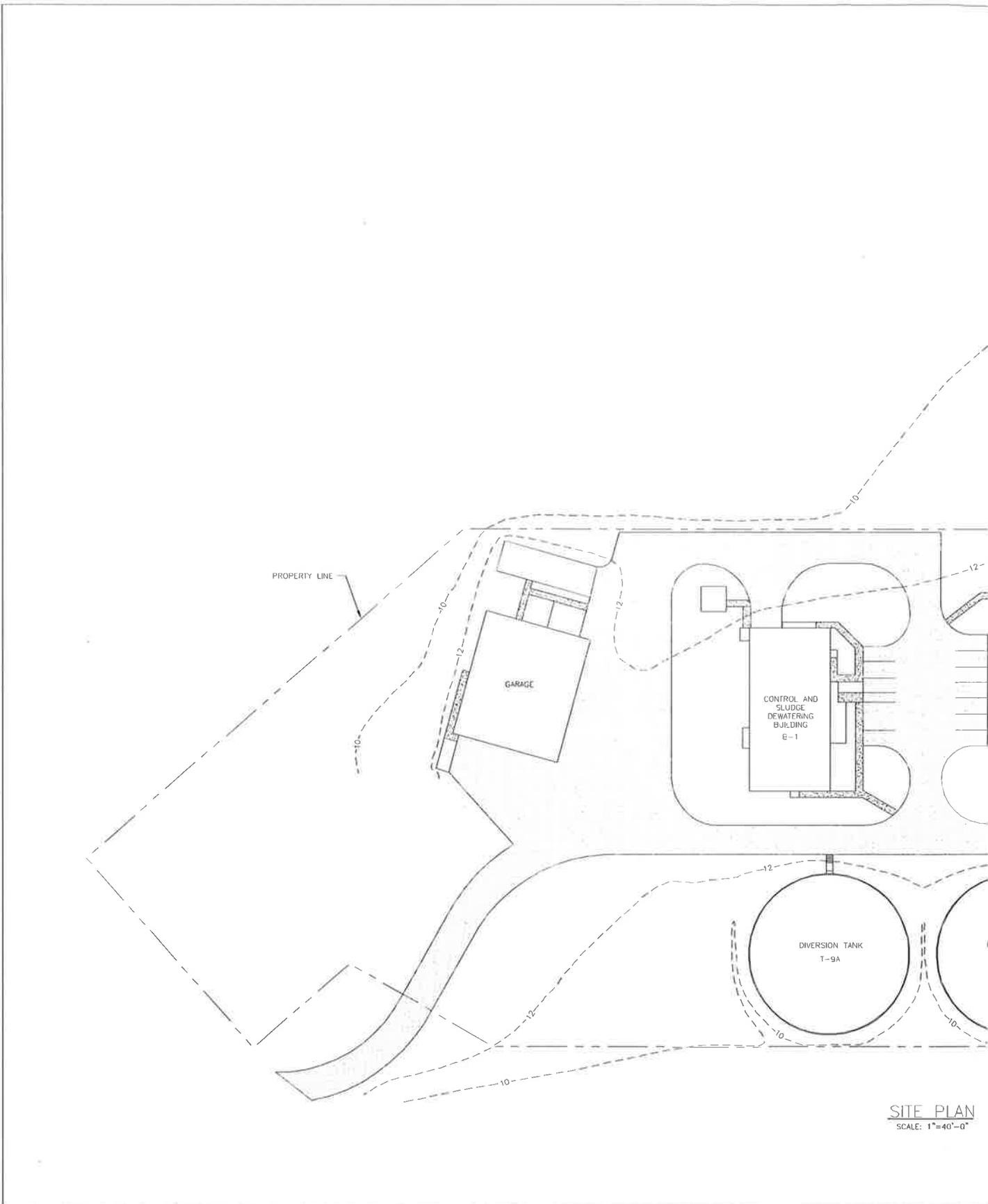
NOTE:

1. BASED ON AVERAGE DAILY FLOW = 1.0 (ANNUAL AVERAGE).
2. FLOW SPLIT EVENLY BETWEEN (2) REACTORS IN SUMMER, DURING WINTER TYPICALLY ONE TRAIN IN SERVICE.

