
Better Public Access to Point Source Wastewater Pollutant Discharge Information

<http://www.epa.gov/pollutantdischarges>



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Office of Enforcement
and Compliance
Assurance

Wastewater Pollution Data



There is an important online web tool that provides the public with access to wastewater pollutant discharge data that will allow for:

- better transparency of wastewater pollutant discharges;
- enhanced utility of these data; and
- improved data quality.

The information is being rolled out as part of the President's transparency initiative and the Agency's Clean Water Act Action Plan, which seeks to improve transparency of information and public knowledge about pollutant releases that may cause water impairments.

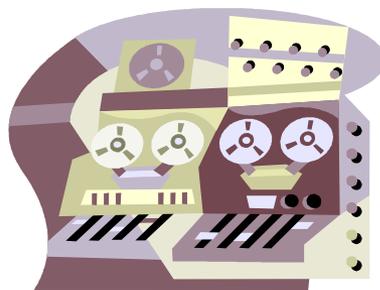


Current Management of DMR Data and Public Access

NPDES regulated facility samples their wastewater and reports results on Discharge Monitoring Reports (DMRs) to State or EPA Region



EPA or State enter these DMR data into ICIS-NPDES



DMR data are made publicly available



- EPA manages a national database (called ICIS-NPDES) for storing and managing NPDES program data (including DMR data)
- EPA policy currently only requires States and Regions to enter permit and DMR data on facilities identified as “Majors” (e.g., POTWs with discharges greater than 1 million gallons per day, which is approximately the equivalent of a city of 14,000 people).



New EPA Web Tool for Access to Wastewater Data

- In January 2012 EPA released a new web tool, DMR Pollutant Loading Tool, www.epa.gov/pollutantdischarges, for easier access to DMR data. This tool contains facility data for over 150,000 facilities with additional permit and DMR data for approximately 40,000 of these facilities for the years 2007 through 2011.
- Constructed to answer questions in an easy to use interface:
 - Who is the discharger of interest: [All, POTW, Industry (Type of Industry)]
 - What is the pollutant of interest: [All, Specific Pollutant, Pollutant Group]
 - Where is the discharge of interest: [Nationwide, Specific Location, Specific Watershed]
 - How much point source pollution is discharged?
- Displays or calculates pollutant loads (pounds) from DMR data.
 - Pollutant Discharge Concentration (mg/L) X Flow (Million Gallons per Day) X 8.34 (conversion factor).
- Significant implications for:
 - Better data for watershed modeling and pollution budgets (TMDLs),
 - Public access,
 - Enforcement targeting and compliance assistance (providing better sense of the importance of effluent discharges and permit limit violations), and
 - Developing effluent limits.



New EPA Web Tool for Access to Wastewater Data



The Loading Tool also allows users to search and review wastewater pollutant discharge data (annual amounts) reported by industrial facilities to EPA under EPA's Toxics Release Inventory (TRI) program.

The current TRI toxic chemical list contains 593 individually listed chemicals and 30 chemical categories.

Users can compare DMR and TRI wastewater pollution data for selected facilities.



New EPA Web Tool for Access to Wastewater Data

- There are two main audiences for the Loading Tool:
 - General Public (Concerned Citizens, Researchers) - Anyone who would like quick access to DMR data based on simple queries (who is discharging what pollutant and where and how much); and
 - Technical Users (NPDES Permit Writers, Watershed Modelers, Regulatory Agencies, Researchers, Enforcement Targeting).
- EPA designed the Loading Tool with different tabs (search interfaces) and result formats (webpage, CSV downloads) to best match the needs of these two audiences.

You are here: [EPA Home](#) » [DMR Pollutant Loading Tool](#) [Share](#)

Discharge Monitoring Report (DMR) Pollutant Loading Tool

[Overview](#) | [EZ Search](#) | [Facility Search](#) | [Advanced Search](#) | [Search EPA Lookup Tables](#) | [User's Guides/Tech Documents](#)

Note: This tool is in beta-phase and undergoing continual development and testing. The tool uses discharge monitoring report (DMR) data from ICIS-NPDES and PCS to calculate discharge loads. EPA has verified the accuracy of the calculations, and has conducted a preliminary review of the tool output to verify the accuracy of the underlying DMR data used for the calculations. However, EPA's review of the underlying data has focused on the highest discharges and included a limited number of facilities. Due to the volume of data, additional errors exist. Please send an email to waterloadings@epa.gov with any comments or questions about the tool.

Overview

The Discharge Monitoring Report (DMR) Pollutant Loading Tool is a new tool designed to help you determine **who is discharging, what pollutants they are discharging and how much, and where they are discharging**. The tool calculates pollutant loadings from permit and DMR data from EPA's Permit Compliance System (PCS) and Integrated Compliance Information System for the National Pollutant Discharge Elimination System (ICIS-NPDES). Pollutant loadings are presented as pounds per year and as toxic-weighted pounds per year to account for variations in toxicity among pollutants. The tool ranks dischargers, industries, and watersheds based on pollutant mass and toxicity, and presents "top ten" lists to help you determine which discharges are important, which facilities and industries are producing these discharges, and which watersheds are impacted.

Read on to learn more about:

- [How to Navigate the Tool](#)
- [Loading Tool Data Sources](#)
- [Data Scope and Limitations](#)
- [2010 Beta Release and Testing](#)

Then begin your search using the [EZ Search](#) or the [Advanced Search](#) interface. If you have additional questions or would like more information about the tool, you can access more detailed information in the [Users Guide/Tech Documents](#) tab.

Loading Tool Search Tabs



DMR Pollutant Loading Tool – EZ Search

1 Location or Watershed

Nationwide

Search by Location

Zip Code

EPA Region:
Select an EPA region ▼
[View EPA regional map](#)

OR

State
Select a state ▼

City

County

Search by Watershed

Zip Code

Watershed ID (12-Digit HUC)

[Find 12-digit HUC on a map](#)

Major U.S. Watersheds:
Select a watershed group ▼

Only include facilities that discharge:

to impaired waterbodies

pollutants contributing to a waterbody impairment

to counties with ESA-listed aquatic species

2 Pollutant

All Pollutants

Specify Pollutant

Pollutant Name(s) (or partial name(s))

Separate pollutants with a semicolon (;)

Chemical Abstract Service Number (CAS)
(without dashes)

Pollutant Categories

- Nitrogen
- Phosphorus
- Organic Enrichment
- Solids
- Pathogen Indicators
- Metals
- Clean Water Act Priority Pollutants
- CERCLA Hazardous Substances
- TRI Chemicals
- Temperature
- Wastewater Flow

3 Industry

All Point Sources

Publicly Owned Treatment Works (POTWs) Only

Industrial Point Sources (non-POTW)

Point Source Category:
All Point Source Categories ▼

Industrial Sector ID (2-Digit SIC Code):
All SIC Codes ▼

OR

Enter a Industrial Sector ID (4-digit SIC Code):

[SIC Code lookup](#)

2-digit NAICS code:
All NAICS Codes ▼

Only include facilities that link to TRI ID(s)

Limit to facilities that:

- Report TRI releases to surface waters
- DO NOT report TRI releases to surface waters

Only include facilities that DO NOT link to TRI ID(s)

Clear selection

If you would like more detailed information, try the [Advanced Search >](#)



EZ Search: “Who discharges the most nitrogen in Chesapeake Bay watershed?”

Select Reporting Year: 2010

1 Location or Watershed

Nationwide

Search by Location

Zip Code:

Search by Watershed

Zip Code:

Watershed ID (12-Digit HUC):

Find 12-digit HUC on a map

Major U.S. Watersheds:

2 Pollutant

All Pollutants

Specify Pollutant

Pollutant Name (or partial name):

Chemical Abstract Service Number (CAS) (without dashes):

Pollutant Categories

- Metals
- Nitrogen
- Organic Enrichment
- Pathogen Indicators
- Phosphorus
- Priority Pollutants
- Solids
- Temp
- Waste

3 Industry

All Point Sources

Publicly Owned Treatment Works (POTWs) Only

Industrial Point

Point Source Cat:

Industrial Sector ID (2-Digit SIC Code):

[SIC Code lookup](#)

2-digit NAICS code:

EZ Search Results

[View Map of Matching Facilities](#)

Search criteria:
Major watershed = San Francisco AND Pollutant name Like 'selenium' AND All industries

Search statistics:

	Total Count	Majors	Minors	With Facility Info Only	With DMR Data	With Permit Limits
Counts of facilities:	24	24	0	0	24	8

Top SIC Discharges (2007)

4-Digit SIC Code	SIC Description	Avg Conc (mg/L)	Max Conc (mg/L)	Total Pounds (lbs/yr)	Total TWPE (lbs-eq/yr)	Avg Flow (MGD)
2911	PETROLEUM REFINING	0.0204	0.044	1,366	1,530	13.2
4952	SEWERAGE SYSTEMS	0.0015	0.032	828	927	19.3
4911	ELECTRICAL SERVICES	0.00025				
3312	BLAST FURN/STEEL WORKS/ROLLING	0.000046				

(1) Select “Chesapeake Bay Basin” from “Major U.S. Watersheds” menu

(2) Select “Nitrogen” under “Pollutant Categories”

(3) Use the default selection of “All Point Sources” in this box.

If you would like more detailed information, try t

Click “Search” to see the top industry sectors and facilities

Click on “Download All Data” to save results in a CSV file.

EZ Search: “What petroleum refinery discharges the most pollution in EPA Region 6?”

1 Location or Watershed

Nationwide

Search by Location

Zip Code

EPA Region: **06**

View EPA regional map

OR

State

Select a State

City

County

Search by Watershed

Zip Code

12-Digit HUC

Find 12-digit HUC on a map

Major U.S. Watersheds:

Please Select a Watershed

2 Pollutant

All Pollutants

Specify Pollutant

Pollutant Name (or partial name)

Chemical Abstract Service Number (CAS) (without dashes)

Pollutant Categories

- Metals
- Nitrogen
- Organic Enrichment
- Pathogen Indicators
- Phosphorus
- Priority Pollutants
- Solids
- Temperature
- Wastewater Flow

3 Industry

All Point Sources

Publicly Owned Treatment Works (POTWs) Only

Industrial Point Sources

Point Source Category:

All Point Source Categories

2-Digit SIC Code:

All SIC Codes

OR

Enter a 4-digit SIC Code:

2911

SIC Code lookup

Industrial Category Rankings

Top Industrial Dischargers of Toxic Pollutants

[View Map of Matching Facilities](#)

Search If you would like more detailed information, try the [Advanced Search](#) >

(1) Select “06” from the “EPA Region” menu

(2) Use the default selection of “All Pollutants”

(3) Enter the 4-digit SIC code for the petroleum refining sector (2911)

Search statistics:

	Total Count	Majors	Minors	With Facility Info Only	With DMR Data	With Permit Limits
Counts of facilities:	81	44	37	27	52	52

Top Pollutants by Pound (2007)

Pollutant Name	Total Pounds
Solids, total dissolved	118,157,259
Chemical oxygen demand (COD)	43,361,922
Solids, total suspended	30,967,666
Carbon	17,928,406
Oil and grease per production	8,361,655
Sulfate	5,978,942
BOD, 5-day, 20 deg. C	4,625,788
Chloride	3,757,818
Ammonia	1,693,982
Sodium chloride	1,112,869

Top Pollutants by Toxic-Weighted Pounds (2007)

Pollutant Name	Total TWPE
Sulfide	89,603
Cyanide	
Selenium	
Lead	
Chlorine	
Benzo[a]pyrene	
Ammonia	1,880
Zinc	1,689
Fluoride	1,652
Benzo[a]anthracene	1,364

Click “Search” to see the largest pollutant discharges (in pounds and toxic-weighted pounds) from petroleum refineries in EPA Region 6

Click on “Download All Data” to save results in a CSV file.

Ability to “Drill Down” to See Facility Level Data

Facility Information

NORTHEAST WPCP, PHILADELPHIA, PA, 19137

NPDES ID: PA0026659
FRS ID: 110001076978
TRI ID:
CWNS ID: 43000094901
Facility Type: POTW
Permit Type: NPDES Individual Permit
Major/Minor Indicator: Major
County: PHILADELPHIA
Congressional District: Pennsylvania's 3rd District

Latitude: 39.99138
Longitude: -75.085081
Facility Design Flow (MGD): 210
Actual Average Facility Flow (MGD):
4-Digit SIC Code: 4952 - SEWERAGE SYSTEMS
NAICS Code: 221320 -
Likely Point Source Category:
[View Enforcement Compliance Report](#)
[View Effluent Discharge Charts](#)

Basic facility information, including location, program ID's, industrial classification, and links to EPA's ECHO website

Top Pollutants by Pound (2007)

Pollutant Name	Total Pounds
BOD, carbonaceous, 20 day, 20 C	17,088,191
Nitrogen	8,912,508
Ammonia	7,728,598
Solids, total suspended	6,941,835
BOD, carbonaceous, 05 day, 20 C	5,296,292
Nitrogen, nitrate dissolved	1,105,786
Nitric nitrogen, dissolved (as N)	672,416
Phosphorus	478,314
Chlorine	280,128
Iron	185,007

[Download All Data](#)

Top Pollutants by Toxic-Weighted Pounds (2007)

Pollutant Name	Total TWPE
Chlorine	115,069
Ammonia	5,579
Copper	4,749
Lead	2,657
Nitric nitrogen, dissolved (as N)	2,155
Zinc	1,441
Iron	1,038
Nitrogen, nitrate dissolved	826
Lindane	201
Tetrachloroethylene	98.5

[Download All Data](#)

Top ten pollutant discharges in pounds and top ten pollutant discharges in toxic-weighted pounds.



Map showing facility location

Receiving Water Information

Waterbody Name (from CNIS): Delaware River
Waterbody Number (REACH Code): 02040202000077
Watershed Number(12-Digit HUC): 020402020405
Listed for Impairment? Yes

Receiving Water Information including an indicator for whether receiving stream is on EPA's 303d list of impaired waters.

CWNS Treatment Information

The following information comes from EPA's 2008 CWNS. The CWNS Factsheet provides additional information on this POTW.

Current Treatment in Place: Activated Sludge Process & Modifications, Pretreatment, Sedimentation

Current Advanced Treatment in Place (unchecked boxes means treatment not present):

BOD Removal Nutrient Removal
 Ammonia Organic Removal Nitrogen Removal
 Metals Removal Phosphorus Removal

Residents Served: 985,611
Non-Residents Served: 271,906

Wastewater treatment information from CWNS

NPDES Program Information

[View State Program Information](#)
[View EPA Regional Program Information](#)

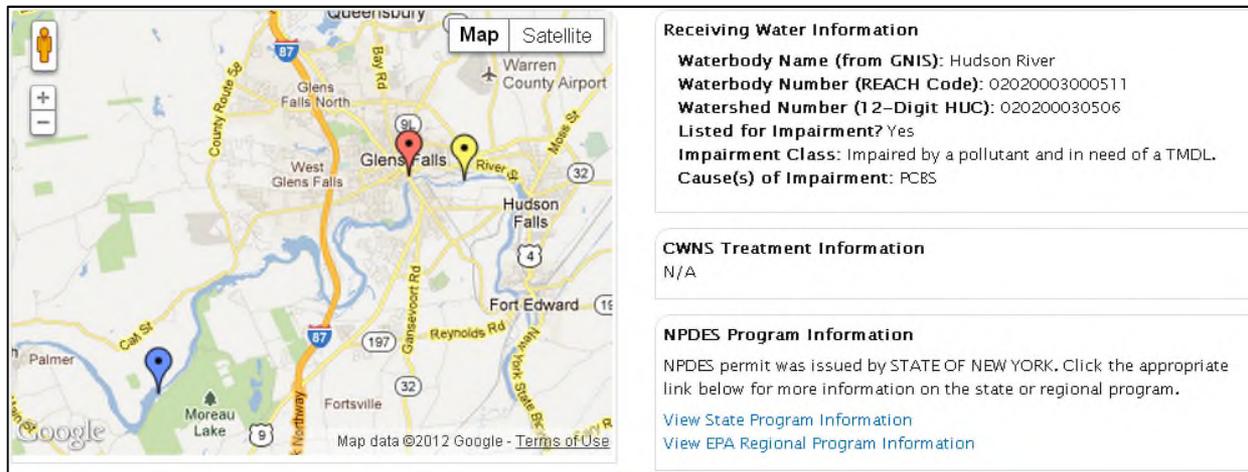
Links to EPA Region and State Program websites

[Back to Facility Search](#) [Report DMR Error](#)



Linkages to Watershed Monitoring Data

At the facility level view the Loading Tool also displays the nearest upstream and downstream STORET stations.



The screenshot displays a map of the Hudson River area near Glens Falls, New York. A red pin marks the facility location, a blue pin marks an upstream STORET station, and a yellow pin marks a downstream STORET station. The map includes labels for various locations such as Glens Falls, West Glens Falls, Hudson Falls, Fort Edward, and Fortville, as well as major roads like I-97 and I-67. To the right of the map is a data panel with the following information:

Receiving Water Information
Waterbody Name (from GNIS): Hudson River
Waterbody Number (REACH Code): 02020003000511
Watershed Number (12-Digit HUC): 020200030506
Listed for Impairment? Yes
Impairment Class: Impaired by a pollutant and in need of a TMDL.
Cause(s) of Impairment: PCBs

CWNS Treatment Information
N/A

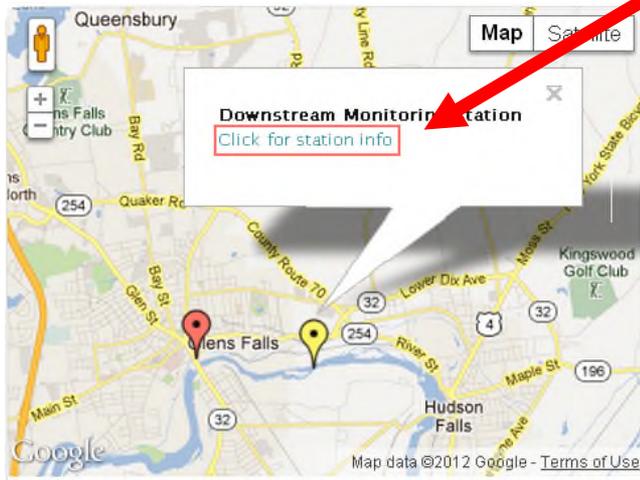
NPDES Program Information
NPDES permit was issued by STATE OF NEW YORK. Click the appropriate link below for more information on the state or regional program.
View State Program Information
View EPA Regional Program Information

Loading Tool map showing facility location (Red), upstream STORET station (Blue), and downstream STORET station (Yellow)



Linkages to Watershed Monitoring Data

The Loading Tool also provides a link to the STORET Watershed Monitoring Station Page



U.S. ENVIRONMENTAL PROTECTION AGENCY

STORET

Recent Additions | Contact Us | Print Version Search: **GO**

EPA Home > Water > Wetlands, Oceans, & Watersheds > Monitoring and Assessing Water Quality > STORET > Station Information

Station: 1AFOU001.92 Rt. #120 (W. Glebe Rd)
 Organization: 21VASWCB VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY



Station Information	
Primary Type	River/Stream
Secondary Type	
Latitude/Longitude	Latitude 38.8436 Longitude -77.0775 NAD83
Elevation	
State	VIRGINIA
County	ALEXANDRIA
Hydrologic Unit	02070010 Middle Potomac-Anacostia-Occoquan

	Number of Results	Date Range
pH		2005-03-09 2013-11-07
Alkalinity, total	2	2005-03-09 2005-03-09
Dissolved oxygen (DO)	2	2013-11-07 2013-11-07
Escherichia coli	2	2005-03-09 2013-11-07
Faecal Coliform	2	2005-03-09 2013-11-07
Fixed suspended solids	2	2005-03-09 2005-03-09



Linkages to Receiving Waterbody Stats Data

- The Loading Tool also displays information on the receiving waterbody including data from other databases:

Receiving Water Information

Waterbody Name (from GNIS): Potomac River

Waterbody Number (REACH Code): 02070010000046

Watershed Name and Number (12-Digit HUC): Fourmile Run-Potomac River (020700100301)

Listed for Impairment? Yes

Impairment Class: Impaired by a pollutant and in need of a TMDL.

Cause(s) of Impairment: PATHOGENS

Facility pollutant(s) potentially contributing to impairment: E. coli, thermotol, MF, MTEC

Discharges to a county with ESA-listed aquatic species? Yes

[View the U.S. Fish & Wildlife Service Species By County Report](#)

- Waterbody Name (from GNIS)
- Waterbody Number (REACH Code)
- Watershed Name and Number (12-Digit HUC)
- Listed for Impairment? (Yes/No)
- Impairment Class
- Cause(s) of Impairment
- Facility pollutant(s) potentially contributing to impairment
- Discharges to a county with ESA-listed aquatic species? (from FWS ECOS database)

Example: Blue Plains Wastewater Treatment Plant, Washington, DC (NPDES ID: DC0021199)



Linkages to Receiving Waterbody Stats Data

- This integration allows users to examine the potential impacts point source pollution on impaired waterbodies:

1 Location or Watershed

- Nationwide
- Search by Location
 - Zip Code:
 - EPA Region:
 - [View EPA regional map](#)
 - OR
 - State:
 - City:
 - County:
- Search by Watershed
 - Zip Code:
 - Watershed ID (12-Digit HUC):
 - [Find 12-digit HUC on a map](#)
 - Major U.S. Watersheds:
 - Major Watersheds:

2 Pollutant

- All Pollutants
- Specify Pollutant
 - Pollutant Name(s) (or partial name(s)):
 - Separate pollutants with a semicolon (;)*
 - Chemical Abstract Service Number (CAS) (without dashes):
- Pollutant Categories
 - Nitrogen
 - Phosphorus
 - Organic Enrichment
 - Solids
 - Pathogen Indicators
 - Metals
 - Clean Water Act Priority Pollutants
 - CERCLA Hazardous Substances
 - TRI Chemicals
 - Temperature
 - Wastewater Flow

3 Industry

- All Point Sources
- Publicly Owned Treatment Works (POTWs) Only
- Industrial Point Sources (non-POTW)
 - Point Source Category:
 - Industrial Sector ID (2-Digit SIC Code):
 - OR
 - Enter a Industrial Sector ID (4-digit SIC Code):
 - [SIC Code lookup](#)
 - 2-digit NAICS code:
- Only include facilities that link to TRI ID(s)
 - Limit to facilities that:
 - Report TRI releases to surface waters
 - DO NOT report TRI releases to surface waters
 - Only include facilities that DO NOT link to TRI ID(s)
 - Clear selection



Linkages to Receiving Waterbody Stats Data

Top Pollutants by Pounds (DMR, 2011)

Pollutant Name	Total Pounds (lbs/yr)	Max Allowable Load (lbs/yr)
Solids, total suspended	185,199	1,188,075
BOD, 5-day, 20 deg. C	159,710	1,188,075
Nitrogen	145,922	
Inorganic Nitrogen	82,538	
Organic Nitrogen	61,386	
Phosphorus	11,000	60,955
Ammonia as N	9,577	
Total Residual Chlorine	0	2,598

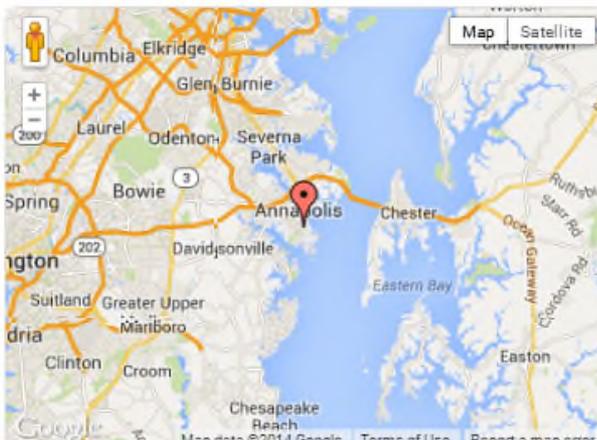
Download All Data Compare to TRI

Top Pollutants by Toxic-Weighted Pounds (TWPE) (DMR, 2011)

Pollutant Name	Total TWPE (lbs-eq/yr)	Max Allowable Load (lbs-eq/yr)
Ammonia as N	10.6	
Total Residual Chlorine	0	1,299

Download All Data Compare to TRI

Loading Tool provides linkages between pollutant discharges and receiving waterbody data



Receiving Water Information

Waterbody Name (from GNIS): Not found
Waterbody Number (REACH Code): 02060004000032
Watershed Name and Number (12-Digit HUC): Whitehall Creek-Severn River-Chesapeake Bay (020600040203)

Listed for Impairment? Yes
Impairment Class: Impaired by a pollutant and in need of a TMDL
Cause(s) of Impairment: NUTRIENTS, PATHOGENS
Facility pollutant(s) potentially contributing to impairment: Ammonia as N; Nitrogen; Organic Nitrogen; Phosphorus
Discharges to a county with ESA-listed aquatic species? Yes
 View the U.S. Fish & Wildlife Service Species By County Report

CWNS Treatment Information
 The following information comes from EPA's 2008 CWNS.
 Additional information on this POTW can be accessed by following the



DMR Pollutant Loading Tool



VALERO REFINING CO, PAULSBORO, NJ, 08066-

NPDES ID: NJ0005029
 FRS ID: 11002294569
 TRI ID(s): **08066MBLLCBILLI**
Click a TRI ID to view that facility's detail page.
 Facility Type: NON-POTW
 Permit Type: NPDES Individual Permit
 Major/Minor Indicator: Major
 Permit Issuance: STATE OF NEW JERSEY
 Approved Pretreatment Program: N/A
 Combined Sewer Overflow (CSO) Outfall: N/A
 County: GLOUCESTER
 Congressional District: New Jersey's 1st District

Latitude: 39.838229
 Longitude: -75.24947
 Facility Design Flow (MGD):
 Actual Average Facility Flow (MGD): 11.3
 4-Digit SIC Code: 2911 - PETROLEUM REFINING
 NAICS Code: 032411 -
 Likely Point Source Category: 419 - Petroleum refining
[View Enforcement Compliance Report](#)
[View Effluent Discharge Charts](#)
[View Permit Limits](#)

Values highlighted in blue contain loads calculated using data that has been flagged as potential outliers or data errors.

View [Facility Loading Calculations](#) for this facility and reporting year. Examining these calculations will show you how the Loading Tool calculates annual pollutant discharges. These calculations can also help identify errors in the underlying discharge monitoring data.

Select Reporting Year:

Top Pollutants by Pounds (DMR, 2010)

Pollutant Name	Total Pounds (lbs/yr)	Max Allowable Load (lbs/yr)
Solids, total dissolved	28,981,867	49,021,086
Chemical oxygen demand (COD)	2,772,303	
Solids, total suspended	597,519	1,589,506
BOD, 5-day, 20 deg. C	246,856	
Oil and grease per production	133,722	373,075
Phosphorus	59,945	
Ammonia as N	34,808	447,483

Top Pollutants by Toxic-Weighted Pounds (TWPE) (DMR, 2010)

Pollutant Name	Total TWPE (lbs-eq/yr)	Max Allowable Load (lbs-eq/yr)
Sulfide	2,407	17,465
Ammonia as N	38.6	497
Phosphorus	0	
Chromium	0	
Chromium, Hexavalent	0	1,512

[Download All Data](#) [Compare to TRI](#)

You have questions when you see a discharge....

...the Loading Tool can provide answers!



Additional Slides

- Questions, comments, training requests on the Loading Tool should be directed to:

Carey A. Johnston, P.E.
U.S. EPA, Office of Compliance
ph: (202) 566 1014
johnston.carey@epa.gov