GRAM

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		Drafting Check	Design Check	Project <b>NPDES PERMIT APPLICATION</b>
		Approved		Title <b>PROCESS FLOW DIAGRAM</b>
		Date		Original Size
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Ansl D Drawing No: Rev:





**SITE PLAN**

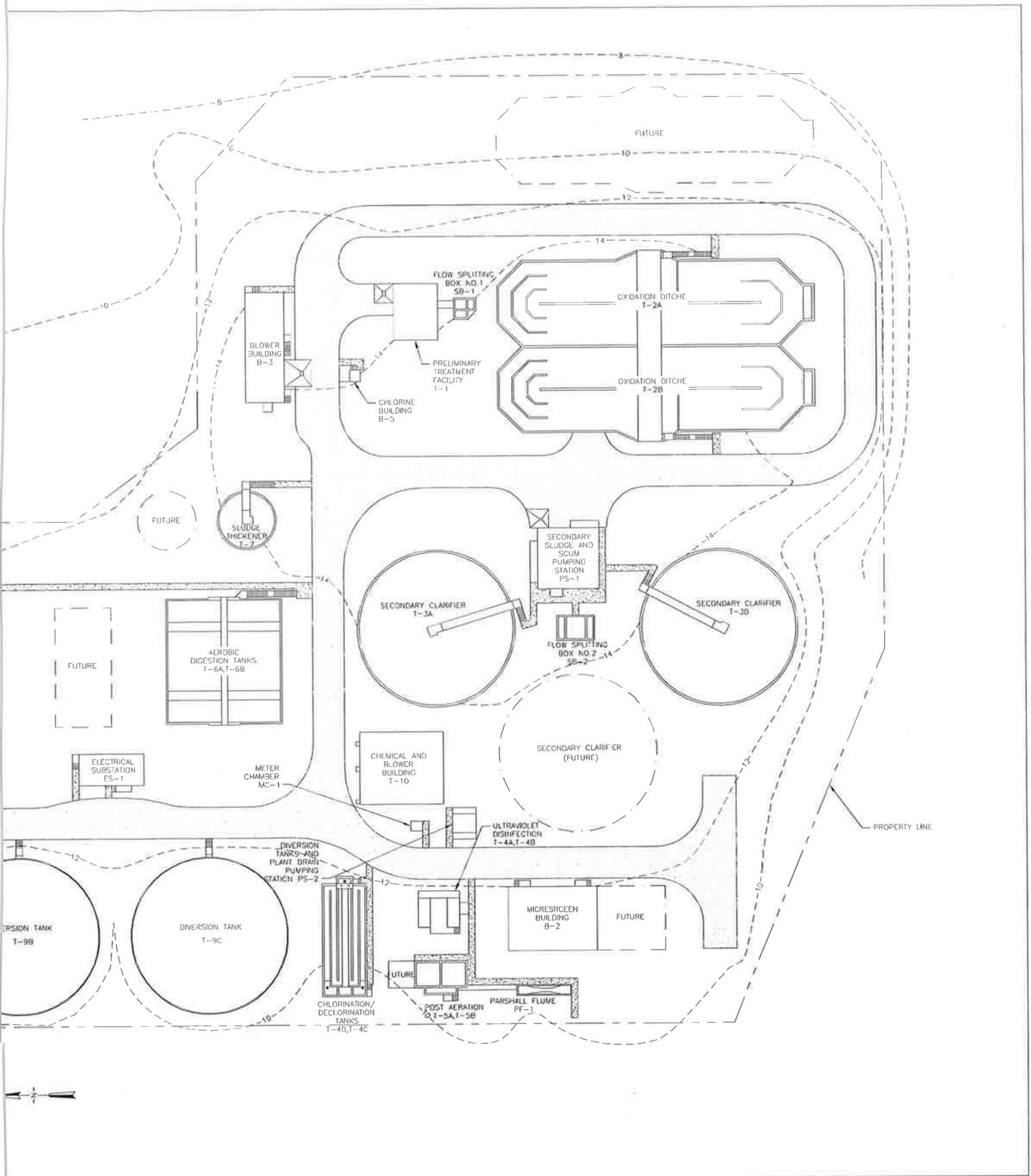
SCALE: 1"=40'-0"

No	Revision	Note: * indicates signatures on original issue or last revision of drawing	Drawn	Checked	Approved	Date



Suite 330, 16701 Melrose  
 T 1 301 805 5629 F 1  
 E bowre@ghd.com





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	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size <b>Ansi D</b> Drawing No:

1805 4665  
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Rev:

