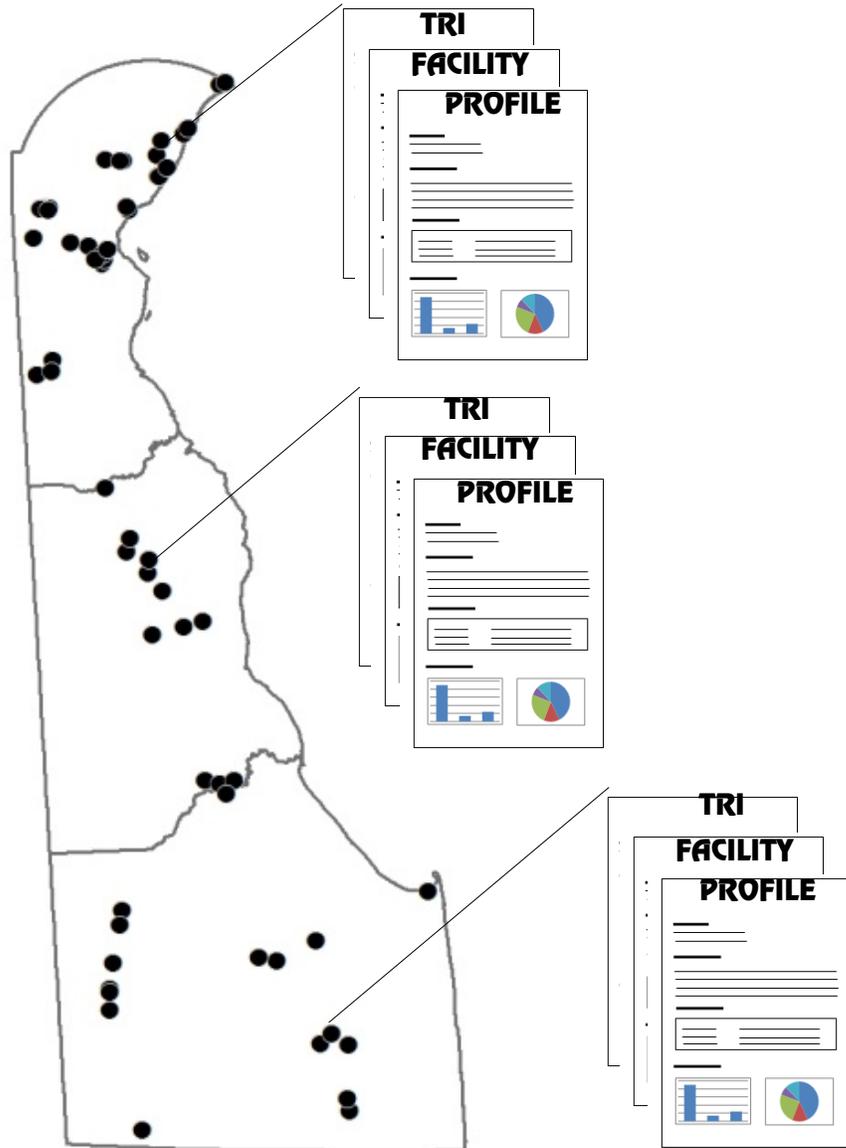




2016 DELAWARE TRI FACILITY PROFILES



Prepared by the EPCRA Reporting Program
Department of Natural Resources and Environmental Control

January 2018

John Carney

Governor

Shawn M. Garvin

Secretary, DNREC

Marjorie A. Crofts

Director, Division of Waste and Hazardous Substances

Virgil Holmes

Director, Division of Water

Ali Mirzakhali

Director, Division of Air Quality

Jamie Bethard

Program Manager, Emergency Prevention and Response Section

This report was prepared with the assistance of numerous individuals in the Department of Natural Resources and Environmental Control. Any questions or comments regarding this report should be directed to the principal author:

Debra Nielsen
TRI Coordinator
EPCRA Reporting Program, DNREC
155 Commerce Way, Suite B
Dover, DE 19904
Tel. (302) 739-9405, Fax (302) 739-3106
e-mail: debra.nielsen@state.de.us

DNREC MISSION STATEMENT

The mission of the Department of Natural Resources and Environmental Control is to ensure the wise management, conservation, and enhancement of the State's natural resources, protect public health and the environment, provide quality outdoor recreation, improve the quality of life, and educate the public on historic, cultural, and natural resource use, requirements and issues.

TRI FACILITY PROFILES



The Facility Profiles provide TRI information specific to each reporting facility in Delaware for 2016. The facility profiles can be accessed through the links that are provided on the **TRI Facility Maps** on pages 3 and 4 of this document. The following topics/categories are covered in the facility profiles:

Location/Contact:

The address, phone number, and public contact are provided to encourage the public to contact the facility if they have any additional questions in regards to the facility operations and their TRI numbers. A map showing the approximate location of the site is also included.

Facility Overview:

This section includes a description of the services and products the facility provides, as well as a description of how the predominant TRI chemicals reported are being used. Activities occurring at the facility that impact their TRI numbers are also discussed.

2016 TRI Data:

A table is provided listing the TRI information for each chemical reported at the facility. Chemical information provided includes pounds released on-site to air, water, and land, total pounds transferred off-site, and total pounds of the managed on-site for 2016. It is also noted if the chemical is a known **Persistent Bioaccumulative Toxic (PBT) Chemical** or if is listed as a **carcinogen**. PBTs are discussed in more detail on page 21 and **Appendix I** in the **2016 Delaware TRI Report** and carcinogens are discussed in detail on page 27 and **Appendix J**.

Graphical Information:

Six graphs are provided in this section for visual comparisons, if applicable for the facility.

- **On-site Releases by Media:** Bar chart comparing on-site releases for 2016 among air, water, and land categories.
- **On-site Releases by Chemical:** Bar chart comparing total on-site releases for 2016 for the primary chemicals reported by the facility.
- **Total On-site Releases per Year:** Provides a trend graph over the last ten years for total on-site releases to air, water, land reported by the facility.
- **2016 Distribution of Total TRI Waste:** Pie chart showing the percent distribution of how the total TRI waste reported is managed (On-site Releases, Off-site Transfers, and On-site Management).
- **2016 Distribution of Total Off-site Transfers by Category:** Pie chart showing the percent distribution of the total pounds transferred off-site. Off-site transfers include off-site disposal, energy recovery, recycling, public owned treatment works (POTW), and non POTW treatment.
- **2016 Distribution of Total On-site Waste Management by Category:** Pie chart showing the percent distribution of the total pounds managed on-site. On-site management includes on-site treatment, recycling, and energy recovery.

TRI FACILITY PROFILES



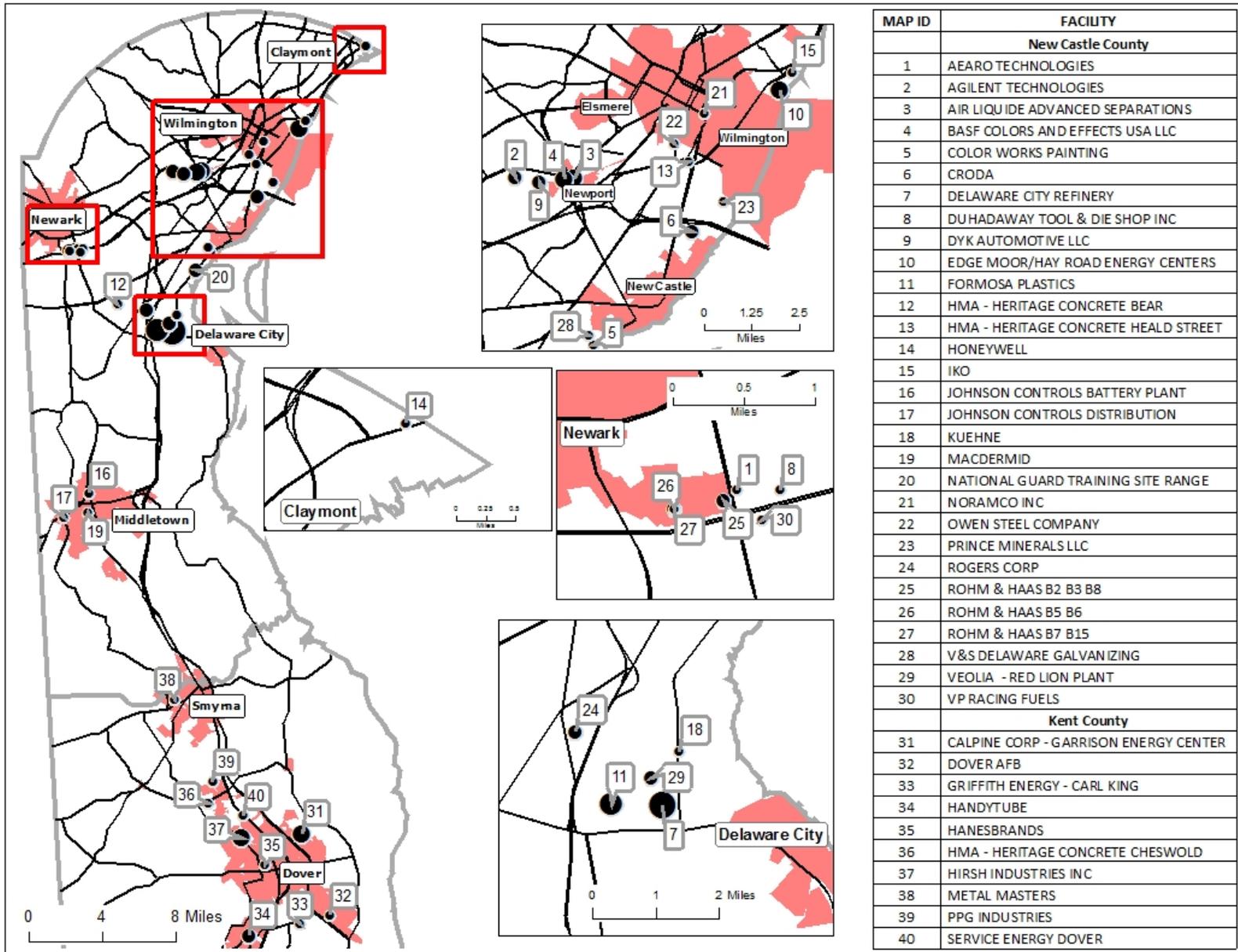
Comparison to Other Delaware TRI Facilities:

This section provides two graphical comparisons for Delaware TRI facilities.

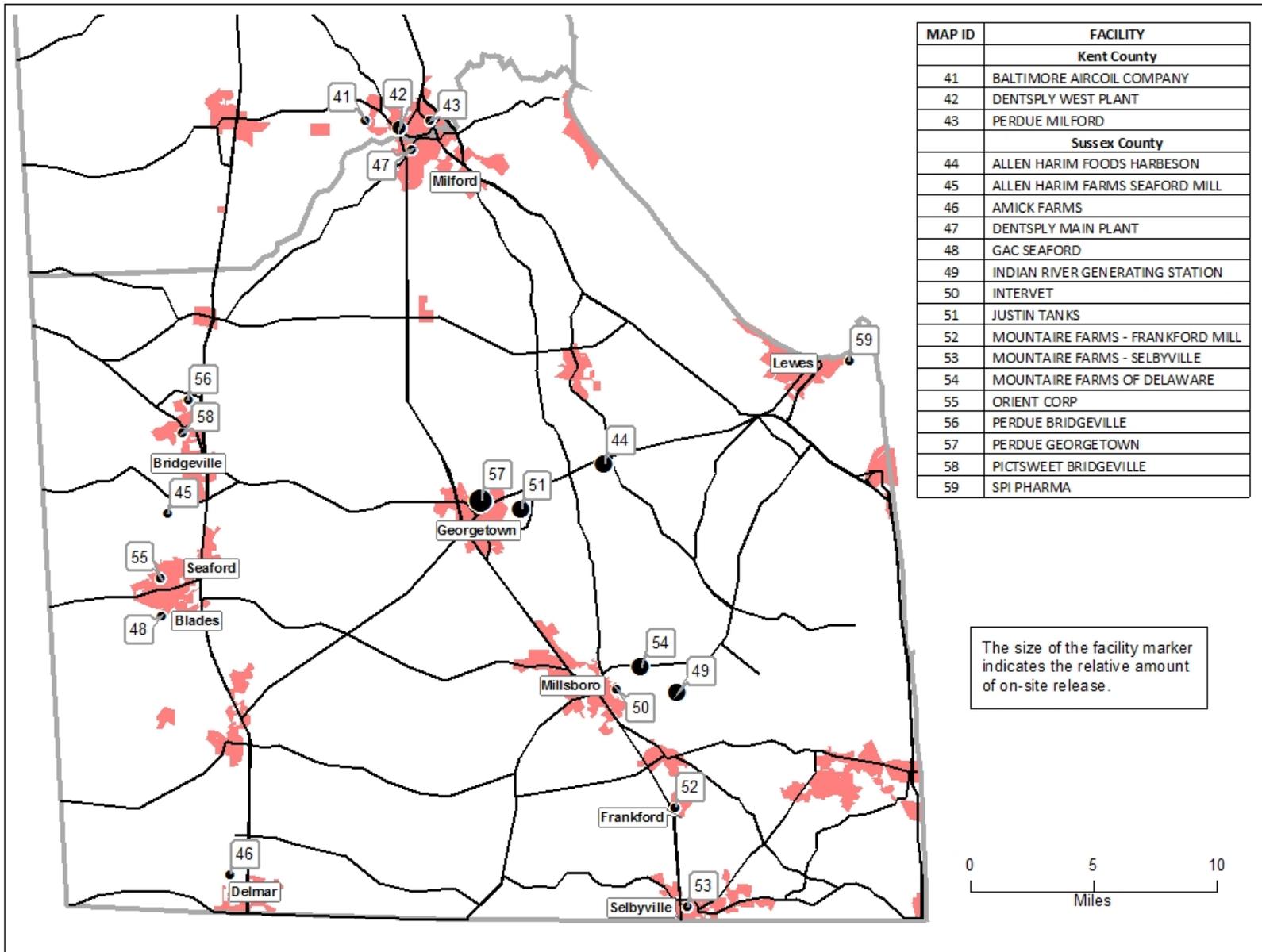
- **2016 On-site Releases: Top 15 Facilities:** Bar chart showing the total on-site releases for the top 15 facilities and a group for all other facilities. The facility is highlighted in red and underlined on the graph. If the facility falls into the bottom third of all facilities for on-site releases in Delaware it is noted. See **Appendices C, E, F** in the **2016 Delaware TRI Report** for further detail for on-site releases.
- **2016 Total TRI Waste Reported: Top 15 Facilities:** Bar chart showing the total waste reported for the top 15 facilities and a grouping for all other facilities. Total waste reported includes waste released on-site, managed on-site, or transferred off-site. The facility is highlighted in red and underlined on the graph. If a facility falls into the bottom third in total waste reported by facilities in Delaware for 2016, it is noted. See **Appendices D and G** in the **2016 Delaware TRI Report** for further detail on off-site transfers and on-site management.

Notable National Rankings:

Notable national rankings for the facility are listed based on a search of the preliminary EPA 2016 data set as of November 2017 using [EPA's TRI Explorer](#). For applicable rankings, the North American Classification Industrial Classification System (NAICS) code for the facility is listed.



MAP ID	FACILITY
New Castle County	
1	AEARO TECHNOLOGIES
2	AGILENT TECHNOLOGIES
3	AIR LIQUIDE ADVANCED SEPARATIONS
4	BASF COLORS AND EFFECTS USA LLC
5	COLOR WORKS PAINTING
6	CRODA
7	DELAWARE CITY REFINERY
8	DUHADAWAY TOOL & DIE SHOP INC
9	DYK AUTOMOTIVE LLC
10	EDGE MOOR/HAY ROAD ENERGY CENTERS
11	FORMOSA PLASTICS
12	HMA - HERITAGE CONCRETE BEAR
13	HMA - HERITAGE CONCRETE HEALD STREET
14	HONEYWELL
15	IKO
16	JOHNSON CONTROLS BATTERY PLANT
17	JOHNSON CONTROLS DISTRIBUTION
18	KUEHNE
19	MACDERMID
20	NATIONAL GUARD TRAINING SITE RANGE
21	NORAMCO INC
22	OWEN STEEL COMPANY
23	PRINCE MINERALS LLC
24	ROGERS CORP
25	ROHM & HAAS B2 B3 B8
26	ROHM & HAAS B5 B6
27	ROHM & HAAS B7 B15
28	V&S DELAWARE GALVANIZING
29	VEOLIA - RED LION PLANT
30	VP RACING FUELS
Kent County	
31	CALPINE CORP - GARRISON ENERGY CENTER
32	DOVER AFB
33	GRIFFITH ENERGY - CARL KING
34	HANDYTUBE
35	HANESBRANDS
36	HMA - HERITAGE CONCRETE CHESWOLD
37	HIRSH INDUSTRIES INC
38	METAL MASTERS
39	PPG INDUSTRIES
40	SERVICE ENERGY DOVER





TRI FACILITY PROFILES

AEARO TECHNOLOGIES LLC

LOCATION/CONTACT:

Address: 650 Dawson Drive
Newark, DE 19713

Phone: (302) 286-2415

Contact: Tom Flaherty



FACILITY OVERVIEW:

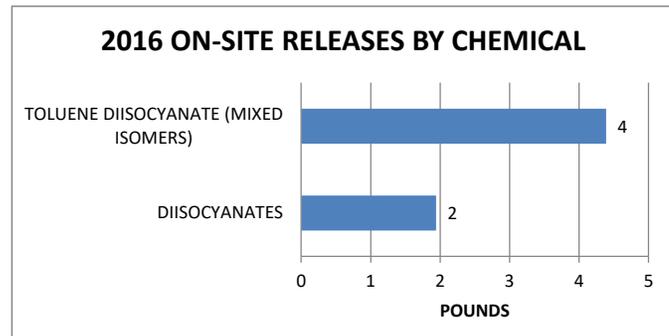
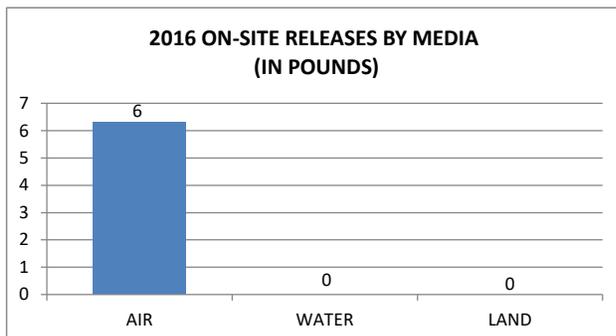
Aearo Technologies LLC manufactures and converts urethane foams and foam composites with a variety of facings for many industries and uses.

Aearo Technologies LLC has reported since 1987, previously as E.A.R. and Cabot Safety. The facility reported on two chemicals in 2016 (diisocyanates and toluene diisocyanates), with on-site releases only to air. These chemicals are utilized in the process of making of the urethane foam and foam composites. The converting operations do not utilize these chemicals. Virtually all of the waste is shipped off site, with less than 0.1% being released on-site to air.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
DIISOCYANATES	2	0	0	2	11,016	0	NO	NO
TOLUENE DIISOCYANATE (MIXED ISOMERS)	4	0	0	4	5,049	0	NO	YES
TOTAL	6	0	0	6	16,065	0		

GRAPHICAL INFORMATION:

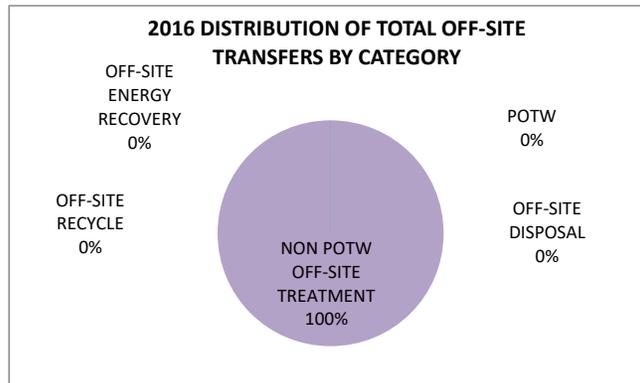
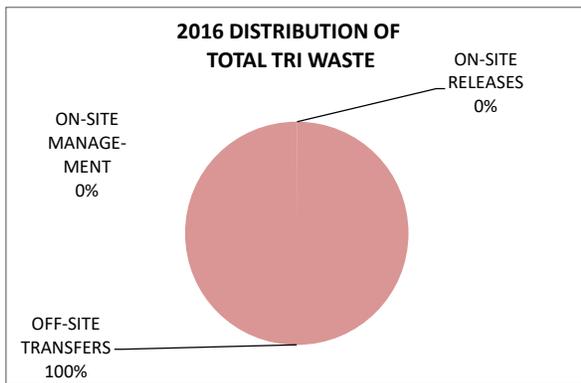
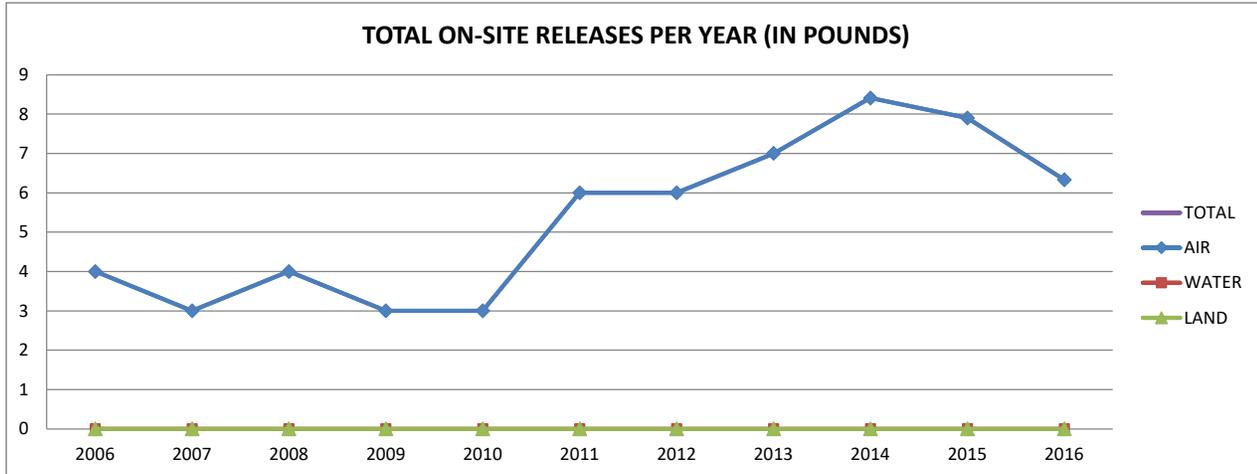


TRI FACILITY PROFILES



AEARO TECHNOLOGIES LLC, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Aearo Technologies ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

NOTABLE 2016 NATIONAL RANKINGS:

Aearo Technologies ranks 79th in the nation for off-site transfers of diisocyanates (out of 1,306 facilities).

Aearo Technologies ranks 14th in the nation for off-site transfers of toluene diisocyanate (mixed isomers) (out of 134 facilities).



TRI FACILITY PROFILES

AGILENT TECHNOLOGIES

LOCATION/CONTACT:

Address: 538 First State Blvd.
Newport, DE 19804

Phone: (302) 636-3668

Contact: Renee Lewandowski



FACILITY OVERVIEW:

Agilent Technologies has two main production processes. The primary production process is the manufacturing of various columns (consumables) for liquid chromatography equipment. This process is further broken down into packing production and column production, in which the material within the column is produced and this material is then packed into the column. The second process is identified as Substrate Manufacturing. This operation is comprised of a highly specialized glass cleaning and coating operation that produces glass slides that are shipped to an Agilent facility in Santa Clara, CA where they become microarray scanner slides used for DNA testing. Both processes are complete independent of one another.

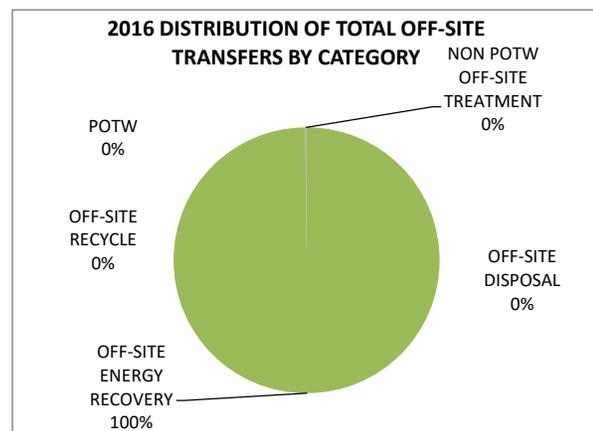
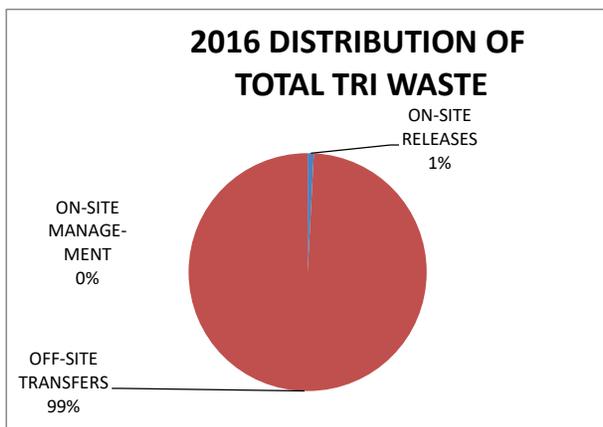
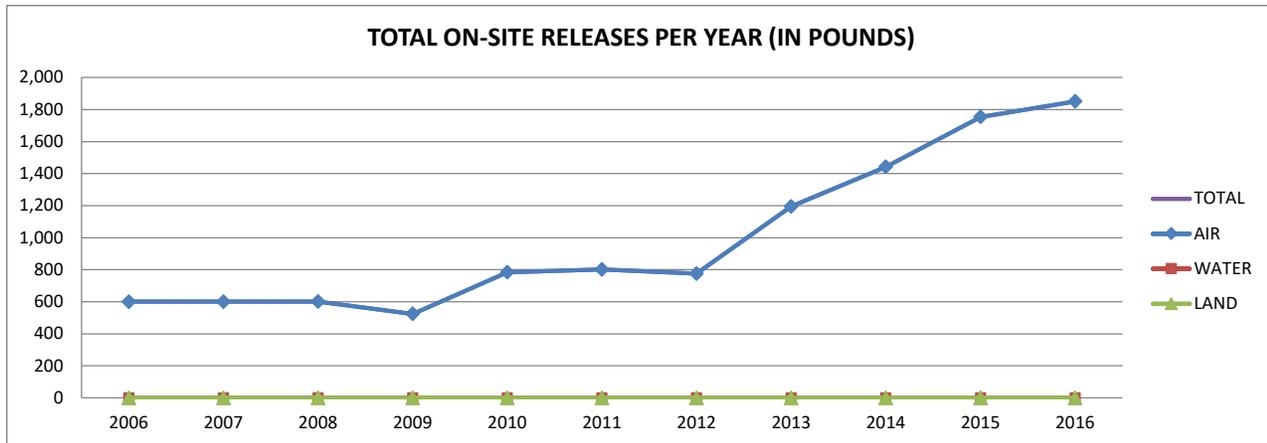
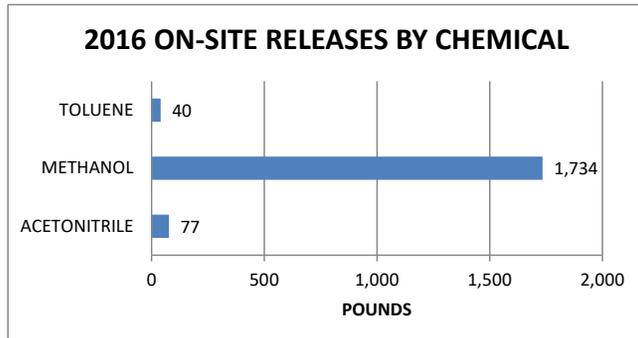
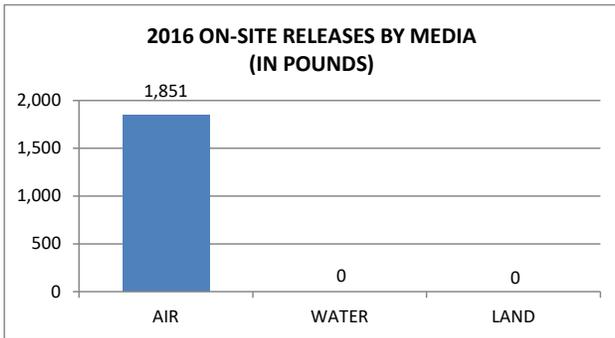
Facilities at the Newport site have reported since in 1990, previously as Rockland Technologies and Hewlett-Packard Company. Agilent Technologies has reported for the site since 2001. Agilent Technologies reported on three chemicals in 2016, toluene, methanol and acetonitrile. All three chemicals (solvents) are utilized as chemical processing aids and do not remain in the product. All on-site releases of these chemicals are to the air. The majority of waste is transferred offsite for treatment or energy recovery. Out of the three chemicals, methanol consists of approximately 94% of all onsite releases, while toluene consists of approximately 69% of all offsite transfers. Fluctuations in onsite releases and offsite transfers are directly related to production.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
ACETONITRILE	77	0	0	77	19,366	0	NO	NO
METHANOL	1,734	0	0	1,734	47,418	0	NO	NO
TOLUENE	40	0	0	40	149,720	0	NO	NO
TOTAL	1,851	0	0	1,851	216,504	0		

AGILENT TECHNOLOGIES, CONT.

GRAPHICAL INFORMATION:

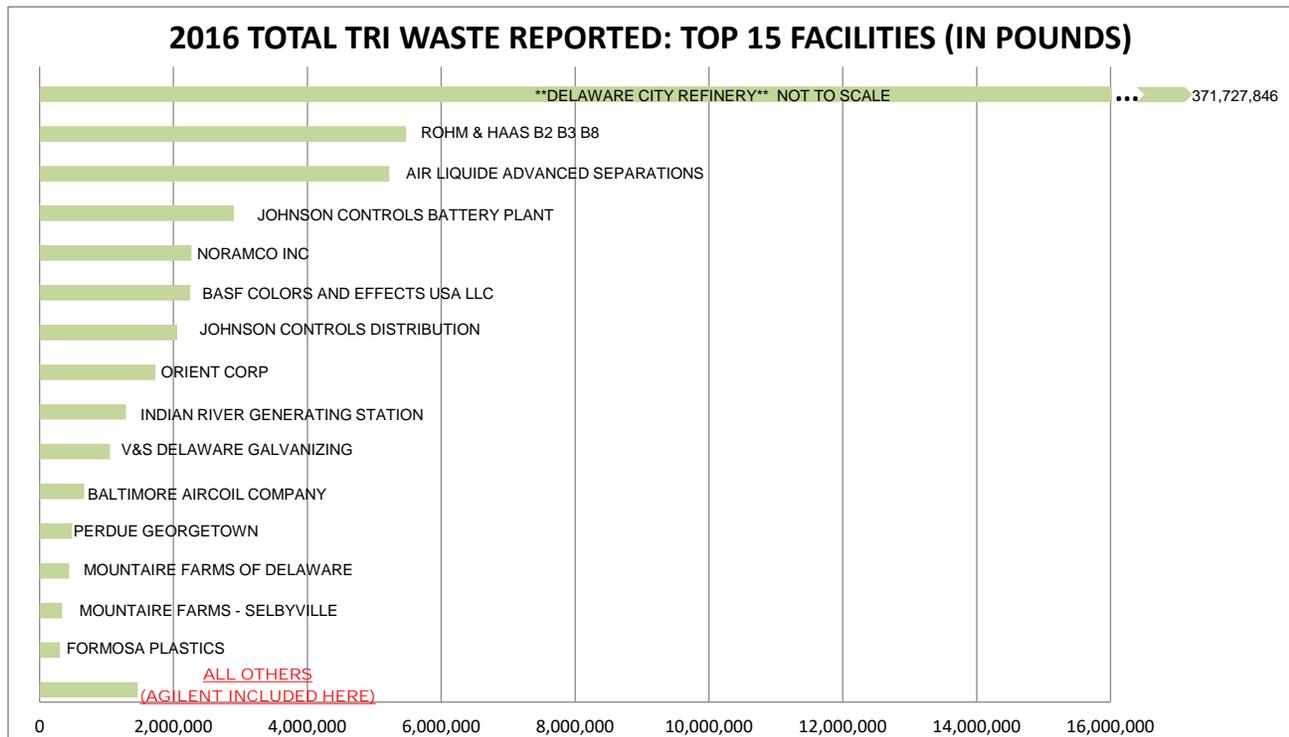
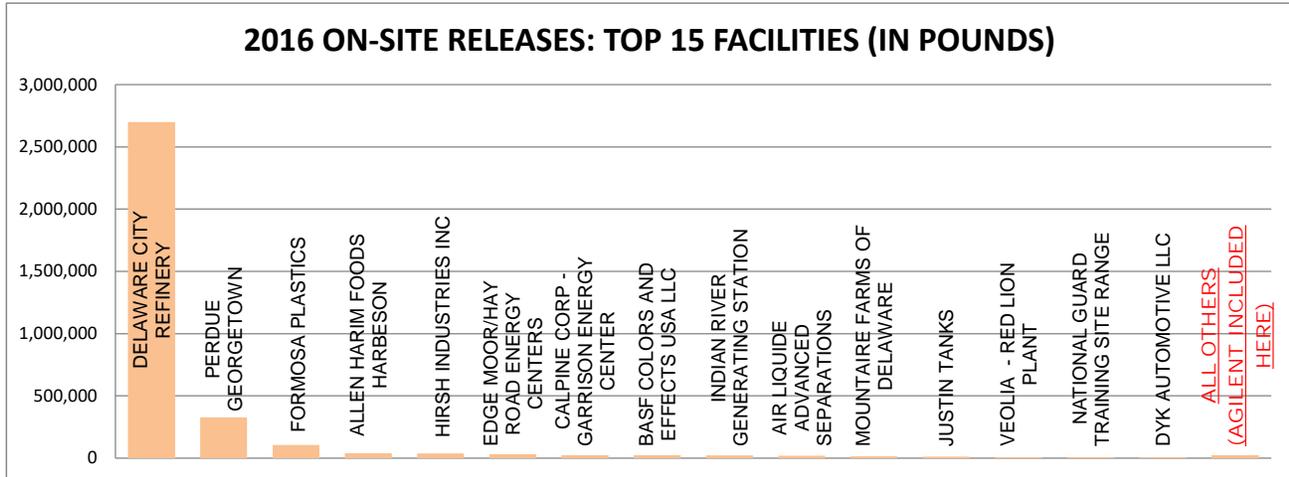




TRI FACILITY PROFILES

AGILENT TECHNOLOGIES, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Agilent Technologies ranks 63rd in the nation for off-site transfers of acetonitrile (out of 132 facilities).



TRI FACILITY PROFILES

AIR LIQUIDE ADVANCED SEPARATIONS

LOCATION/CONTACT:

Address: 305 Water Street
Newport, DE 19804

Phone: (302) 225-2137

Contact: Steve Poorman



FACILITY OVERVIEW:

Air Liquide Advanced Separations provides methods to purify and produce gases for a wide range of applications and manufactures hollow fiber membrane systems for air separation/nitrogen generation, carbon dioxide removal and hydrogen purification.

Air Liquide Advanced Separations has reported since 1992, previously as Air Liquide-Medal. The facility reported five TRI chemicals for 2016, cyclohexane, methanol, n,n-dimethylformamide, n-hexane, and n-methyl-2-pyrrolidone. These chemicals are used as solvents in the fiber production process. The majority of waste is managed on-site and off-site, with less than 0.4% being released on-site to air.

In 2016, on-site recycling for methanol and n-hexane increased significantly. This increase was directly related to increased production of the product that utilizes these chemicals.

2016 TRI DATA (REPORTED IN POUNDS):

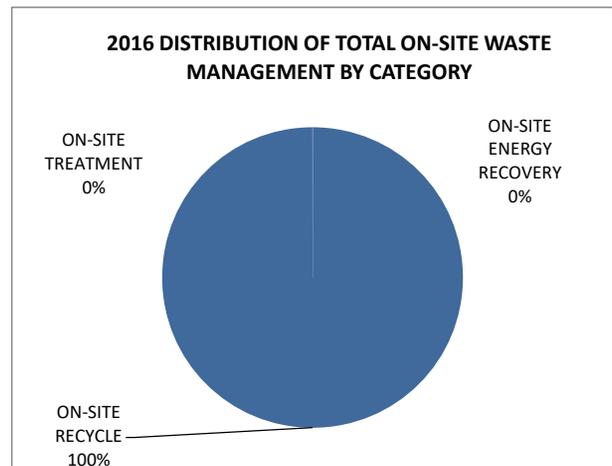
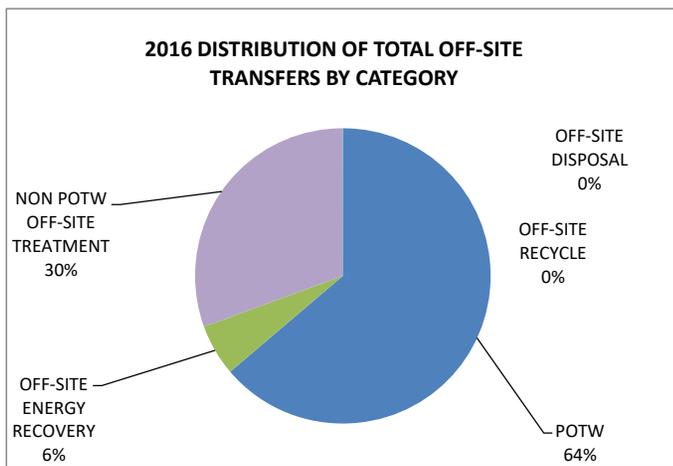
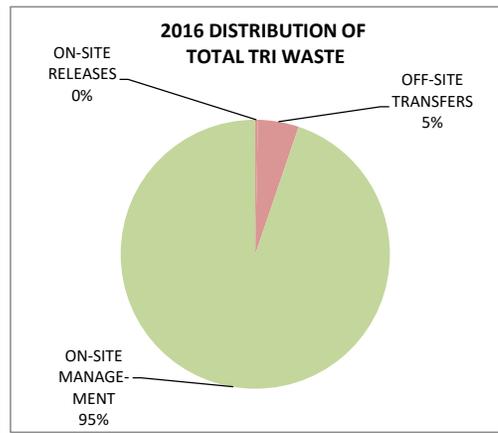
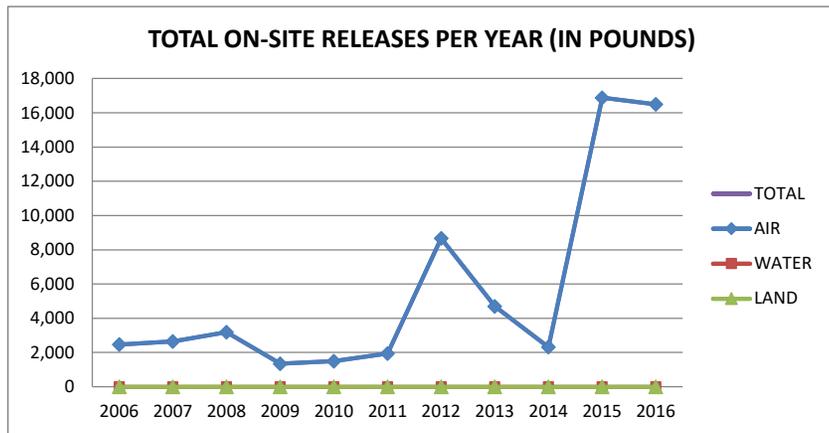
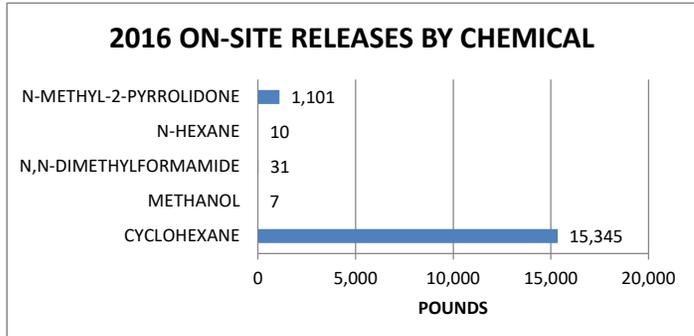
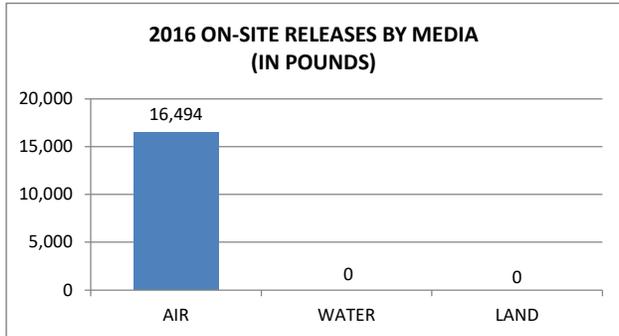
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CYCLOHEXANE	15,345	0	0	15,345	6,041	0	NO	NO
METHANOL	7	0	0	7	78,429	2,711,353	NO	NO
N,N-DIMETHYLFORMAMIDE	31	0	0	31	27,060	0	NO	NO
N-HEXANE	10	0	0	10	0	2,238,093	NO	NO
N-METHYL-2-PYRROLIDONE	1,101	0	0	1,101	144,787	0	NO	NO
TOTAL	16,494	0	0	16,494	256,317	4,949,446		

TRI FACILITY PROFILES



AIR LIQUIDE ADVANCED SEPARATIONS, CONT.

GRAPHICAL INFORMATION:

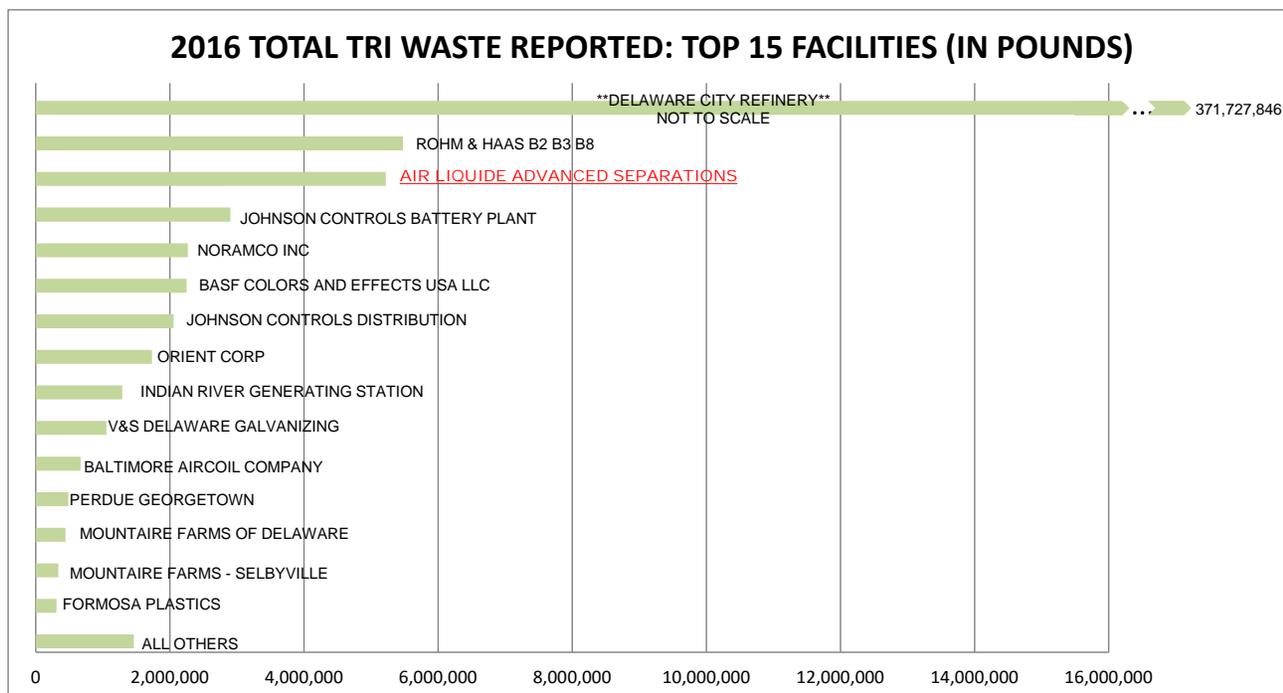
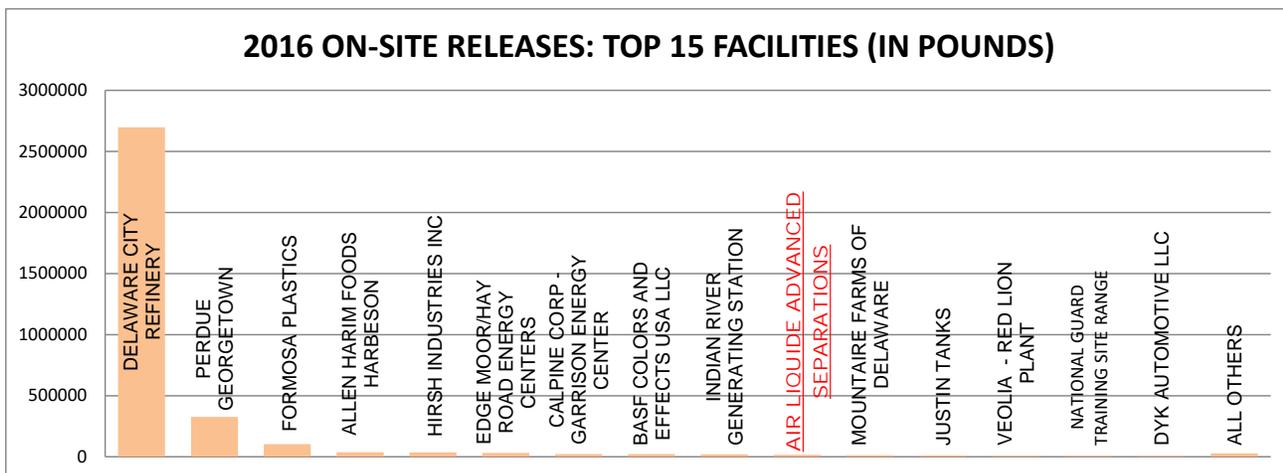




TRI FACILITY PROFILES

AIR LIQUIDE ADVANCED SEPARATIONS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Air Liquide Advanced Separations ranks 31st in the nation for on-site recycling of methanol (out of 2,171 facilities).

Air Liquide Advanced Separations ranks 5th in the nation for on-site recycling of n-hexane (out of 1,222 facilities).

Air Liquide Advanced Separations ranks 52nd in the nation for off-site transfers of n-methyl-2-pyrrolidone (out of 394 facilities).



TRI FACILITY PROFILES

ALLEN HARIM FARMS - SEAFORD

LOCATION/CONTACT:

Address: 20799 Allen Road
Seaford, DE 19973

Phone: (302) 684-1640

Contact: Michael Sause



FACILITY OVERVIEW:

Allen Harim Farms-Seaford operates as a mill facility. The primary function of the mill facility is to receive, process, and combine raw ingredients into a nutritional feed for poultry.

The facility has reported since 2008, previously as Allen Family Foods. Allen Harim Farms has reported since it purchased the facility in September 2011. The facility reported on two chemicals in 2016, copper, copper compounds, manganese, manganese compounds and zinc compounds. All chemicals are being reported on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) The metal compounds reported are components of a trace mineral additive feed ingredients utilized at the mill.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER*	0	0	0	0	0	0	NO	NO
COPPER COMPOUNDS*	0	0	0	0	0	0	NO	NO
MANGANESE*	0	0	0	0	0	0	NO	NO
MANGANESE COMPOUNDS*	0	0	0	0	0	0	NO	NO
ZINC COMPOUNDS*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILES

ALLEN HARIM FOODS - HARBESON

LOCATION/CONTACT:

Address: 18752 Harbeson Road
Harbeson, DE 19951

Phone: (302) 684-1640

Contact: Michael Sause



FACILITY OVERVIEW:

Allen Harim Foods-Harbeson, operates as poultry processing plant. The facility processes poultry for consumer use and utilizes an onsite wastewater system to treat plant water prior to discharging into a stream.

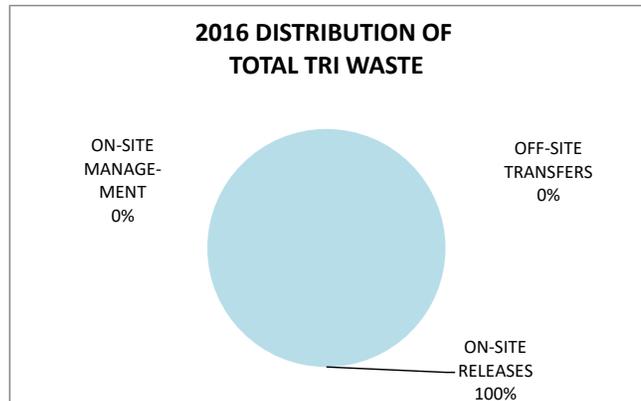
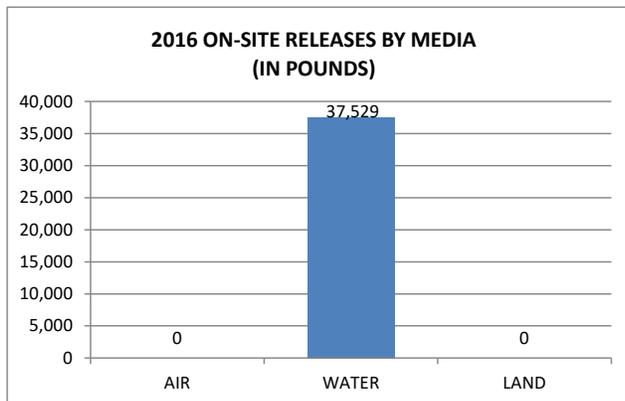
The facility has reported since 1987, previously as Allen Family Foods. Allen Harim Foods has reported since it purchased the facility in September 2011. For 2016, the facility reported on two chemicals, nitrate compounds, and peracetic acid. In the wastewater treatment process, water dissociable nitrate compounds are a by-product of the nitrification process. The second chemical, peracetic acid, was reported on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
NITRATE COMPOUNDS	0	37,529	0	37,529	0	0	NO	NO
PERACETIC ACID*	0	0	0	0	0	0	NO	NO
TOTAL	0	37,529	0	37,529	0	0		

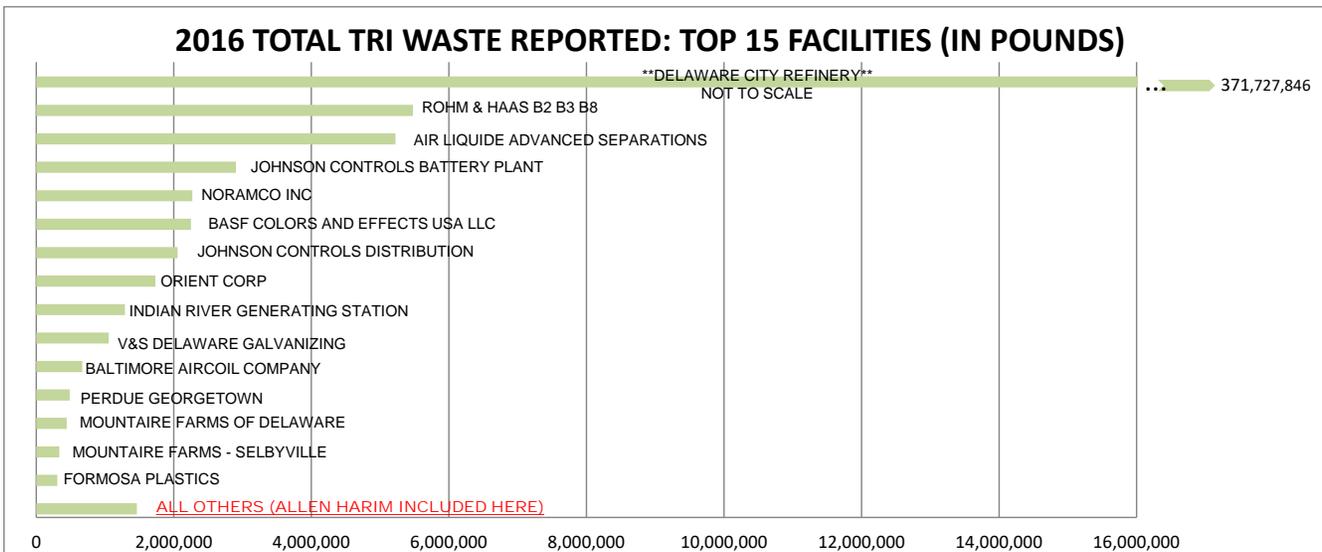
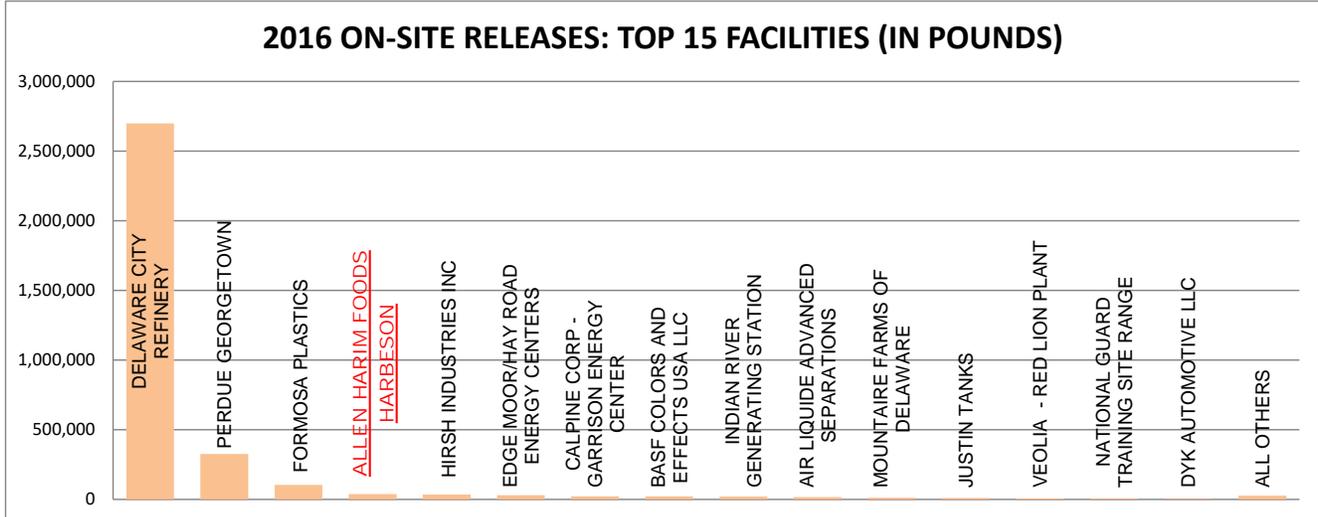
*Reported on Short Form A

GRAPHICAL INFORMATION:



ALLEN HARIM FOODS - HARBESON, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:





TRI FACILITY PROFILES

AMICK FARMS

LOCATION/CONTACT:

Address: 10281 Amick Drive
Delmar, DE 19940

Phone: (302) 846-9511

Contact: Richard Martinson



FACILITY OVERVIEW:

Amick Farms reported under the North American Industrial Classification System (NAICS) as 311119, which covers other animal food manufacturing (except facilities primarily engaged in Custom Grain Grinding for Animal Feed).

Amick Farms has owned and operated this facility, and reported to TRI, since 2010. Previous owner/operators Allens Milling Company and Delmar Hatchery filed TRI reports for this facility from 1995-2010. Amick Farms reported on three chemicals in 2016, copper compounds, manganese compounds, and zinc compounds, all on short Form A. Form A reports do not include waste management activities. Form A reports can be used if the chemical being reported is not a PBT chemical; the chemical has not been manufactured, processed, or otherwise used in excess of 1,000,000 lbs.; and, the total annual waste management (i.e., recycling, energy recovery, treatment, and disposal or other releases) of the chemical does not exceed 500 lbs. The metal compounds reported are used in poultry feed.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER COMPOUNDS*	0	0	0	0	0	0	NO	NO
MANGANESE COMPOUNDS*	0	0	0	0	0	0	NO	NO
ZINC COMPOUNDS*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILES

BALTIMORE AIRCOIL COMPANY

LOCATION/CONTACT:

Address: 1162 Holly Hill Road
Milford, DE 19963

Phone: (302) 424-2566

Contact: Angela Sheppard



FACILITY OVERVIEW:

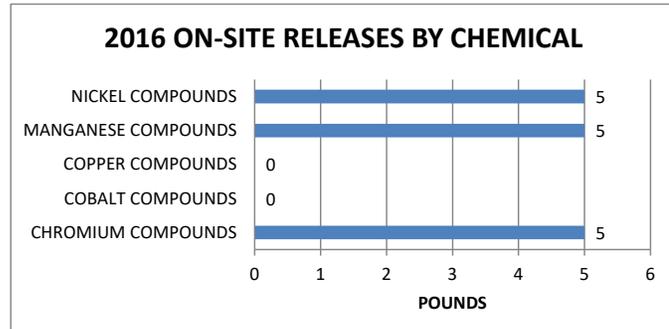
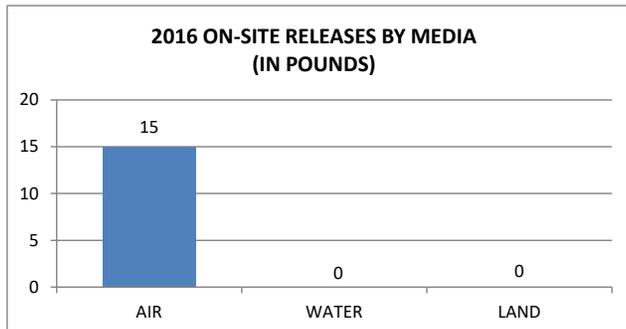
The Baltimore Aircoil Company reported under the North American Industrial Classification System (NAICS) as 333415, which covers air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing.

The Baltimore Aircoil Company has reported since 2011. The facility reported on five chemicals in 2016, with on-site releases only to air due to welding and laser cutting of metal. The chemicals were chromium, cobalt, copper, manganese, and nickel compounds. The chemicals that are reported are from scrap metal that is shipped off-site for recycling. Virtually all of the waste is shipped off-site for recycling, with less than 0.01% being released on-site. In 2015, they reduced the amount of waste sent off-site for recycling by 7% by improving the process to utilize sheet metal.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHROMIUM COMPOUNDS	5	0	0	5	231,411	0	NO	YES
COBALT COMPOUNDS	0	0	0	0	28,575	0	NO	YES
COPPER COMPOUNDS	0	0	0	0	35,603	0	NO	NO
MANGANESE COMPOUNDS	5	0	0	5	106,245	0	NO	NO
NICKEL COMPOUNDS	5	0	0	5	265,701	0	NO	YES
TOTAL	15	0	0	15	667,535	0		

GRAPHICAL INFORMATION:

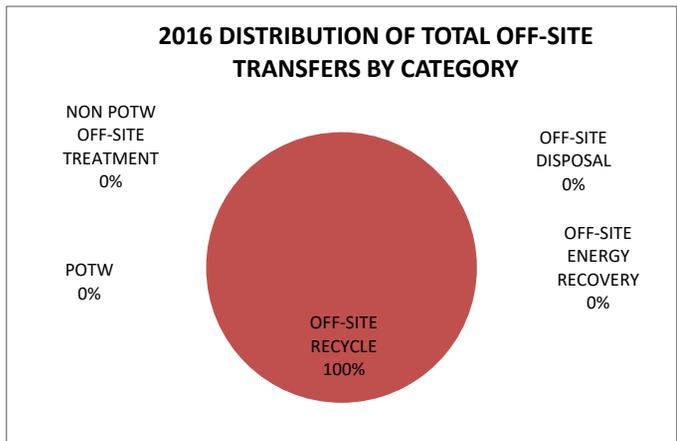
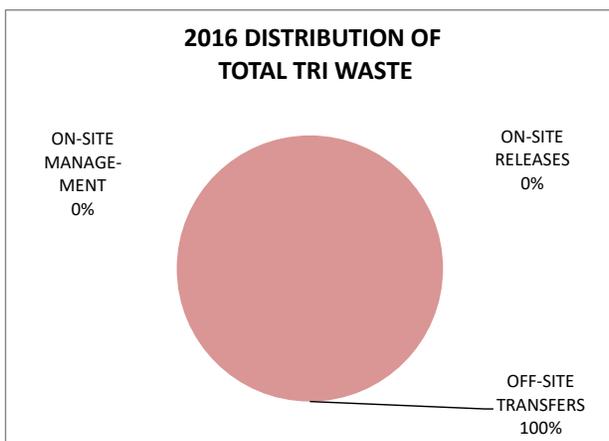
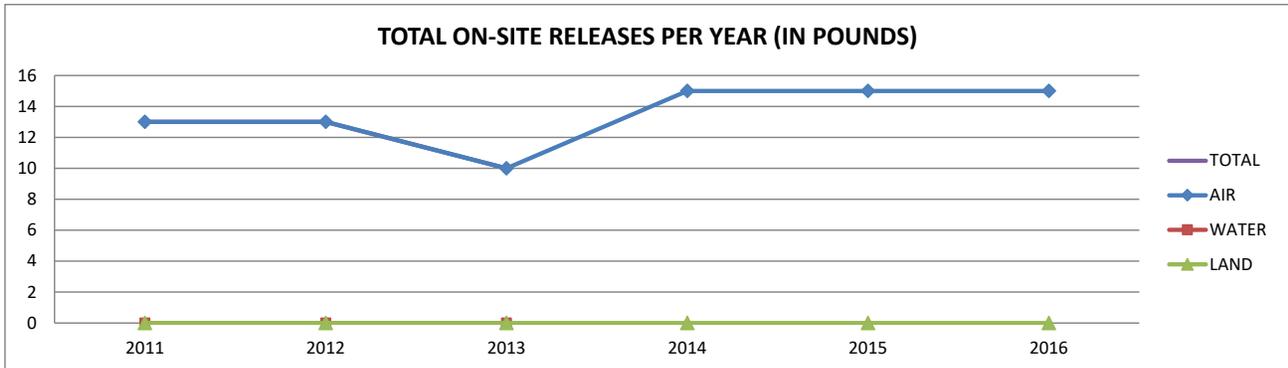


TRI FACILITY PROFILES

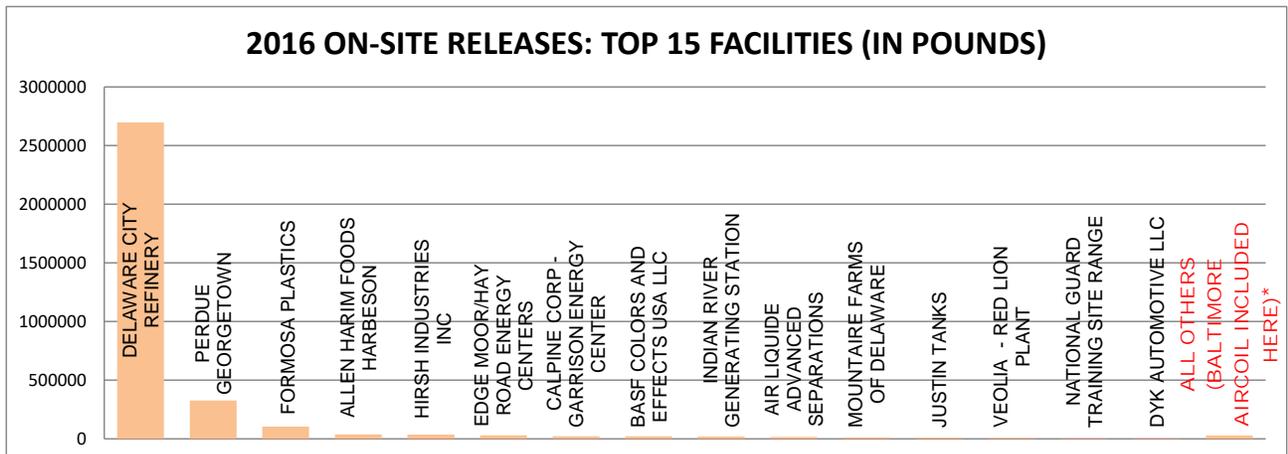


BALTIMORE AIRCOIL COMPANY, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



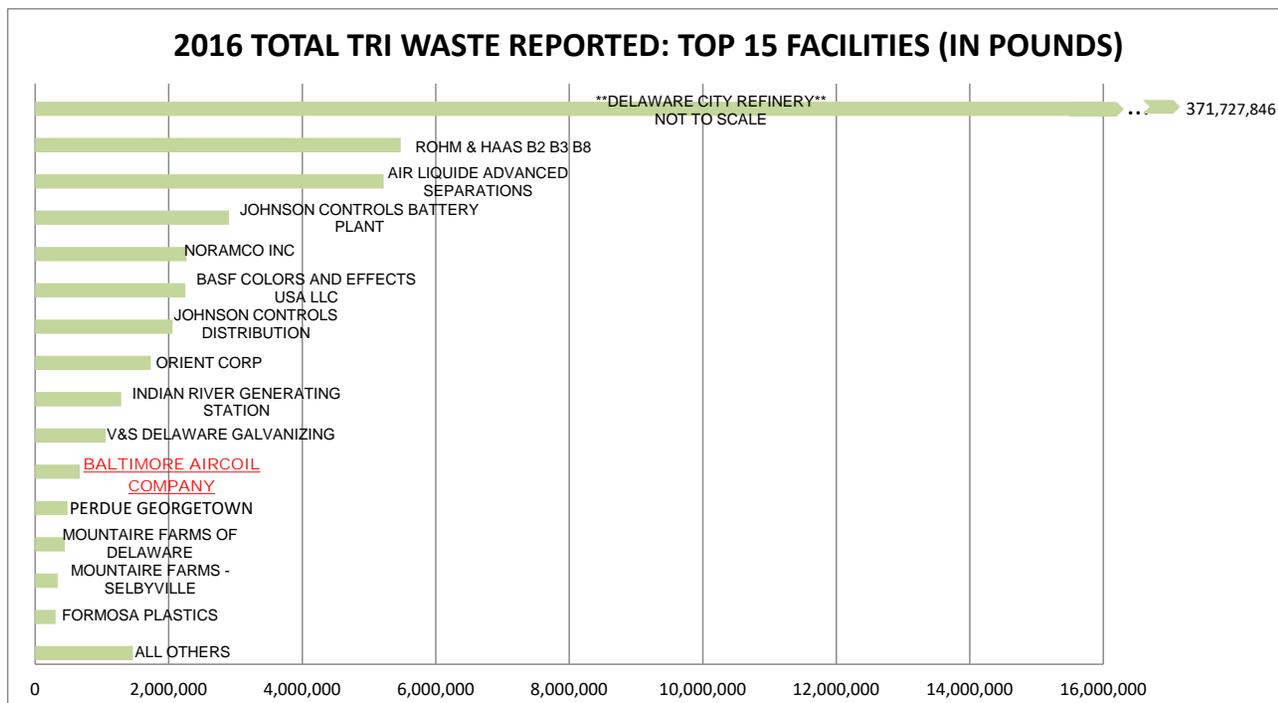
*The Baltimore Aircoil Company ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.



TRI FACILITY PROFILES

BALTIMORE AIRCOIL COMPANY, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:



NOTABLE 2016 NATIONAL RANKINGS:

The Baltimore Aircoil Company ranks 41st in the nation for off-site transfers of chromium compounds (out of 1,278 facilities).

The Baltimore Aircoil Company ranks 28th in the nation for off-site transfers of nickel compounds (out of 1,090 facilities).



TRI FACILITY PROFILES

BASF COLORS AND EFFECTS USA LLC

LOCATION/CONTACT:

Address: 205 South James Street
Newport, DE 19804

Phone: (970)-245-5230

Contact: Roberto Nelson



FACILITY OVERVIEW:

BASF Colors and Effects USA LLC manufactures high performance and effect pigments for the paint, plastic, and printing industries. The Newport site has reported since 1998, previously as BASF Corp, and as CIBA Specialty Chemicals. The Newport Site became part of BASF Corporation in April 2010. For 2016, the facility reported on nine chemicals, with the majority either being treated or recycled on or off-site, with about 1% being released on-site.

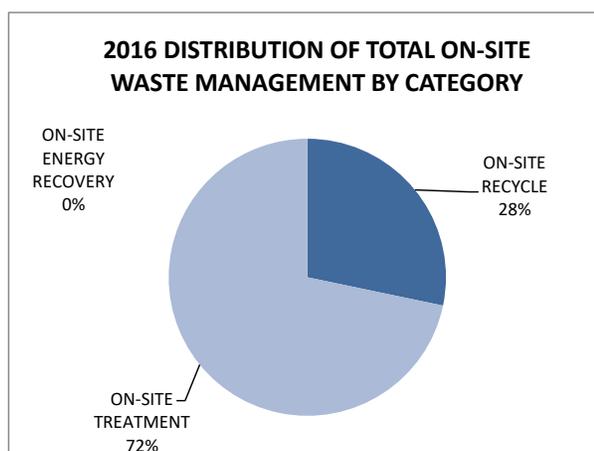
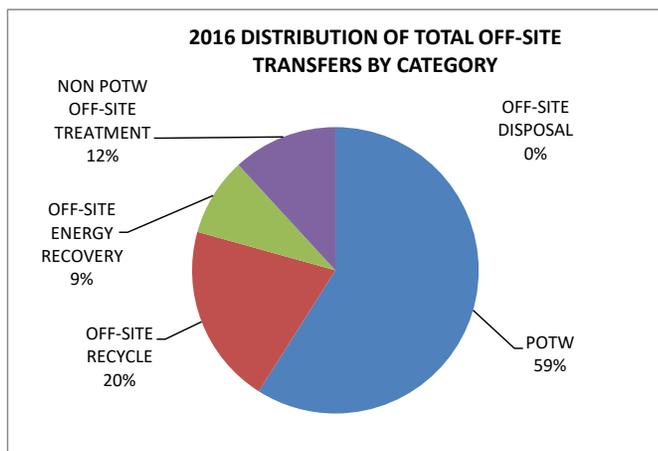
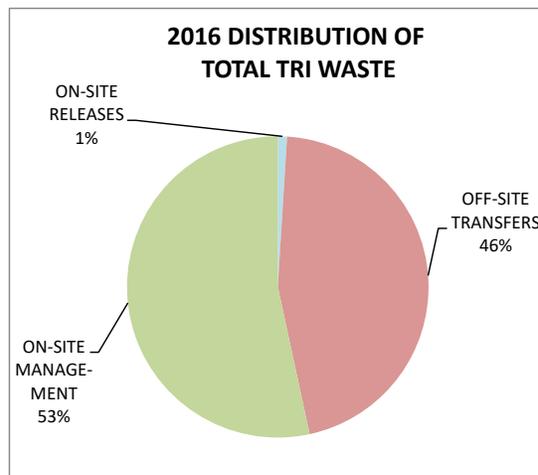
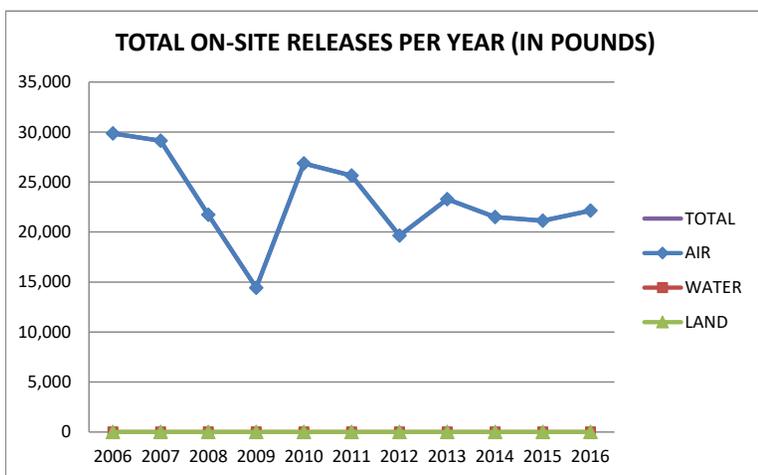
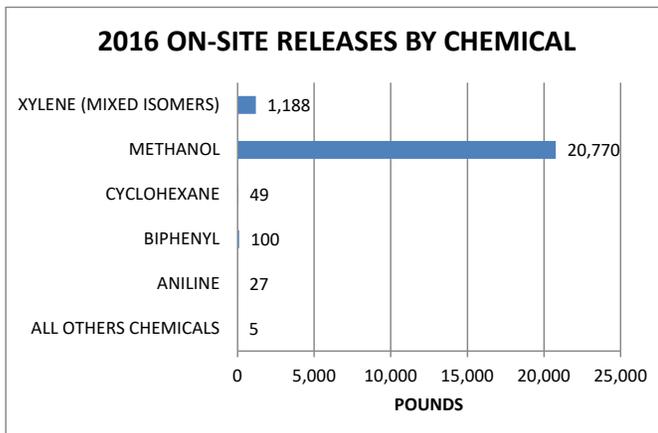
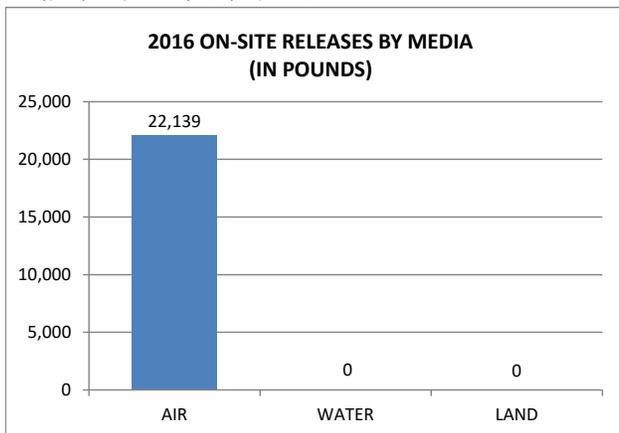
Methanol is the primary chemical released onsite after being processed through air pollution control devices. Methanol is utilized in pigment production while also being generated as a co/by-product in some of the same processes. Methanol is managed both on and off-site, with less than 1.4% being released on-site. The other TRI chemicals used on-site are either raw materials or process aids.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
ANILINE	27	0	0	27	20,070	1,352	NO	NO
BIPHENYL	100	0	0	100	91,054	2,321	NO	NO
CYCLOHEXANE	49	0	0	49	22,610	3,447	NO	NO
METHANOL	20,770	0	0	20,770	734,551	1,162,192	NO	NO
NITRATE COMPOUNDS	0	0	0	0	23,756	0	NO	NO
NITRIC ACID	0	0	0	0	0	24,139	NO	NO
N-METHYL-2-PYRROLIDONE	0	0	0	0	47,126	9	NO	NO
P-CHLOROANILINE	5	0	0	5	87,042	2,398	NO	YES
XYLENE (MIXED ISOMERS)	1,188	0	0	1,188	683	5,531	NO	NO
TOTAL	22,139	0	0	22,139	1,026,892	1,201,389		

BASF COLORS AND EFFECTS USA LLC, CONT.

GRAPHICAL INFORMATION:

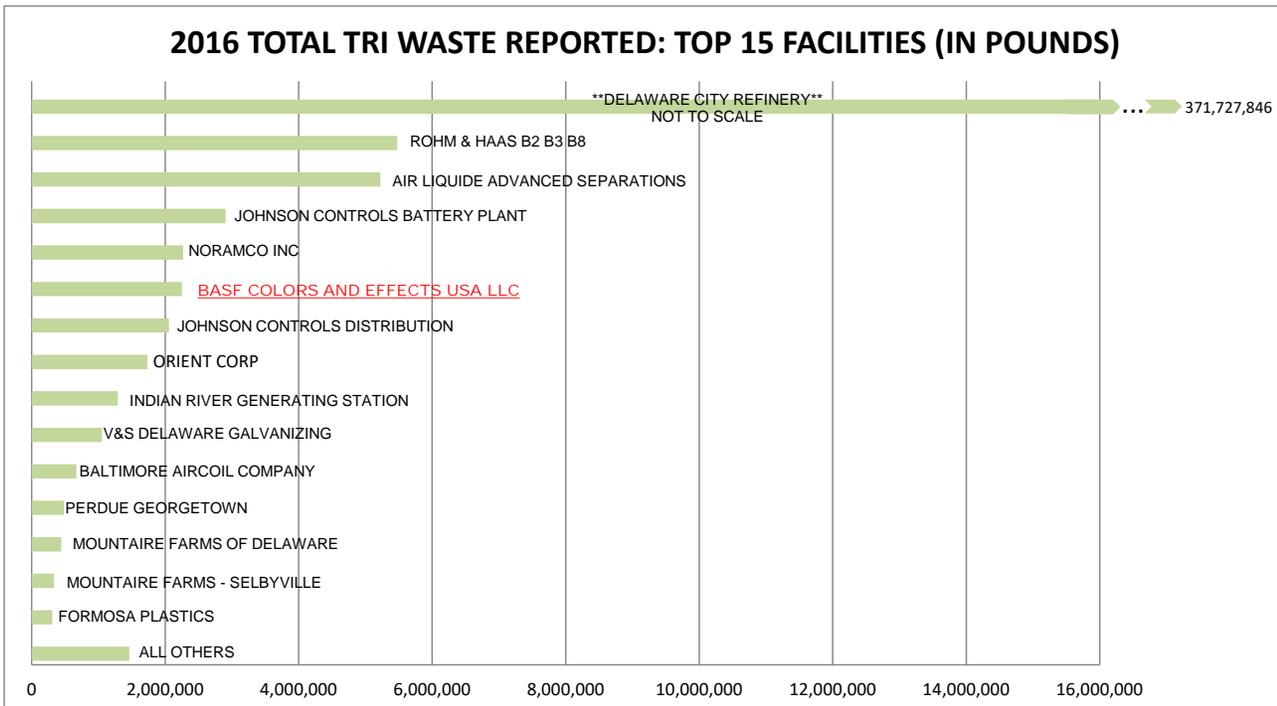
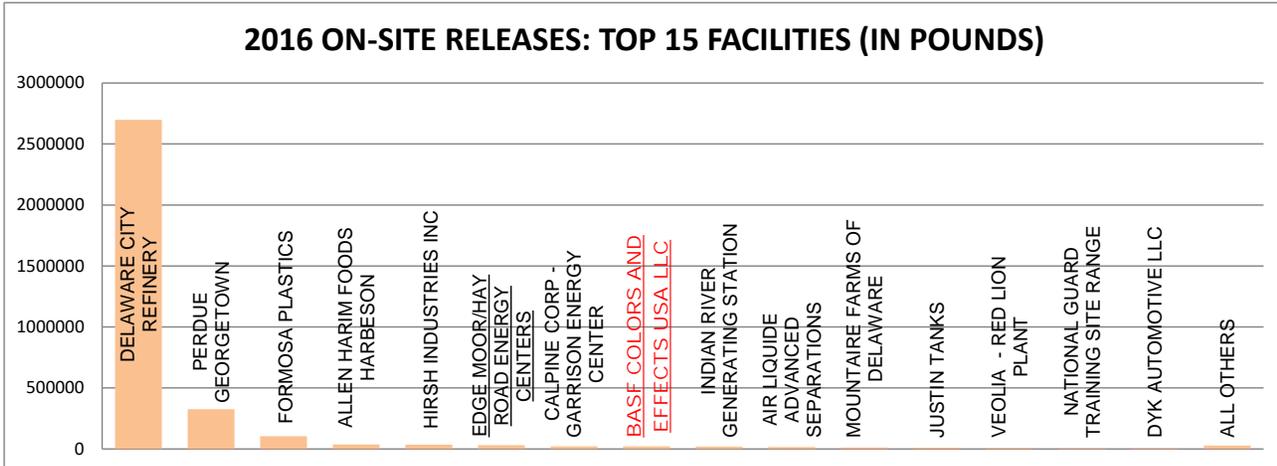




TRI FACILITY PROFILES

BASF COLORS AND EFFECTS USA LLC, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

BASF Colors and Effects USA LLC ranks 56th in the nation for off-site transfers of methanol (out of 2,171 facilities).

BASF Colors and Effects USA LLC ranks 57th in the nation for on-site recycling for methanol (out of 2,171 facilities).

BASF Colors and Effects USA LLC ranks 3rd in the nation for off-site transfers of biphenyl (out of 114 facilities).

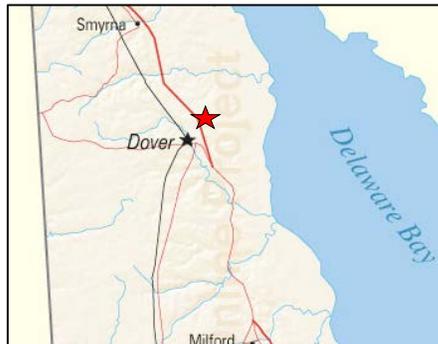
CALPINE CORP-GARRISON ENERGY CENTER

LOCATION/CONTACT:

Address: 450 Garrison Oak Drive
Dover, DE 19901

Phone: (302)-257-3570

Contact: Gerald Kissel



FACILITY OVERVIEW:

Calpine Corporation’s Garrison Energy Center reported under the North American Industrial Classification System (NAICS) as 221112, which covers fossil fuel electric power generation.

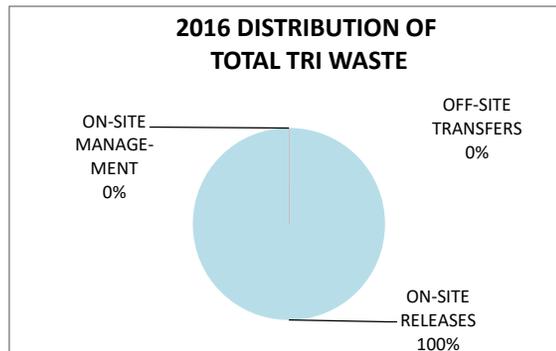
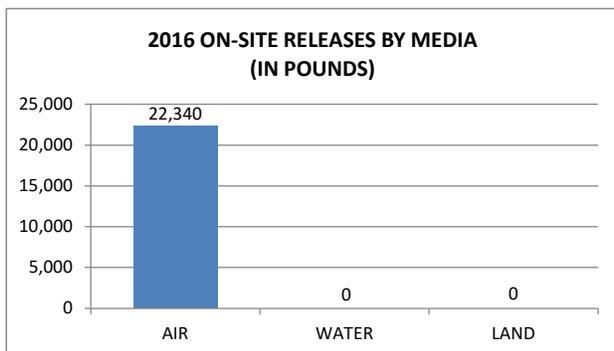
The Garrison Energy Center reported to TRI for the first time for 2016. This 309-megawatt natural gas-fired, combined cycle electric generating facility is located in the Garrison Oak Technological Park in Dover. The plant employs highly efficient combined-cycle technology with advanced environmental controls.

The Garrison Energy Center reported on four chemicals in 2016. Ammonia and n-hexane were reported on the long form, with only on-site releases to air reported for these two chemicals. Naphthalene and 1,2,4-trimethylbenzene were reported on short form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 lbs. to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE	0	0	0	0	0	0	NO	NO
AMMONIA	3,991	0	0	3,991	0	0	NO	NO
NAPHTHALENE	0	0	0	0	0	0	NO	YES
N-HEXANE	18,349	0	0	18,349	0	0	NO	NO
TOTAL	22,340	0	0	22,340	0	0		

GRAPHICAL INFORMATION:

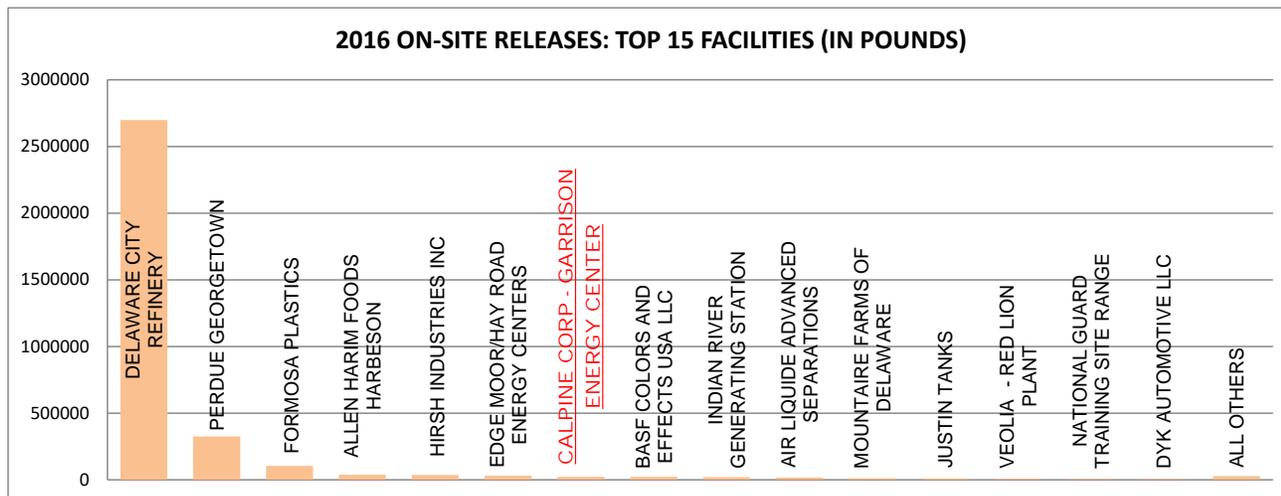


TRI FACILITY PROFILES



CALPINE CORP-GARRISON ENERGY CENTER, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:





TRI FACILITY PROFILES

COLOR WORKS PAINTING

LOCATION/CONTACT:

Address: 251 Edwards Ave
New Castle, DE 19720

Phone: (302)324-8411

Contact: Sean Histed



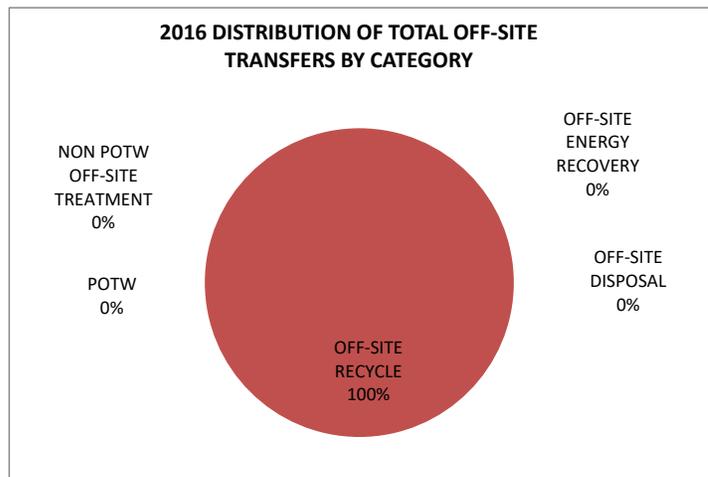
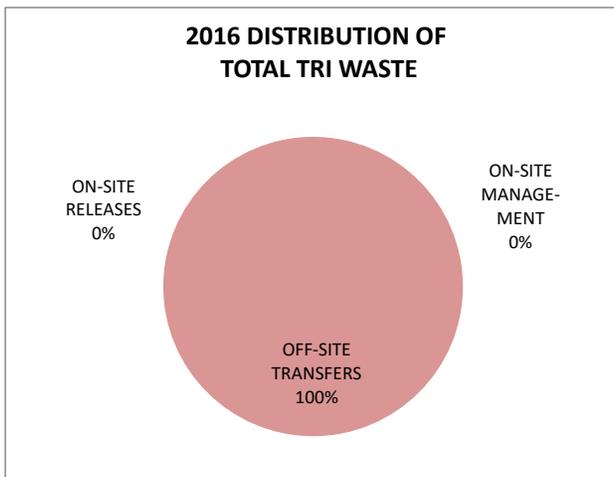
FACILITY OVERVIEW:

Color Works Painting reported under the North American Industrial Classification System (NAICS) as 332812, which covers metal coating, engraving, and allied services to manufacturers. Color Works reported on one chemical in 2016, manganese. There were no reported on-site releases, with all waste being sent off-site for recycling.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
MANGANESE	0	0	0	0	1,086	0	NO	NO
TOTAL	0	0	0	0	1,086	0		

GRAPHICAL INFORMATION:



TRI FACILITY PROFILES



COLOR WORKS PAINTING, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Color Works Painting ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

Color Works Painting ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

CRODA

LOCATION/CONTACT:

Address: 315 Cherry Lane
New Castle, DE 19720

Phone: (302) 429-5320

Contact: Chris Barnett



FACILITY OVERVIEW:

Croda manufactures products, known as surfactants, that promote the mixing of oil and water based ingredients in many consumer products, such as baby shampoo, shaving cream, mouthwash, pharmaceuticals, and many other personal care and industrial products.

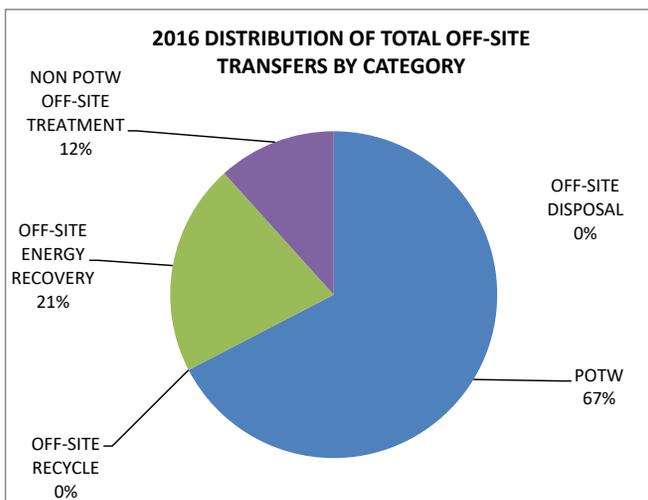
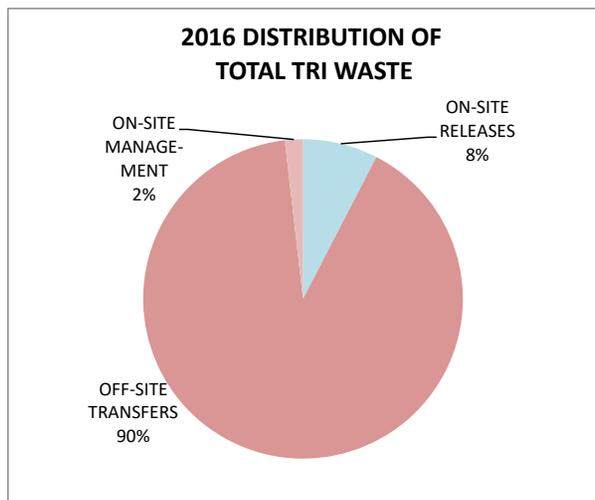
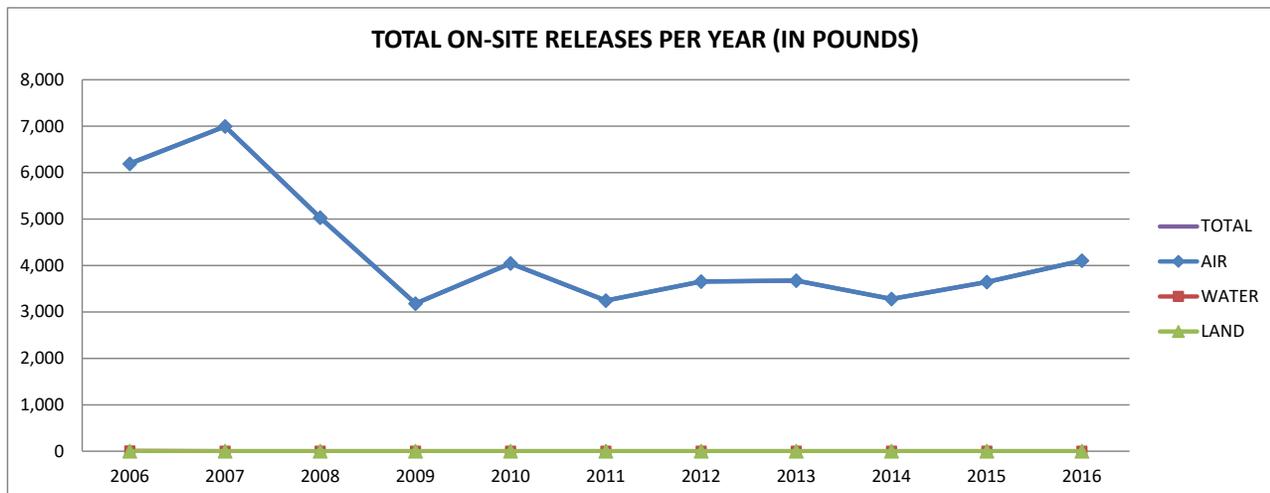
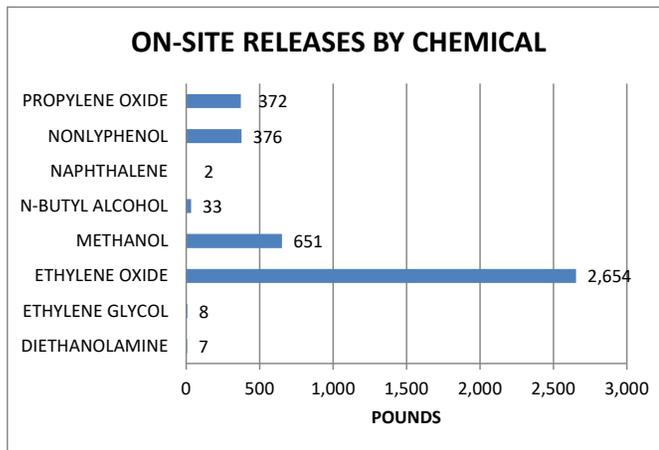
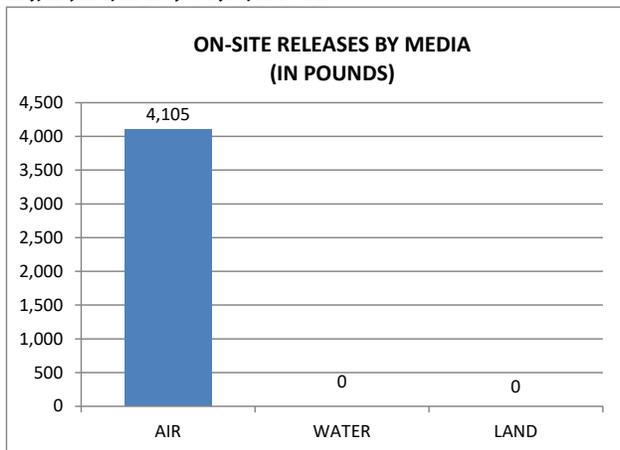
The facility has reported since 1987, previously as ICI Atlas Point and Uniqema, with Croda International acquiring Uniqema in 2006. Croda reported on nine chemicals for 2016. All on-site releases were to air, with the largest being ethylene oxide. The majority of chemicals reported are primarily utilized as ingredients in the facility's products.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CERTAIN GLYCOL ETHERS	1	0	0	1	3,915	0	NO	NO
DIETHANOLAMINE	7	0	0	7	1,678	0	NO	NO
ETHYLENE GLYCOL	8	0	0	8	19,460	0	NO	NO
ETHYLENE OXIDE	2,654	0	0	2,654	0	445	NO	YES
METHANOL	651	0	0	651	16,573	0	NO	NO
N-BUTYL ALCOHOL	33	0	0	33	554	0	NO	NO
NAPHTHALENE	2	0	0	2	4,687	0	NO	YES
NONLYPHENOL	376	0	0	376	2,079	0	NO	NO
PROPYLENE OXIDE	372	0	0	372	0	539	NO	YES
TOTAL	4,105	0	0	4,105	48,946	984		

CRODA, CONT.

GRAPHICAL INFORMATION:

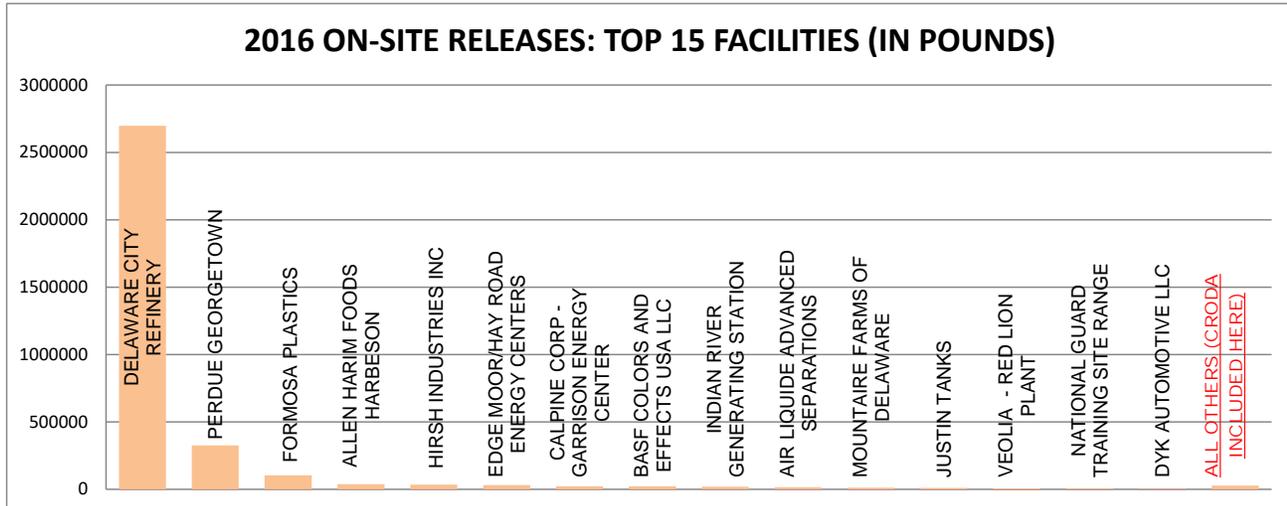




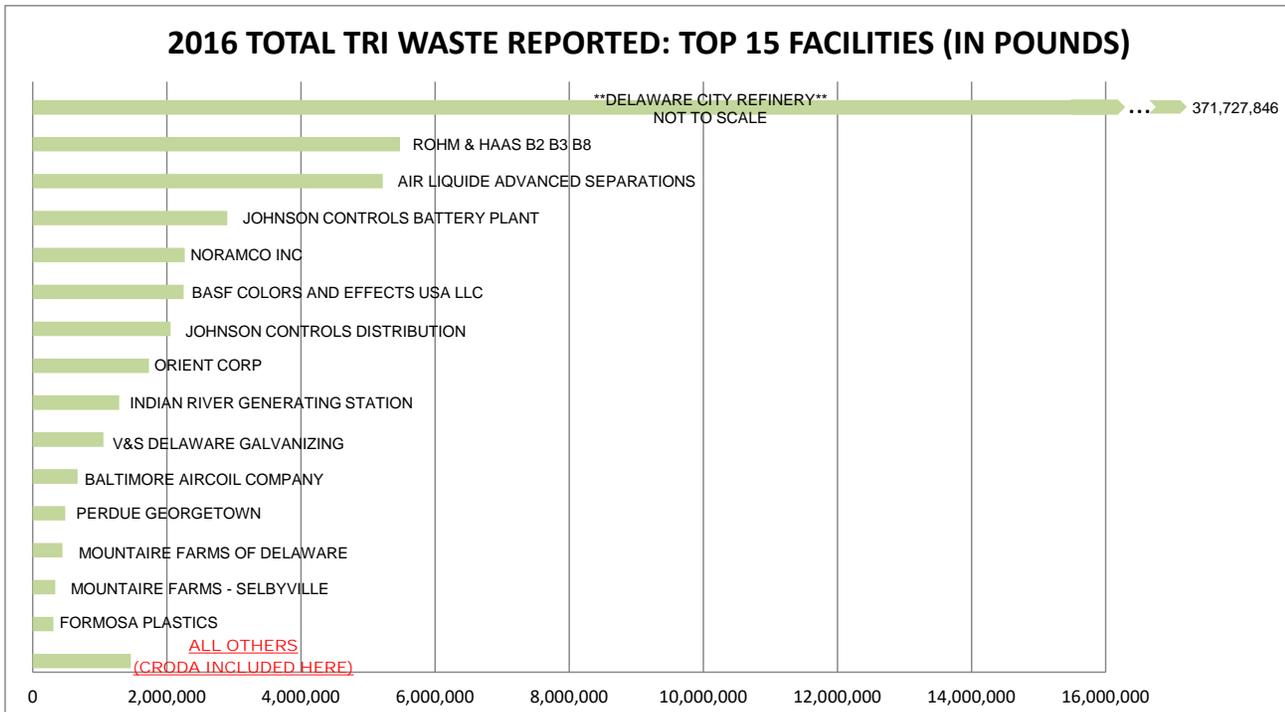
TRI FACILITY PROFILES

CRODA, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Croda ranks 30th in the nation for on-site releases of ethylene oxide (out of 118 facilities).

Croda ranks 39th in the nation for on-site releases of propylene oxide (out of 97 facilities).



TRI FACILITY PROFILES

DELAWARE CITY REFINERY

LOCATION/CONTACT:

Address: 4550 Wrangle Hill Road
Delaware City, DE 19706

Phone: (302)-834-6033

Contact: Lisa Lindsey



FACILITY OVERVIEW:

The Delaware City Refinery refines crude oil into automotive gasoline, diesel fuel, home heating oil, and a variety of other petroleum and energy products. In June of 2010, the Delaware City Refining Company LLC purchased the facility from Valero after the refinery had been idled in November 2009. The refinery began restarting process unit operations in mid-2011 following extensive maintenance activity, and has been fully operational since.

For purposes of the 2016 reporting year, the refinery reported on 39 chemicals, with 2.7 million pounds being released on-site. The largest two contributors to on-site releases were the 2.45 million pounds of nitrate compounds released to water and 207,808 pounds of sulfuric acid aerosol, accounting for 98.5% of all on-site releases. Nitrogen, a naturally occurring compound in all crude oil, is removed during the refining process creating ammonia (NH₃), which is processed at the Sulfur Recovery Unit and residual quantities are treated at the refinery's wastewater treatment. This ammonia is treated via nitrification at the treatment plant, creating the nitrate compounds that are released to water.

Sulfuric acid mist emissions are released from combustion units at the refinery including process heaters, boilers and combustion turbines. When a sulfur-bearing fuel such as refinery fuel gas is burned, the sulfur is initially converted to Sulfur dioxide (SO₂). Under certain conditions, a small portion of the SO₂ converts to Sulfur Trioxide (SO₃). A fraction of the SO₃ can undergo a further reaction to form sulfuric acid aerosol. Sulfuric acid mist emissions vary from year to year.

On-site releases for the refinery are down 27.6% compared to 2015. This was primarily due to the decrease of nitrate compounds being released to water, which are down 914,052 pounds compared to 2015. Nitrate releases vary from year to year (see *Total On-site Releases Per Year Graph* on the next page).

The refinery reported almost 369 million pounds of chemicals managed on-site, via treatment and energy recovery. The largest of amount reported was hydrogen sulfide with over 336 million pounds treated on-site. Hydrogen sulfide is a gas that is produced during the petroleum refining process that is treated and converted to elemental sulfur by sulfur recovery processes, a material that is sold for agricultural and chemical manufacturing uses.

Aqueous Ammonia is utilized as a reactant for several combustion treatment processes, such as the Selective Catalytic Reduction (SCR) and Selective Non-catalytic Reduction (SNCR) controls. These controls are utilized at the refinery to reduce NO_x emissions from sources such as process heaters, package boilers and the Fluid Coking Unit CO boiler. Over 12 million pounds of ammonia is treated on site, with 0.2 percent being released on-site to air and water.

TRI FACILITY PROFILES



DELAWARE CITY REFINERY, CONT.

An off-site transfer of asbestos for disposal (85,321 pounds) was recorded in 2016 related to asbestos remediation and abatement activities performed by the refinery.

2016 TRI DATA (REPORTED IN POUNDS):

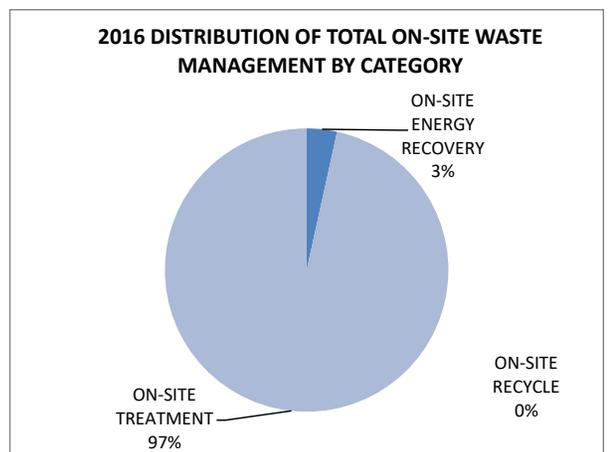
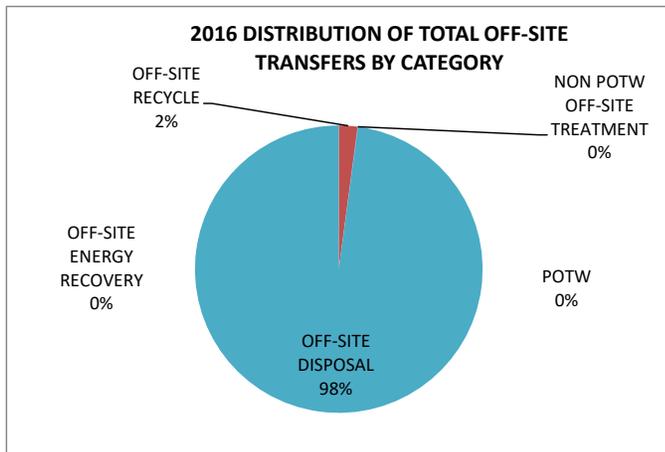
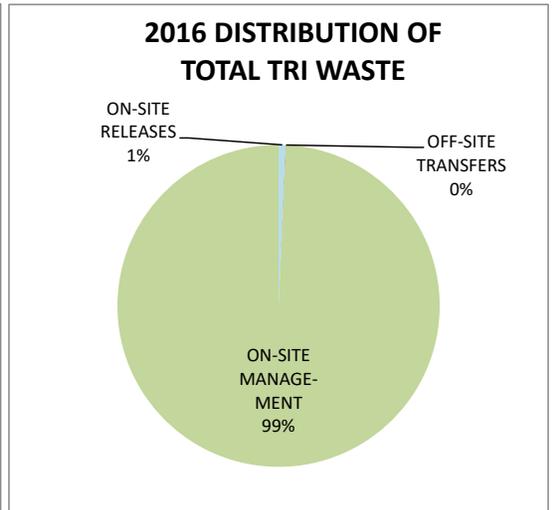
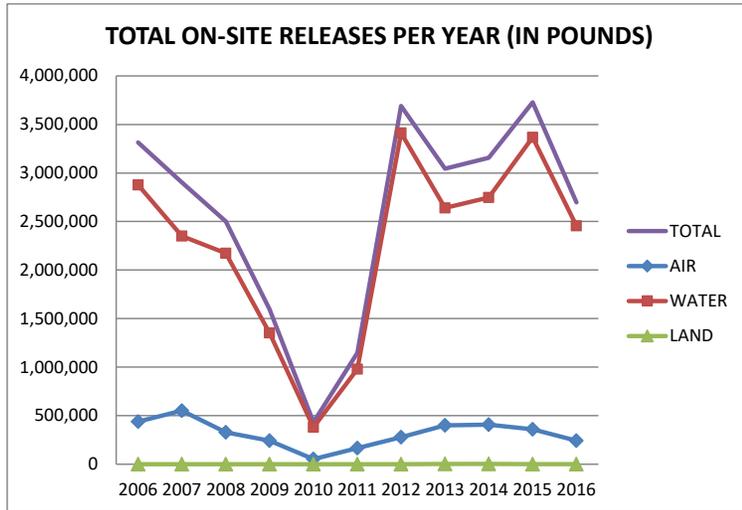
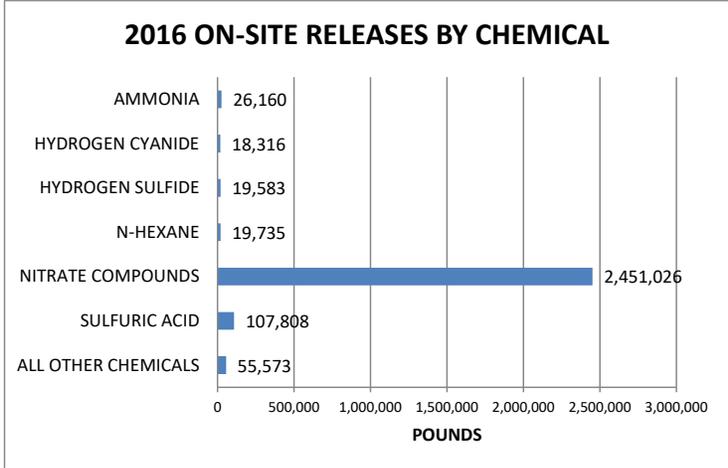
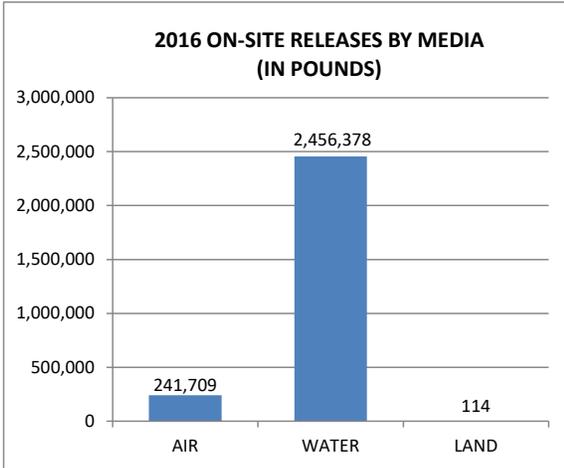
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE	798	5	0	803	0	65,634	NO	NO
1,3-BUTADIENE	273	0	0	273	0	0	NO	YES
2,4-DIMETHYLPHENOL	0	165	0	165	0	231,669	NO	NO
AMMONIA	23,677	2,483	0	26,160	4	12,241,628	NO	NO
ANTHRACENE	0	5	0	5	0	0	NO	NO
ASBESTOS (FRIABLE)	0	0	0	0	85,321	0	NO	YES
BENZENE	6,320	10	0	6,330	68	347,295	NO	YES
BENZO(G,H,I)PERYLENE	1	5	0	5	0	453	YES	NO
CARBON DISULFIDE	1,055	0	0	1,055	0	4,167,176	NO	NO
CARBONYL SULFIDE	632	0	0	632	0	13,573,372	NO	NO
COBALT	39	210	0	249	3	0	NO	NO
CREOSOTE	20	0	114	134	40,449	0	NO	YES
CRESOL (MIXED ISOMERS)	0	330	0	330	0	359,307	NO	NO
CUMENE	3,167	5	0	3,172	0	3,928	NO	NO
CYANIDE COMPOUNDS	0	145	0	145	0	14,394	NO	NO
CYCLOHEXANE	1,885	5	0	1,890	1	7,272	NO	NO
DIOXIN AND DIOXIN-LIKE COMPOUNDS	0.001263	0.000000	0.000000	0.001263	0.000000	0.001263	YES	NO
ETHYLBENZENE	1,790	5	0	1,795	10	52,239	NO	YES
ETHYLENE	5,760	0	0	5,760	0	0	NO	NO
HYDROCHLORIC ACID	164	0	0	164	0	105,456	NO	NO
HYDROGEN CYANIDE	18,113	203	0	18,316	0	488,107	NO	NO
HYDROGEN SULFIDE	19,582	1	0	19,583	0	336,301,707	NO	NO
LEAD COMPOUNDS	95	2	0	97	112	0	YES	YES
MERCURY COMPOUNDS	98.0100	1.5000	0.0000	99.5100	0.2060	0.0000	YES	NO
METHANOL	4,840	5	0	4,845	0	1,985	NO	NO
MOLYBDENUM TRIOXIDE	13	0	0	13	1	0	NO	NO
N-HEXANE	19,730	5	0	19,735	0	163,268	NO	NO
NAPHTHALENE	1,962	0	0	1,962	0	12,551	NO	YES
NICKEL COMPOUNDS	1,684	1,573	0	3,257	2,655	0	NO	YES
NITRATE COMPOUNDS	0	2,451,026	0	2,451,026	0	0	NO	NO
PHENANTHRENE	1	5	0	6	0	40	NO	NO
PHENOL	135	165	0	300	0	327,924	NO	NO
POLYCYCLIC AROMATIC COMPOUNDS	204	4	0	208	0	372	YES	YES
PROPYLENE	4,907	0	0	4,907	0	0	NO	NO
STYRENE	9	5	0	14	0	1,127	NO	YES
SULFURIC ACID	107,808	0	0	107,808	0	0	NO	NO
TETRACHLOROETHYLENE	4	0	0	4	0	0	NO	YES
TOLUENE	12,011	5	0	12,016	88	221,265	NO	NO
XYLENE (MIXED ISOMERS)	4,931	5	0	4,936	592	212,170	NO	NO
TOTAL	241,709	2,456,378	114	2,698,200	129,306	368,900,339		



TRI FACILITY PROFILES

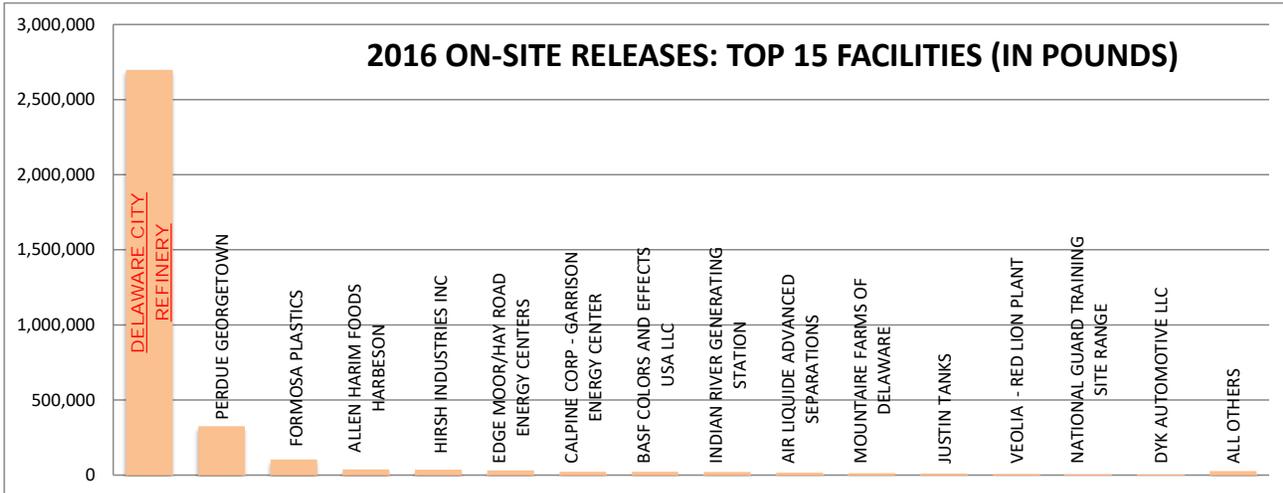
DELAWARE CITY REFINERY, CONT.

GRAPHICAL INFORMATION:



DELAWARE CITY REFINERY, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Delaware City Refinery ranks 13th in the nation for on-site releases of nitrate compounds (out of 2,203 facilities).

Delaware City Refinery ranks 1st in the nation for total waste managed and for total on-site treatment of hydrogen sulfide (out of 508 facilities).

Delaware City Refinery ranks 118th in on-site releases of sulfuric acid aerosols (out of 662 facilities).

Delaware City Refinery ranks 7th in off-site transfers of asbestos (friable) (out of 38 facilities).



TRI FACILITY PROFILES

DENTSPLY SIRONA MAIN PLANT

LOCATION/CONTACT:

Address: 38 West Clarke Ave.
Milford, DE 19963

Phone: (302) 422-4511

Contact: Jesse Bautista



FACILITY OVERVIEW:

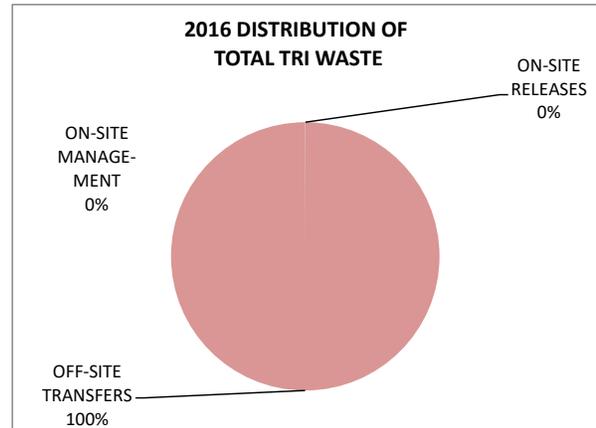
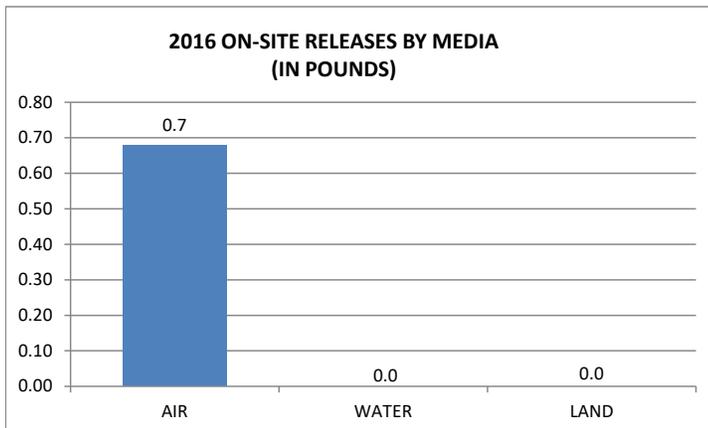
Dentsply Sirona produces a line of consumable products for the dental industry. These products include dental adhesives, dental impression materials, and restoratives. These products are used in dental maintenance and restoration applications.

The facility has reported since 1987, previously as Dentsply Main Plant, L. D. Caulk, and Dentsply Caulk Lakeview. For 2016, the Dentsply Sirona Main Plant reported on one chemical, mercury. Virtually all of their mercury is used in their products or recycled (1,979 pounds recycled), with reported on-site mercury releases to air of 0.68 pounds.

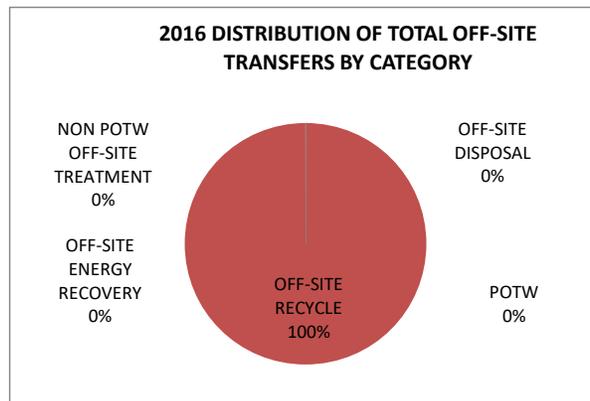
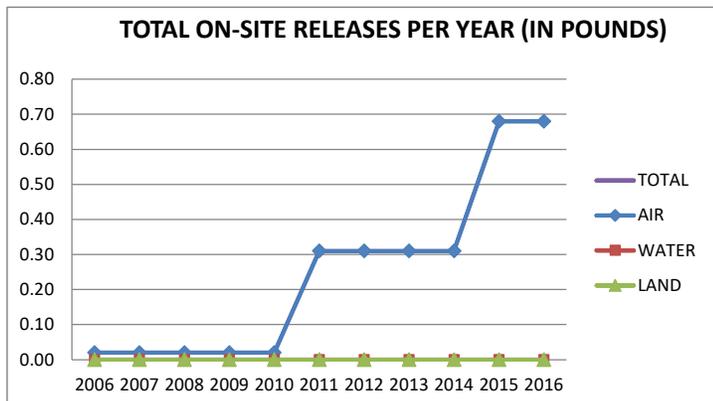
2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
MERCURY	0.6800	0.0000	0.0000	0.6800	1,979.0000	0.0000	YES	NO
TOTAL	0.7	0.0	0.0	1	1,979	0		

GRAPHICAL INFORMATION:



DENTSPLY SIRONA MAIN PLANT, CONT.



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

The Dentsply Sirona Main Plant ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

The Dentsply Sirona Main Plant ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

The Dentsply Sirona Main Plant ranks 10th in the nation for off-site transfers of mercury (out of 379 facilities).



TRI FACILITY PROFILES

DENTSPLY SIRONA WEST

LOCATION/CONTACT:

Address: 779 E Masten Circle
Milford, DE 19963

Phone: (302) 422-4511

Contact: Jesse Bautista



FACILITY OVERVIEW:

Dentsply Sirona produces a line of consumable products for the dental industry. These products include dental adhesives, dental impression materials, and restoratives. These products are used in dental maintenance and restoration applications. Dentsply Sirona’s East Masten Circle facility (Dentsply Sirona West) and the West Clarke Avenue facility (Dentsply Sirona Main) are located in Milford.

The facility has reported since 1987, previously as Dentsply West Plant, L. D. Caulk, and Dentsply Caulk West Milford. The Dentsply Sirona West Plant reported three TRI chemicals for 2016, methanol, methyl methacrylate (MMA), and toluene. Methanol is used as a processing aid in the manufacture of polymethacrylates. Methyl methacrylate (MMA) is also used in the manufacture of polymethacrylates. Toluene is used for cleaning. All on-site releases were reported as released to air.

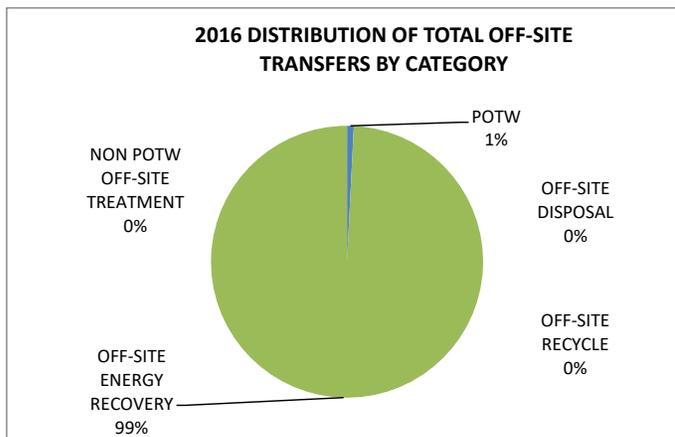
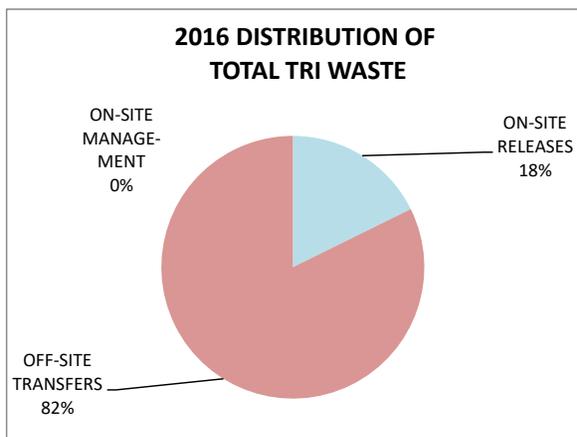
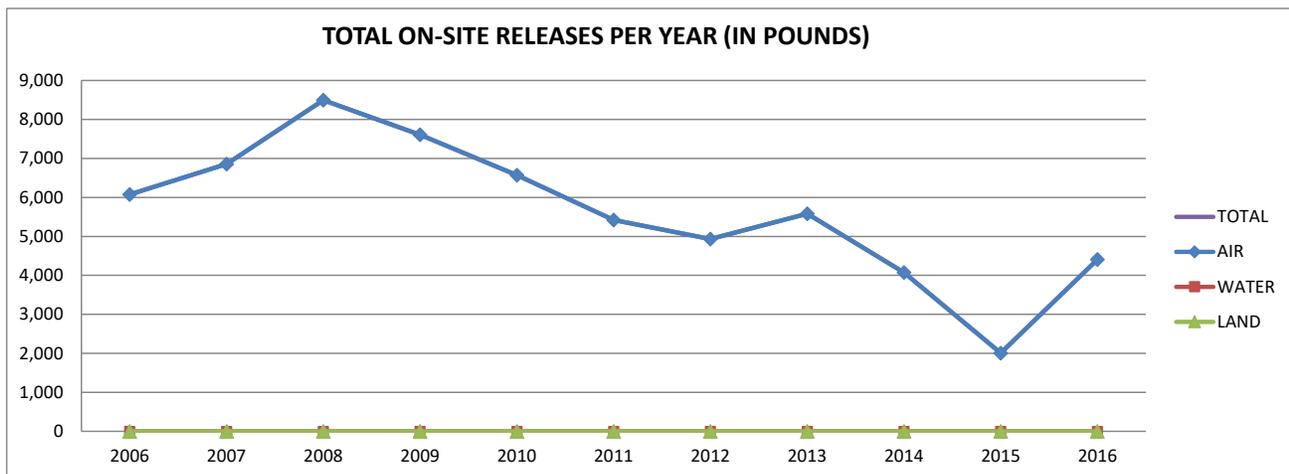
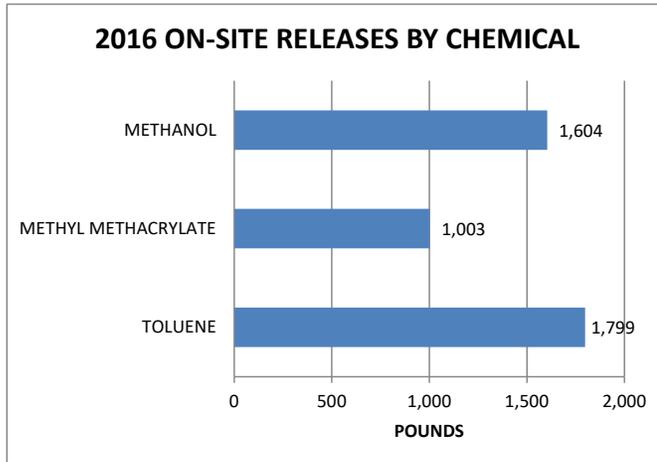
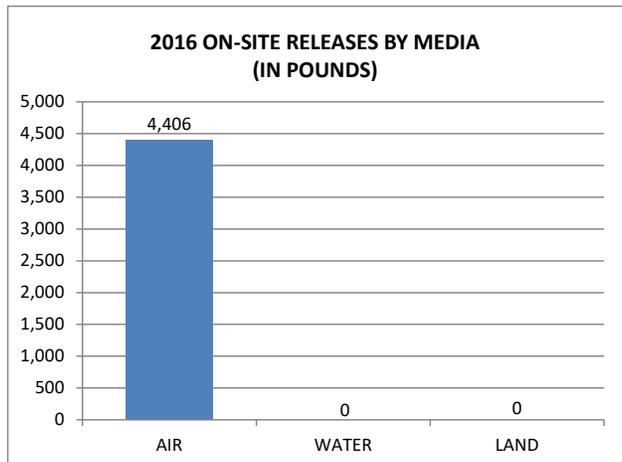
For 2016, on-site releases increased 119% over 2015 (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
METHANOL	1,604	0	0	1,604	9,959	0	NO	NO
METHYL METHACRYLATE	1,003	0	0	1,003	87	0	NO	NO
TOLUENE	1,799	0	0	1,799	10,433	0	NO	NO
TOTAL	4,406	0	0	4,406	20,479	0		

DENTSPLY SIRONA WEST, CONT.

GRAPHICAL INFORMATION:

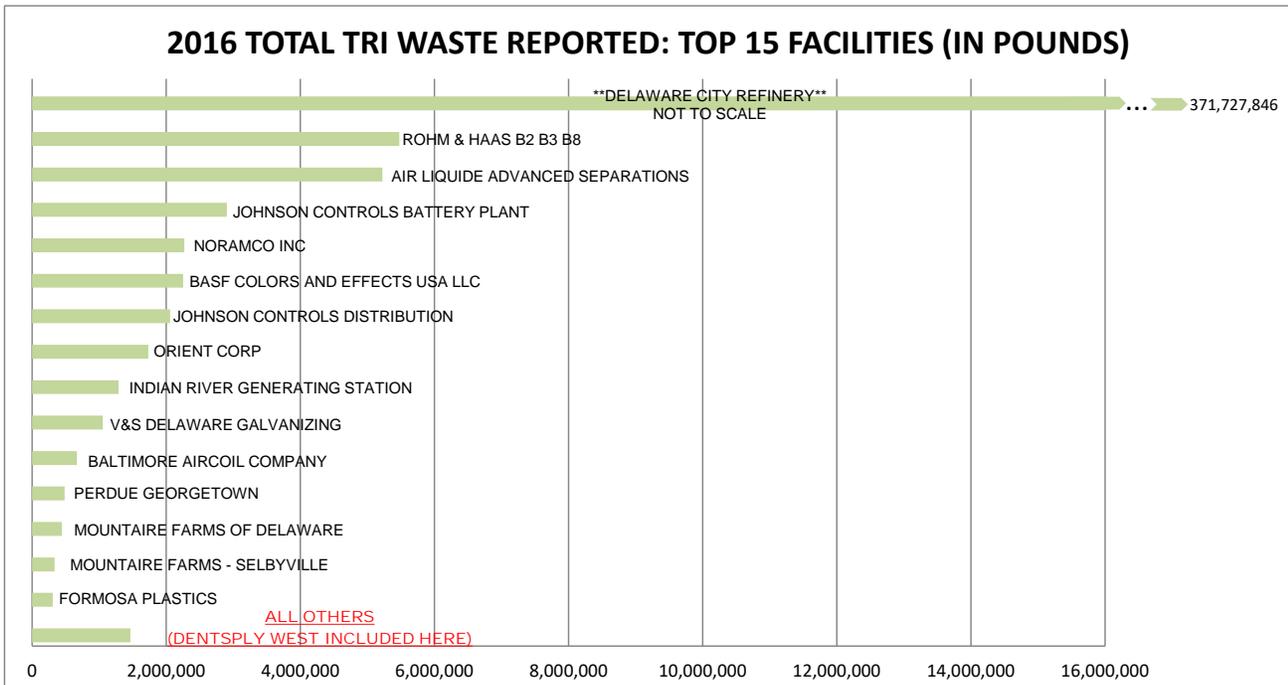
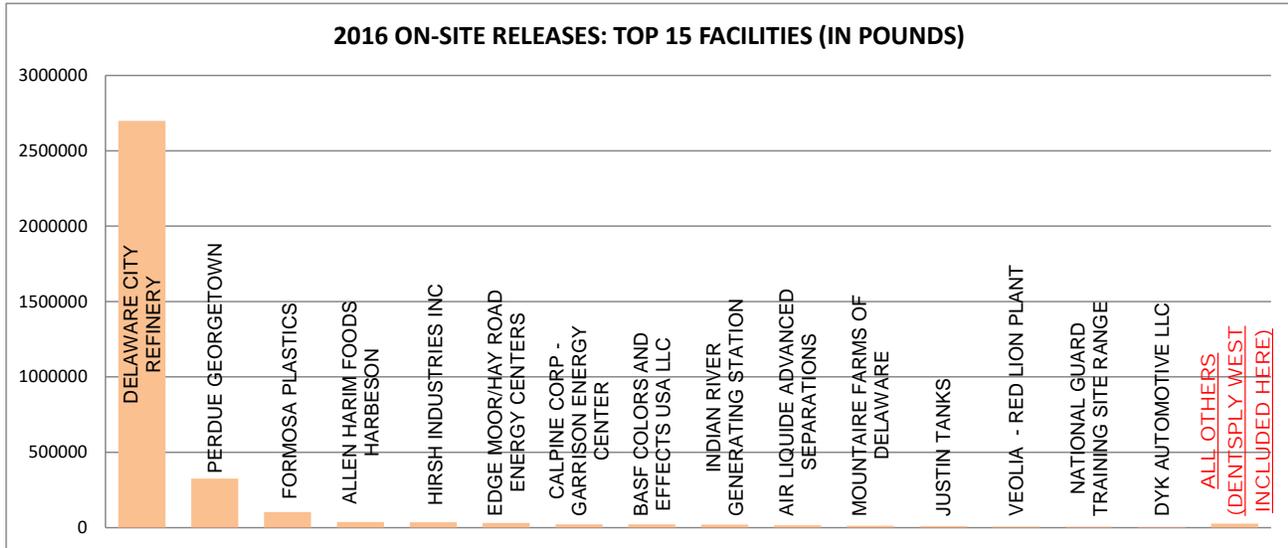




TRI FACILITY PROFILES

DENTSPLY SIRONA WEST, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:





TRI FACILITY PROFILES

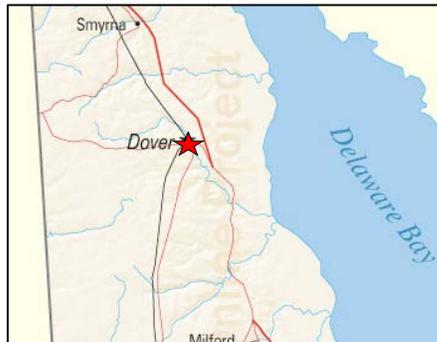
DOVER AIR FORCE BASE

LOCATION/CONTACT:

Address: 436 CES/CC 600 Chevron Ave.
Dover Air Force Base, DE 19902

Phone: (302) 677-3370

Contact: Jennifer Vallee



FACILITY OVERVIEW:

The Dover Air Force Base (DAFB) is a military installation that falls under the federal facility reporting requirements. DAFB is home to the 436th Airlift Wing, commonly known as the "Eagle Wing" and the 512th Airlift Wing, the Reserve associate, as the "Liberty Wing." Dover houses the C-5 Galaxy and C-17 Globemaster III, large transport military aircraft. Team Dover's mission focus is to safely fix and fly aircraft, prepare and deploy Airmen, move cargo, and return America's fallen heroes with dignity, honor and respect.

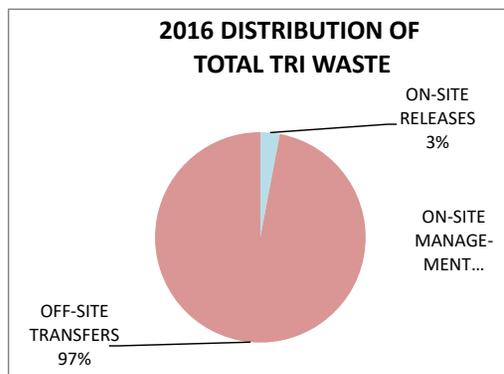
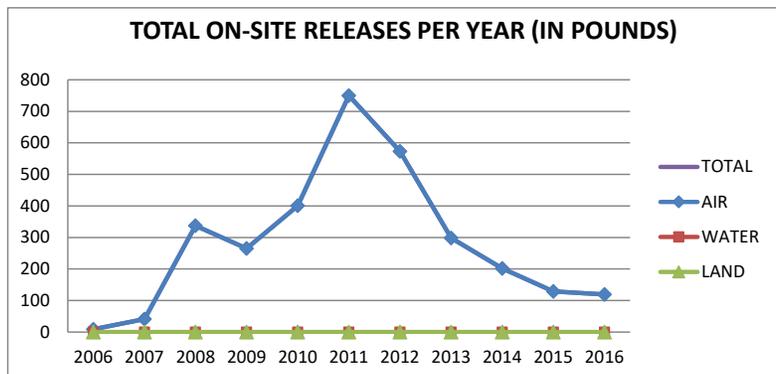
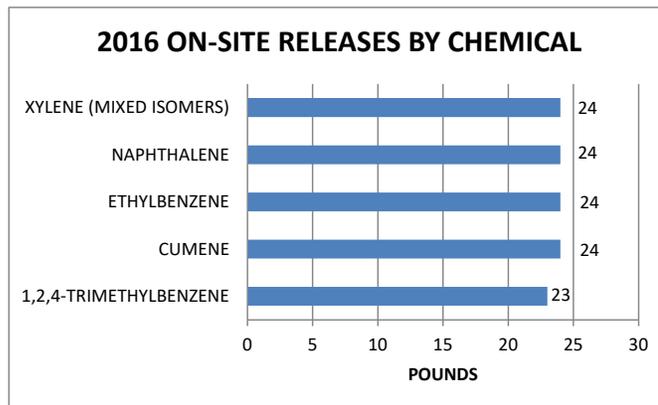
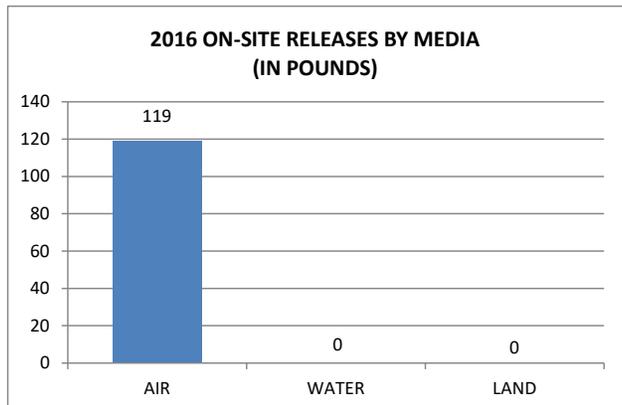
Dover Air Force Base (DAFB) has reported to TRI since 2001. For 2016, the facility reported on six chemicals (naphthalene; xylene; 1,2,4-Trimethylbenzene; cumene; ethylbenzene; and lead), with all on-site releases being made to air. These chemicals are the by-product of jet fuel being used on DAFB, except for lead which is from ammunition. The reported TRI data is from the fuel utilized by transient aircraft stopping at DAFB, and the depot level maintenance taking place at the Jet Engine Test Cell. Transient vehicles include only vehicles stopping at the installation for fuel or rest, and that have no assigned mission at the facility. Vehicles with an assigned mission at the base fall under the motor-vehicle reporting exemption. On-site releases to air are down by 8% compared to 2015.

2016 TRI DATA (REPORTED IN POUNDS):

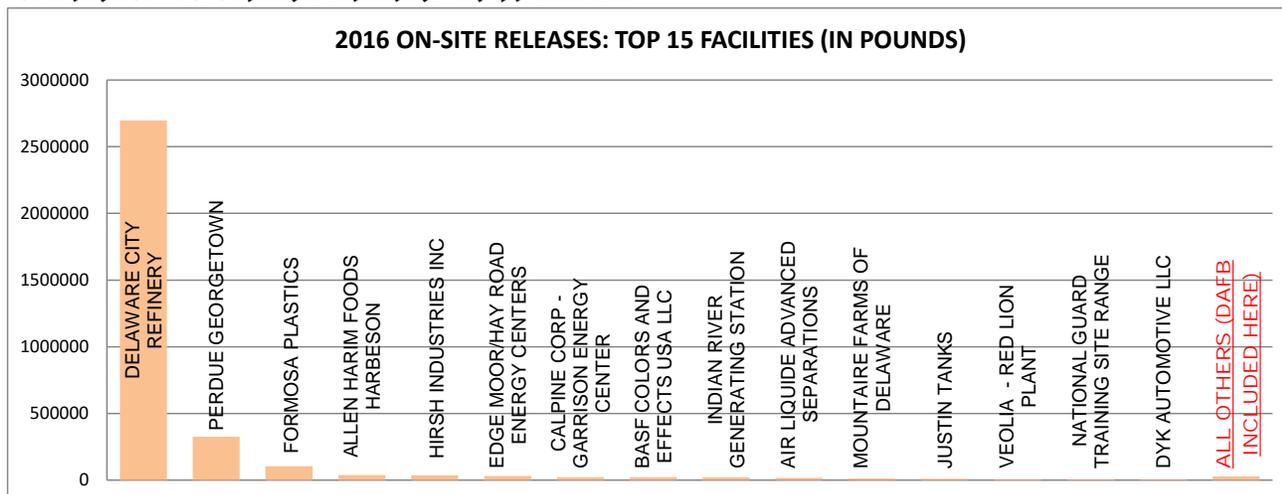
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE	23	0	0	23	0	0	NO	NO
CUMENE	24	0	0	24	0	0	NO	NO
ETHYLBENZENE	24	0	0	24	0	0	NO	YES
LEAD	0	0	0	0	3,878	0	YES	YES
NAPHTHALENE	24	0	0	24	0	0	NO	YES
XYLENE (MIXED ISOMERS)	24	0	0	24	0	0	NO	NO
TOTAL	119	0	0	119	3,878	0		

DOVER AIR FORCE BASE, CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



Dover Air Force Base ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

DUHADAWAY TOOL AND DIE

LOCATION/CONTACT:

Address: 801 Dawson Drive
Newark, DE 19713

Phone: (302) 366-0113

Contact: John O'Donnell



FACILITY OVERVIEW:

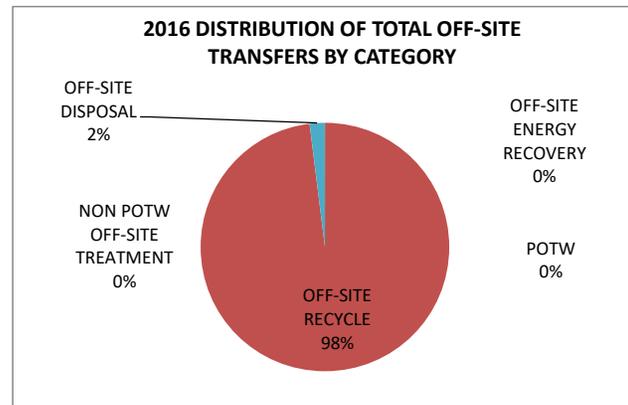
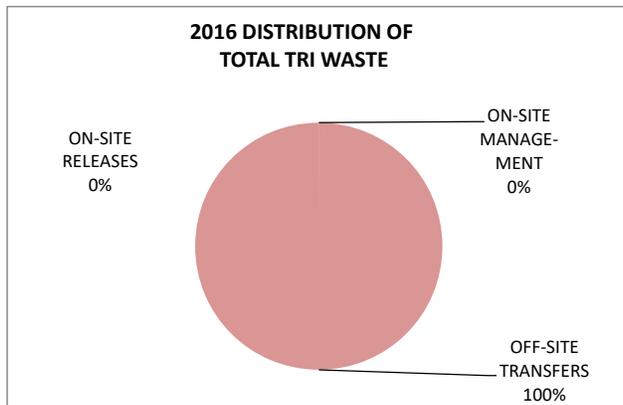
DuHadaway Tool and Die Shop produces precision crafted parts and assemblies for global power generation, automotive, military, and aerospace industries. The facility provides precision machining with the use of horizontal and vertical boring mills, machining centers, lathes, turning centers, electrical discharge machining (EDM), and welding stations.

DuHadaway Tool and Die first filed a TRI report for the 2009 reporting year. The facility was below the reporting thresholds in 2010 and 2011. For 2016, the facility reported on two chemicals, chromium and nickel, with all waste being transferred off-site. Chromium and nickel are present in varying levels in the metals that are used to manufacture parts. The scrap and metal shavings that are the result of the manufacturing process are shipped off-site for recycling. Volumes of scrap and metal shavings are determined by annual sales.

2016 TRI DATA (REPORTED IN POUNDS):

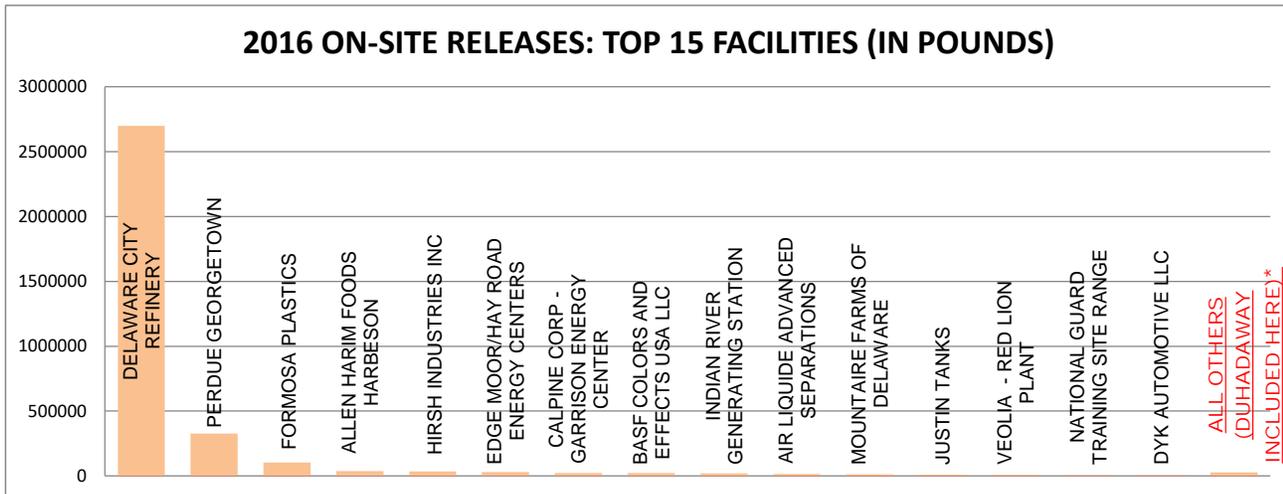
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHROMIUM	0	0	0	0	16,619	0	NO	NO
NICKEL	0	0	0	0	9,148	0	NO	YES
TOTAL	0	0	0	0	25,767	0		

GRAPHICAL INFORMATION:

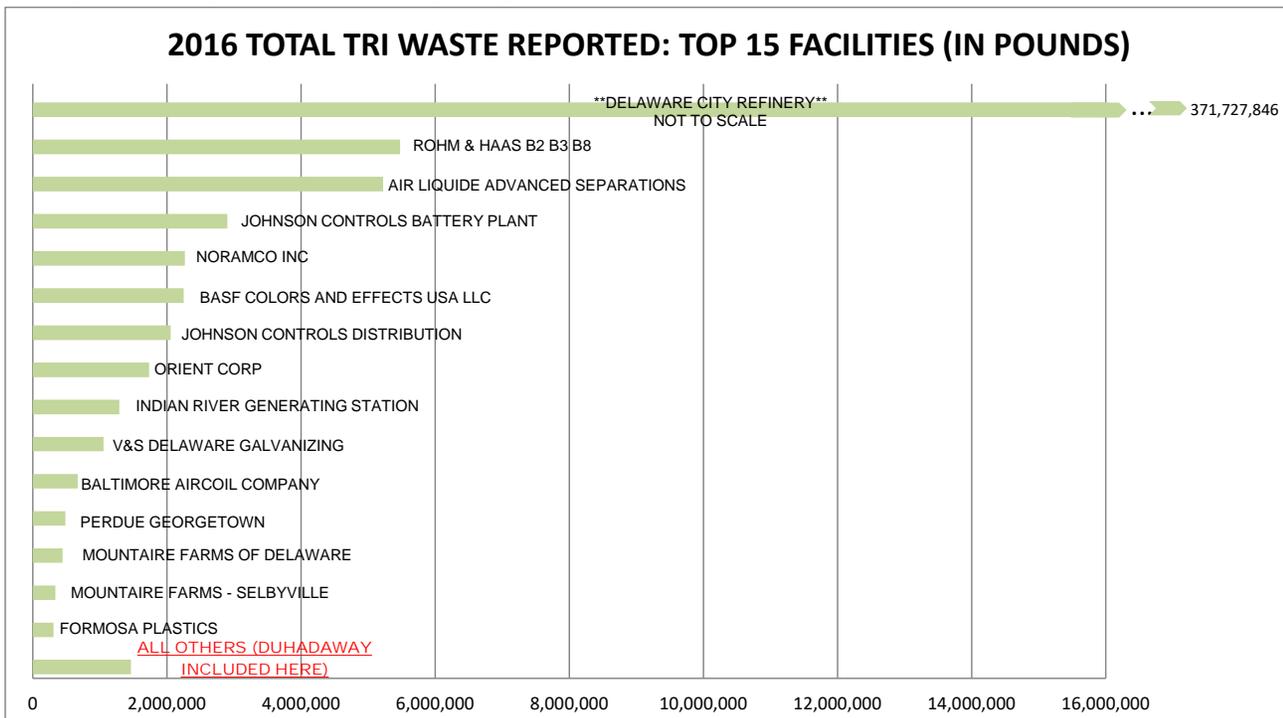


DUHADAWAY TOOL AND DIE, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



*Duhadaway Tool and Die ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site. Comparisons only include facilities reporting on Form R.





TRI FACILITY PROFILES

DYK AUTOMOTIVE LLC

LOCATION/CONTACT:

Address: 1 Crowell Road
Wilmington, DE 19804

Phone: (302)-351-1147

Contact: Jerry Ivey



FACILITY OVERVIEW:

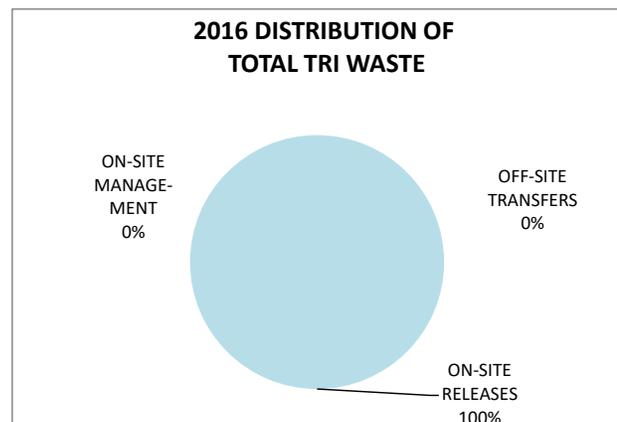
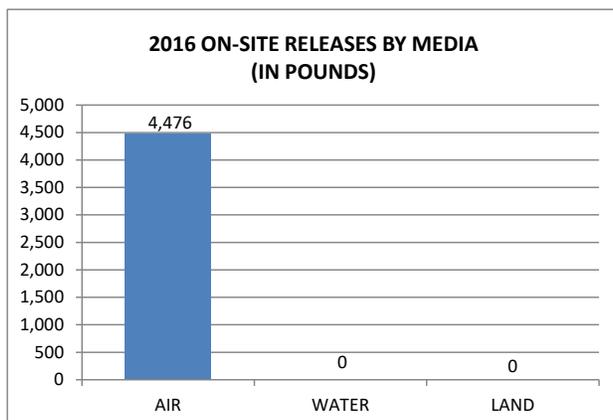
DYK Automotive LLC reported under the North American Industrial Classification System (NAICS) as 325998, which covers miscellaneous chemical product and preparation manufacturing. The facility mixes some products on-site: windshield washer fluid, RV antifreeze, and diesel exhaust fluid; and they also re-package other products for the automotive market.

DYK Automotive LLC, located in Wilmington, reported to TRI for the first time for 2016. They also recently filed a late 2015 TRI report for methanol, reporting on-site release of 3,854 pounds to air. The facility reported on one chemical in 2016, methanol, with on-site releases only to air. On-site releases accounted for all of the facility's reportable waste.

2016 TRI DATA (REPORTED IN POUNDS):

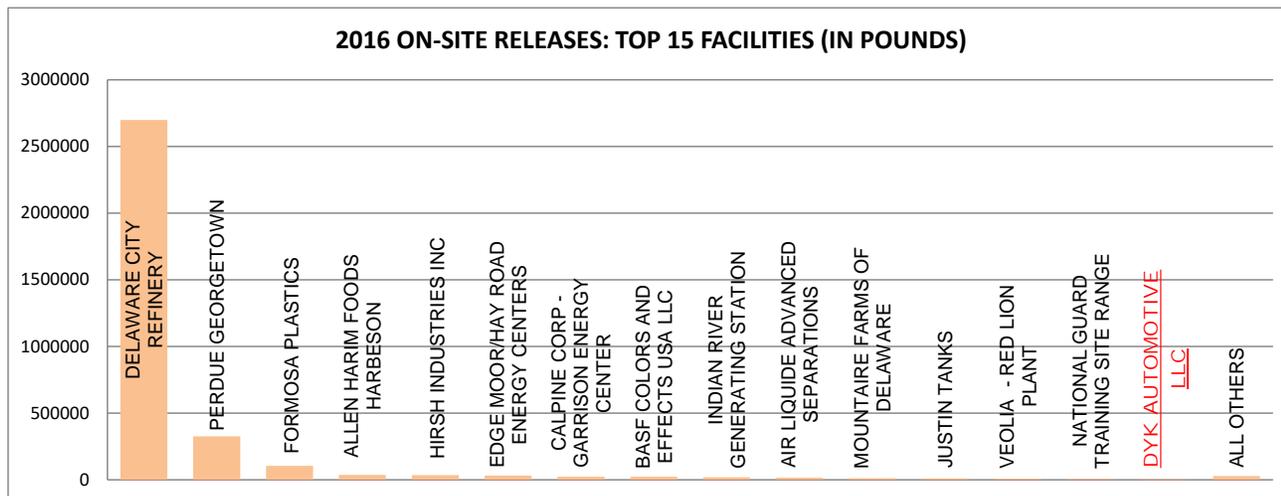
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
METHANOL	4,476	0	0	4,476	0	0	NO	NO
TOTAL	4,476	0	0	4,476	0	0		

GRAPHICAL INFORMATION:



DYK AUTOMOTIVE LLC, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



DYK ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

EDGE MOOR/HAY ROAD ENERGY CENTERS

LOCATION/CONTACT:

Address: 200 Hay Road
Wilmington, DE 19809

Phone: (713) 830-8833

Contact: Norma Dunn



FACILITY OVERVIEW:

The Calpine Edge Moor/Hay Road Energy Centers are located along the Delaware River a mile north of the Port of Wilmington and produce electricity.

Pepco Holdings, Inc. (PHI) sold the generation assets owned by Conectiv Energy to Calpine Corporation in 2010. Based in Houston, Texas, Calpine Corporation is an electricity generating company and converted the Edge Moor, DE and Deepwater, NJ plants to burning natural gas exclusively. All coal combustion was discontinued in 2010. The ceasing of burning coal has significantly reduced releases on-site made by the facility.

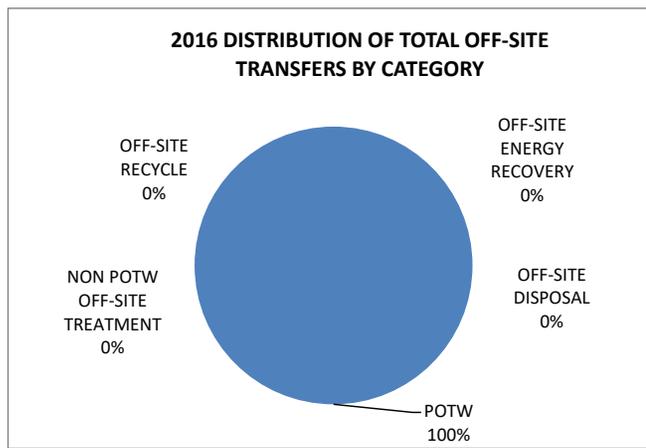
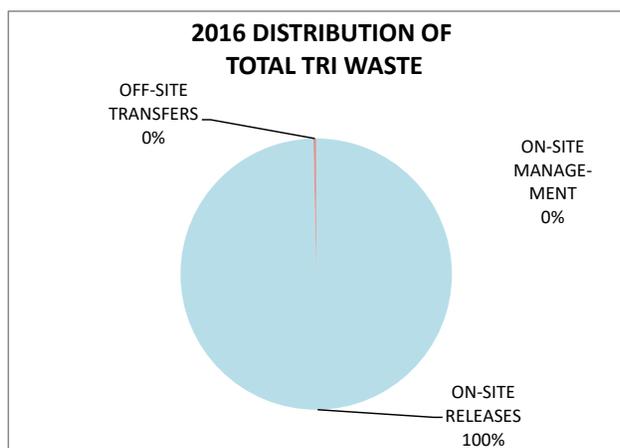
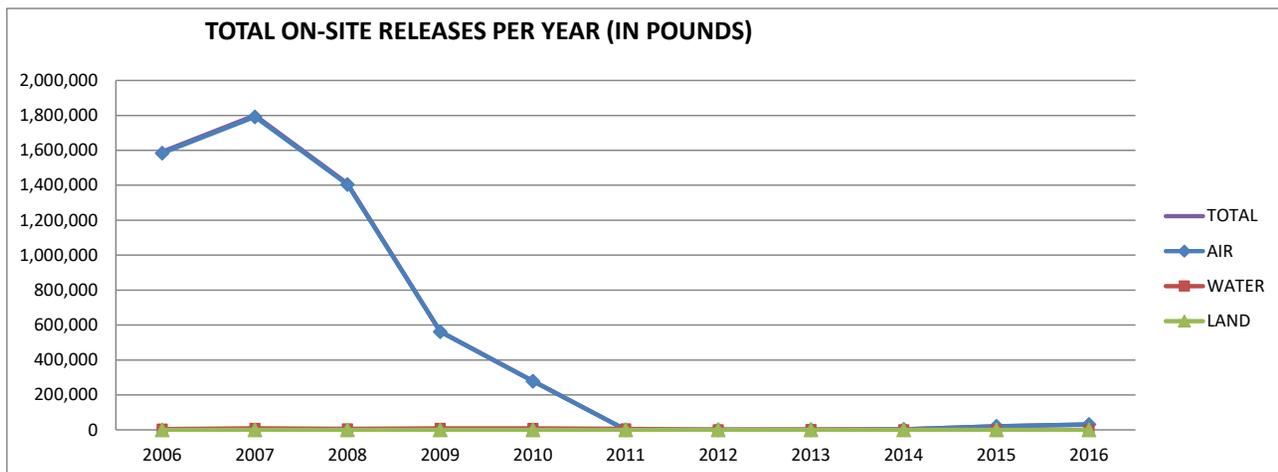
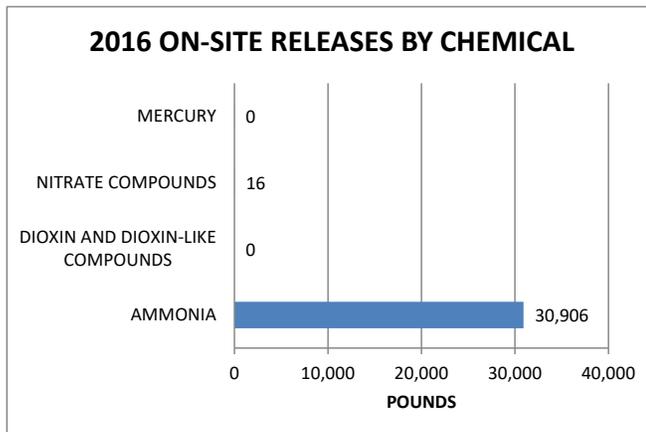
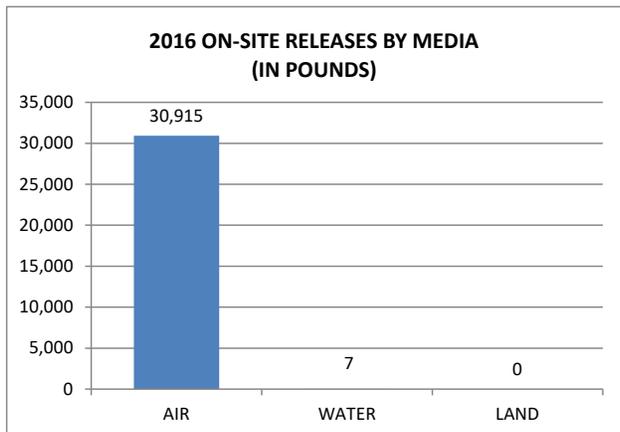
For 2016, the facility reported on 4 chemicals, ammonia, mercury, polycyclic aromatic compounds (PACs) and dioxin and dioxin like compounds (DLCs), with on-site releases to air and water. All the chemicals released except ammonia are formed as by-products during combustion process due to impurities in the fuel. Ammonia is utilized at the facility for pollution control.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
AMMONIA	30,899	7	0	30,906	102	0	NO	NO
DIOXIN AND DIOXIN-LIKE COMPOUNDS	0.005732	0.000000	0.000000	0.005732	0.000000	0.000000	YES	NO
MERCURY	15.9000	0.0090	0.0000	15.9090	0.0600	0.0000	YES	NO
POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	YES	YES
TOTAL	30,915	7	0	30,922	102	0		

**EDGE MOOR/HAY ROAD
ENERGY CENTERS, CONT.**

GRAPHICAL INFORMATION:

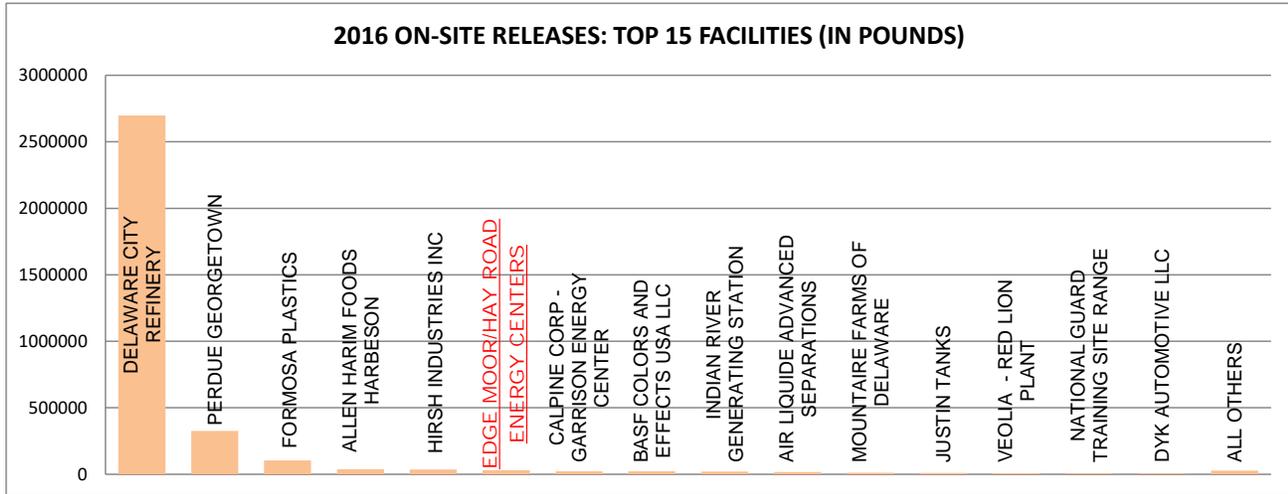




TRI FACILITY PROFILES

EDGE MOOR/HAY ROAD ENERGY CENTERS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Edge Moor-Hay Road Energy Centers ranks 20th for on-site releases of mercury from electric utility facilities (NAICS code 2211) (out of 27 facilities).



TRI FACILITY PROFILES

FORMOSA PLASTICS

LOCATION/CONTACT:

Address: 780 Schoolhouse Road
Delaware City, DE 19706

Phone: (302)-836-2256

Contact: Kimberly Bennett



FACILITY OVERVIEW:

Formosa Plastics, located in the Delaware City complex, produces polyvinyl chloride (PVC) resin for bulk sale to other industries that produce PVC based products, such as containers, flooring, carpet backing, upholstery, toys, and gloves.

The facility has reported since 1987. Formosa reported on four TRI chemicals for 2016; vinyl acetate monomer, vinyl chloride monomer, ammonia, and dioxins and dioxin-like compounds. Vinyl acetate monomer (VAM) is a raw material used in certain products and is released through the drying process. Vinyl chloride monomer (VCM) is the primary ingredient for producing PVC and is released as residual unreacted monomer during the drying process of the PVC resin. Permits regulate the concentration of the residual monomer in the PVC before drying. Ammonia is also used in several of Formosa's products and is released during the PVC drying process. Trace amounts of dioxins and dioxin-like compounds were detected in the plant emissions (0.000007 pounds) and waste and recycled solids (0.000224 pounds), possibly the result of on-site incineration of waste gases. Scrubber water from the incinerator is processed by the wastewater treatment system.

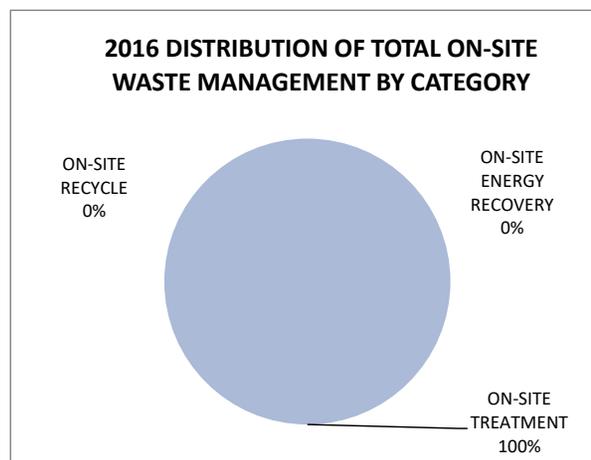
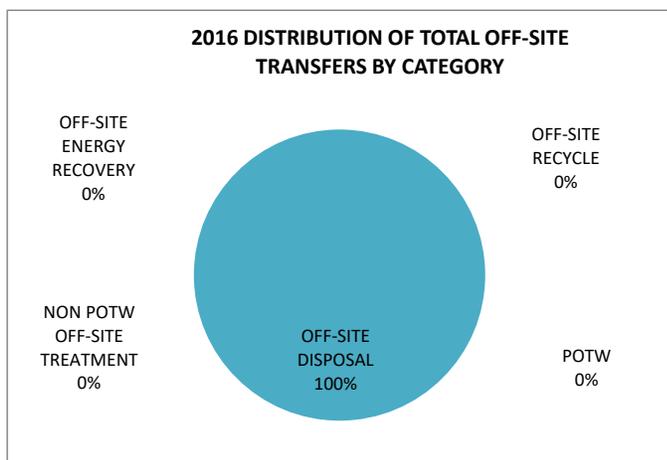
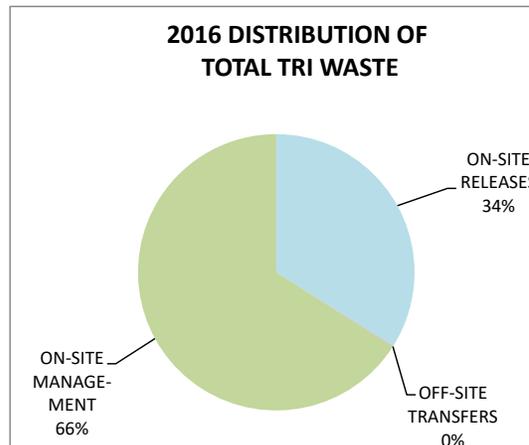
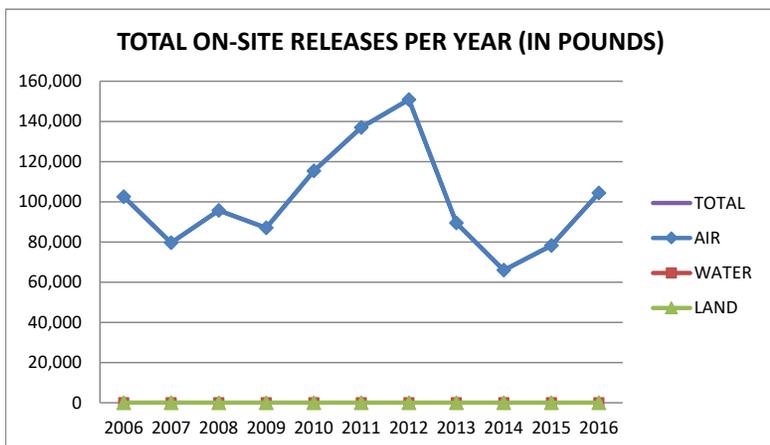
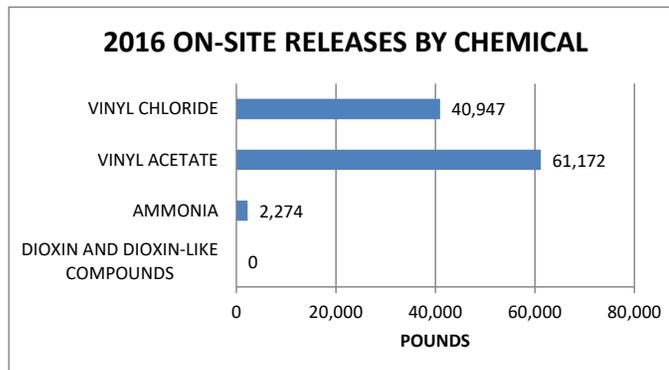
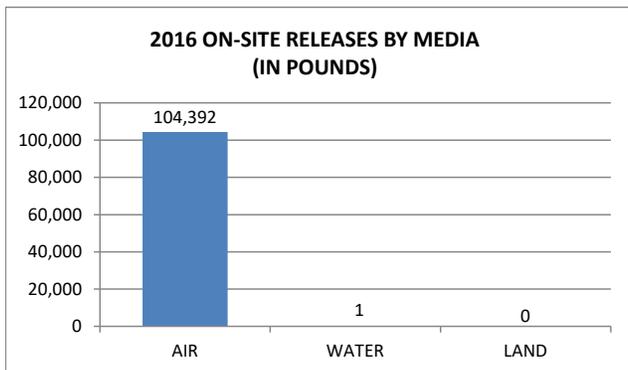
For 2016, total on-site releases were up by 33%, compared to 2015.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
AMMONIA	2,274	0	0	2,274	0	0	NO	NO
DIOXIN AND DIOXIN-LIKE COMPOUNDS	0.000007	0.000000	0.000000	0.000007	0.000224	0.000000	YES	NO
VINYL ACETATE	61,172	0	0	61,172	0	0	NO	YES
VINYL CHLORIDE	40,946	1	0	40,947	216	202,499	NO	YES
TOTAL	104,392	1	0	104,393	216	202,499		

FORMOSA PLASTICS, CONT.

GRAPHICAL INFORMATION:

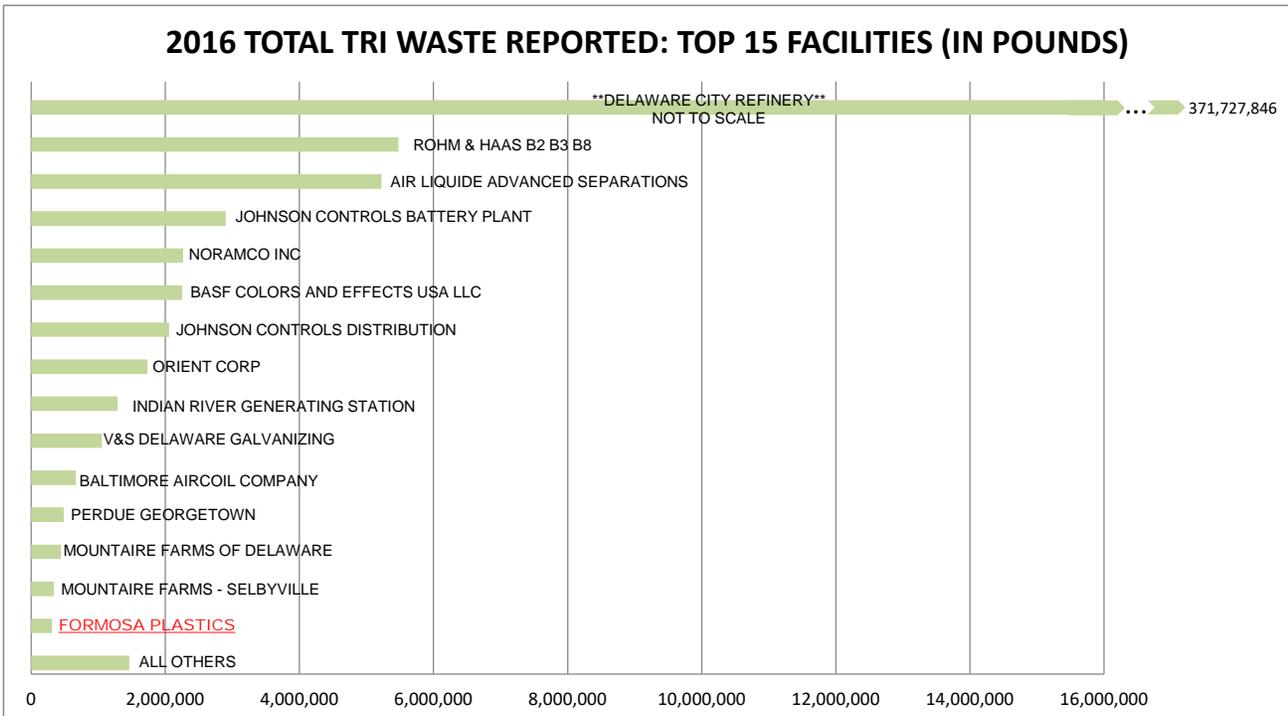
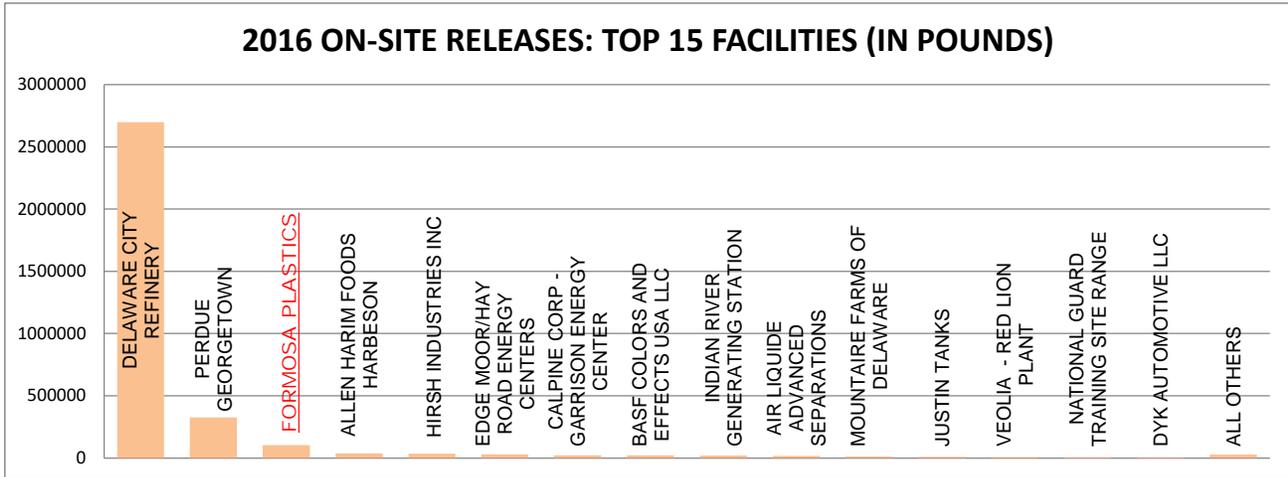




TRI FACILITY PROFILES

FORMOSA PLASTICS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2015 NATIONAL RANKINGS:

Formosa Plastics ranks 5th in the nation for on-site releases of vinyl chloride (out of 40 facilities).

Formosa Plastics ranks 5th in the nation for on-site releases of vinyl acetate (out of 148 facilities).

Formosa Plastics ranks 15th in the nation for on-site treatment of vinyl chloride (out of 40 facilities).



TRI FACILITY PROFILES

GAC SEAFORD

LOCATION/CONTACT:

Address: 25938 Nanticoke Street
Seaford, DE 19973

Phone: (813) 248-2101

Contact: Michael Thrasher



FACILITY OVERVIEW:

GAC Seaford manufactures asphalt based roof and driveway coatings and repair products. The products are manufactured in a batch process then filled into retail sized containers. The products are palletized and shipped to retail chains across the northeast.

The facility has reported since 1988. GAC Seaford reported one chemical in 2016, trimethylbenzene, on short form A. Trimethylbenzene is listed as a minor/trace component of Mineral Spirits on some supplier safety data sheets. Mineral Spirits are used to thin asphalt to make it flowable at ambient temperatures so it can be used as a cold process coating, sealant, or adhesive in finished products. Mineral spirits are not a generated waste at the site. Any unused mineral spirits from a previous batch are reworked into the next process batch. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILE

GRIFFITH ENERGY -CARL KING

LOCATION/CONTACT:

Address: 1400 E. Lebanon Road
Dover, DE 19901

Phone: (301) 322-6691

Contact: Charlie Raines



FACILITY OVERVIEW:

Griffith Energy Services, Inc.-Carl King, Inc. distributes heating oil and bulk stores fuel onsite. The operation involves loading petroleum products onto tank wagons and distributing them to customers. The tank wagons are top loaded in a diked area.

Griffith Energy-Carl King has reported since 1998, previously as Carl King. The facility reported on three chemicals in 2016, (1,2,4-trimethylbenzene, naphthalene, xylene(mixed isomers)), with all chemicals being reported on the short Form A. These chemicals are found in the fuels that are sold. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 lbs. to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE*	0	0	0	0	0	0	NO	NO
NAPHTHALENE*	0	0	0	0	0	0	NO	YES
XYLENE (MIXED ISOMERS)*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILES

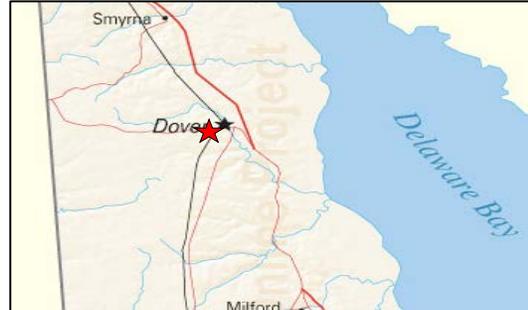
HANDYTUBE

LOCATION/CONTACT:

Address: 124 Veeco Boulevard
Camden, DE 19934

Phone: (302)-697-9521

Contact: Hubert McGovern



FACILITY OVERVIEW:

HandyTube Corporation specializes in the production of seamless stainless steel coiled and straight length tubing. These tubes are produced for numerous applications in the Petrochemical, Oil and Gas, Subsea and Downhole, Geothermal, Chromatography, Flow Measurement and Sensing, Medical, Ship Building, Military, Aerospace, Semiconductor and Instrumentation industries. HandyTube produces continuous seamless coils which can be in excess of 6,000 feet. The tubing ranges in size from .020 to 1.0 inch outer diameter.

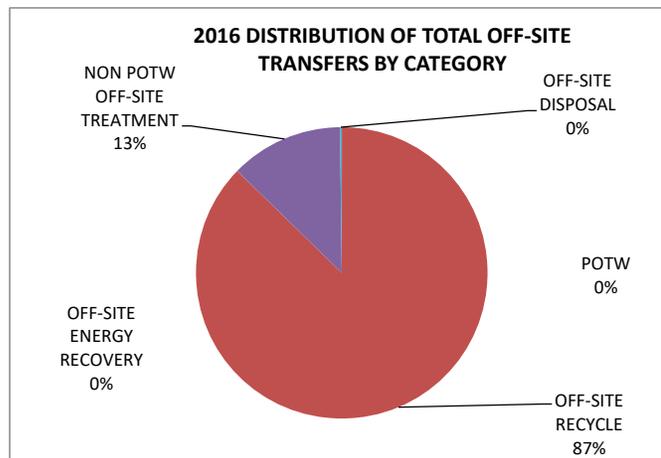
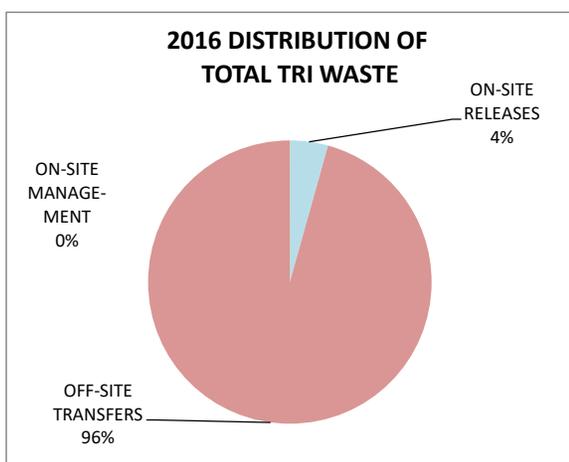
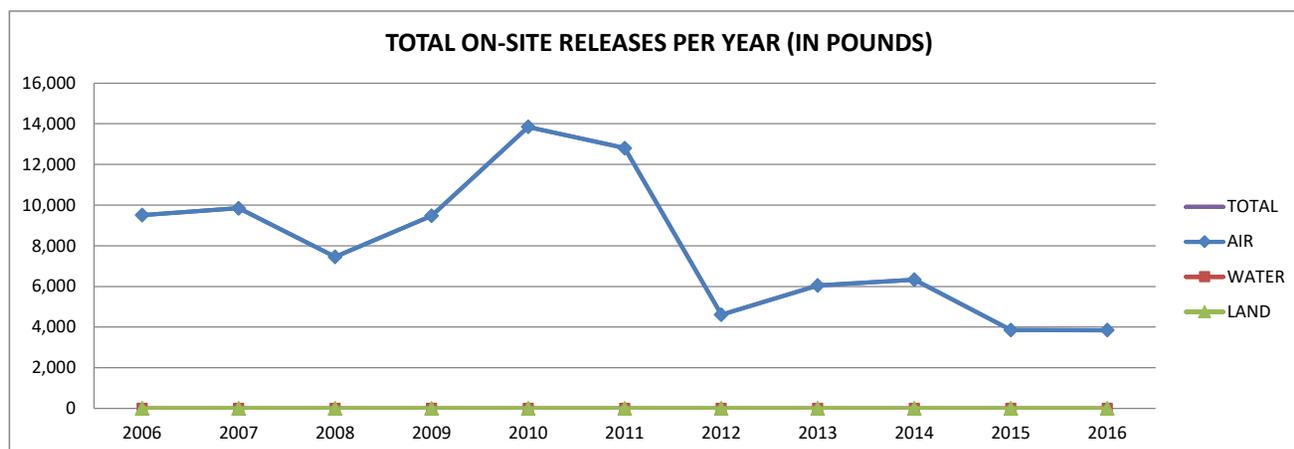
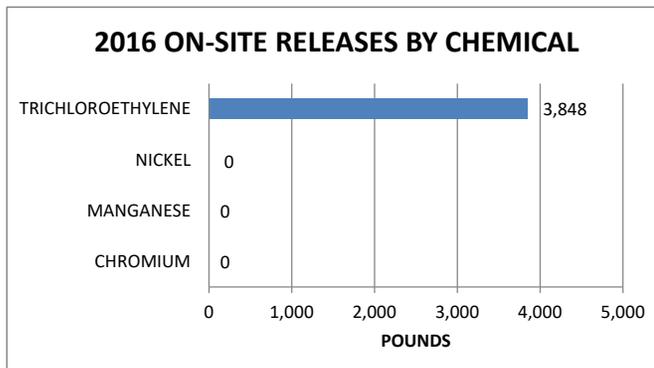
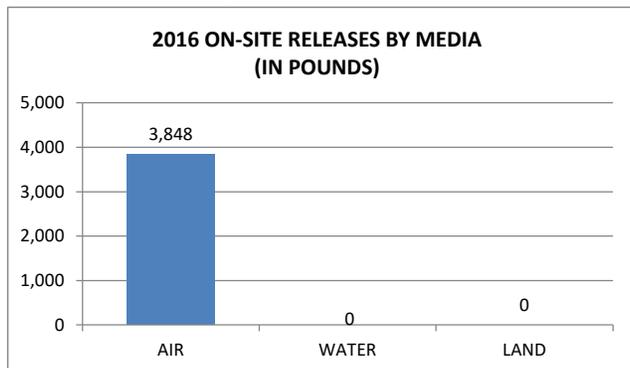
The facility has reported since 1987, previously as Camdel Metals. Trichloroethylene (TCE) is the primary TRI chemical reported by HandyTube and makes up 100% of the on-site release amount. It is used as a solvent to clean the tubing. After 1994, HandyTube switched to a closed vacuum system for the TCE, which significantly reduced releases to air (92,000 pounds of TCE were released to air in 1994). HandyTube has continued to make improvements to the closed vacuum system that has further reduced TCE releases to air. Of the scrap metal generated at the facility, over 99% is sent off site for recycle.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHROMIUM	0	0	0	0	35270	0	NO	NO
MANGANESE	0	0	0	0	3,534	0	NO	NO
NICKEL	0	0	0	0	35,186	0	NO	NO
TRICHLOROETHYLENE	3,848	0	0	3,848	10,572	0	NO	NO
TOTAL	3,848	0	0	3,848	84,562	0		

HANDYTUBE, CONT.

GRAPHICAL INFORMATION:

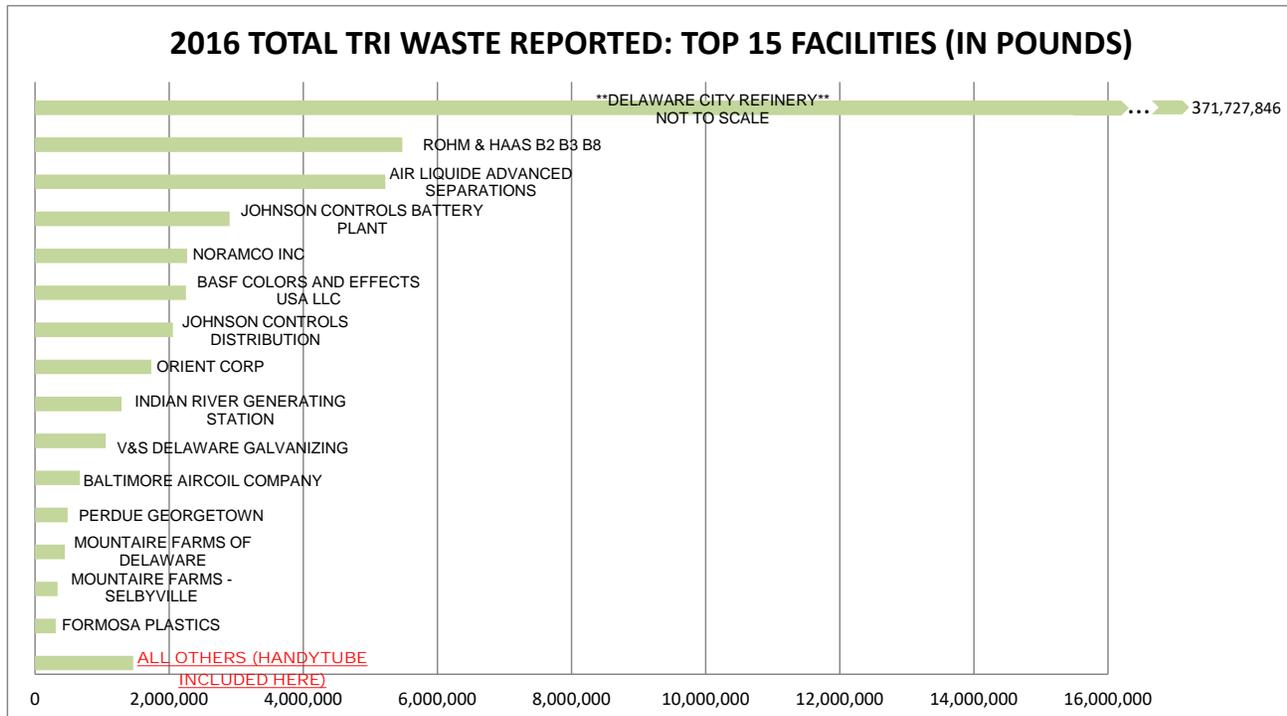
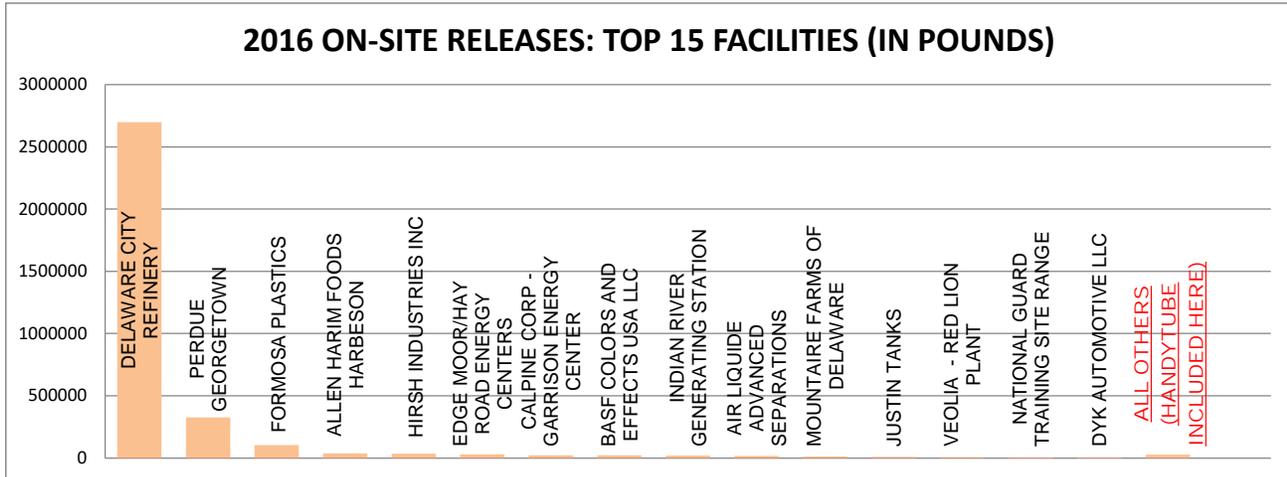




TRI FACILITY PROFILES

HANDYTUBE, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

HandyTube ranks 67th in the nation for on-site releases of trichloroethylene (out of 164 facilities).

HANESBRANDS

LOCATION/CONTACT:

Address: 631 Ridgley Street
Dover, DE 19904

Phone: (336)-519-2582

Contact: David Swicegood



FACILITY OVERVIEW:

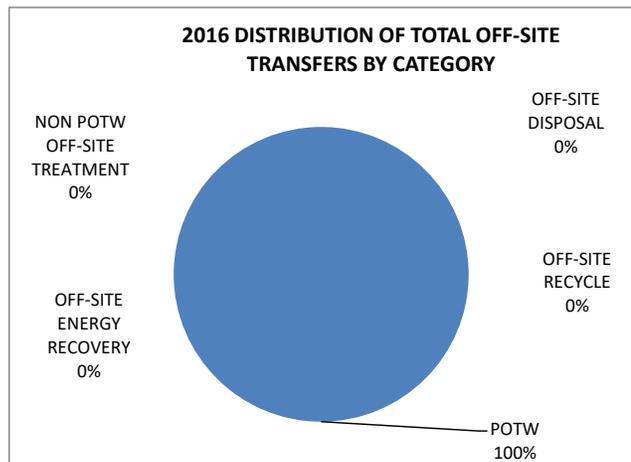
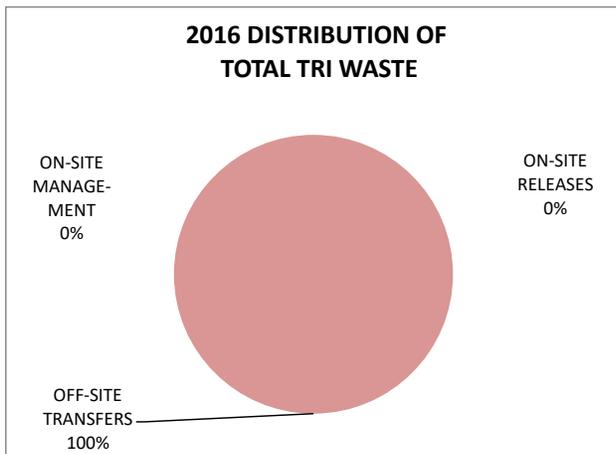
Hanesbrands makes the 18-Hour material for the Playtex 18-Hour Bras. By compounding the latex with different chemicals, a rubber latex is produced. This latex is placed on an engraved roll which then goes through a process which coats the rubber latex with adhesive, and nylon fabric is adhered to both sides to create the 18-Hour material.

Hanesbrands has reported since 2003, formerly as Sara Lee Apparel and Playtex Apparel. The facility reported on one chemicals in 2016, nitrate compounds. Nitrate Compounds are a by-product of compounding the latex and are transferred off-site for treatment.

2016 TRI DATA (REPORTED IN POUNDS):

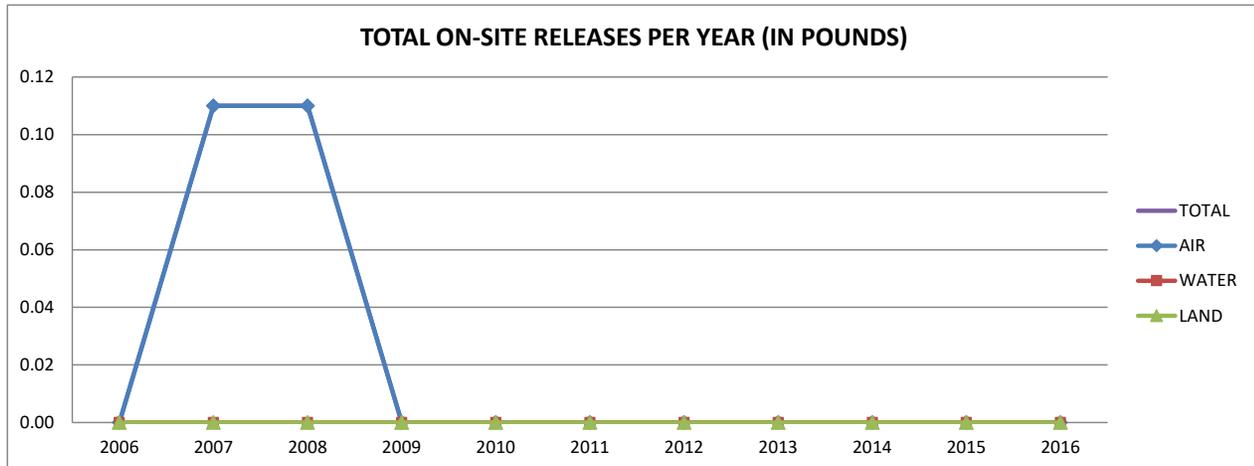
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
NITRATE COMPOUNDS	0	0	0	0	29,744	0	NO	NO
TOTAL	0	0	0	0	29,744	0		

GRAPHICAL INFORMATION:

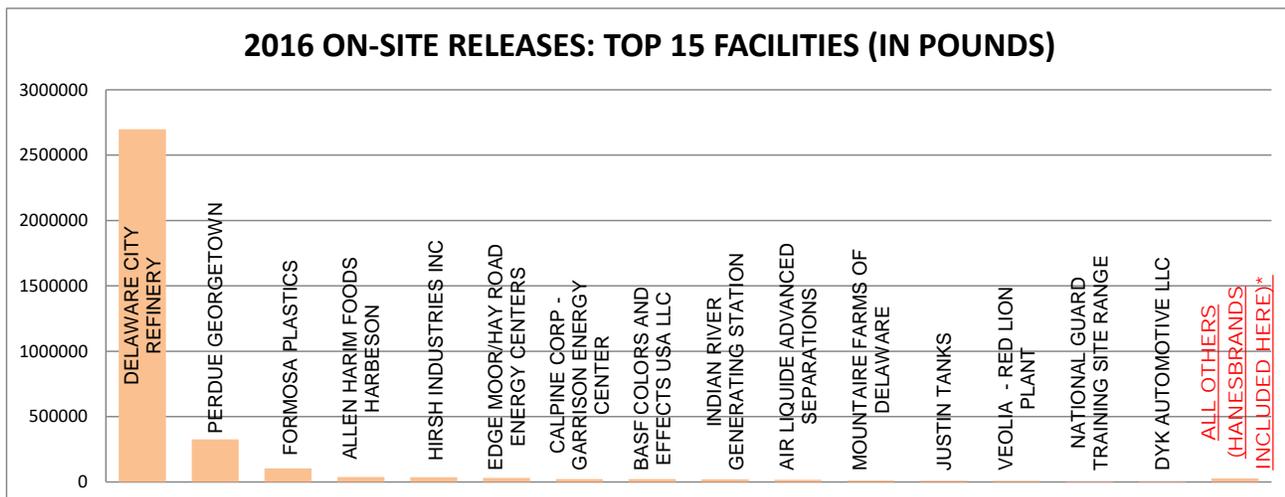


HANESBRANDS, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



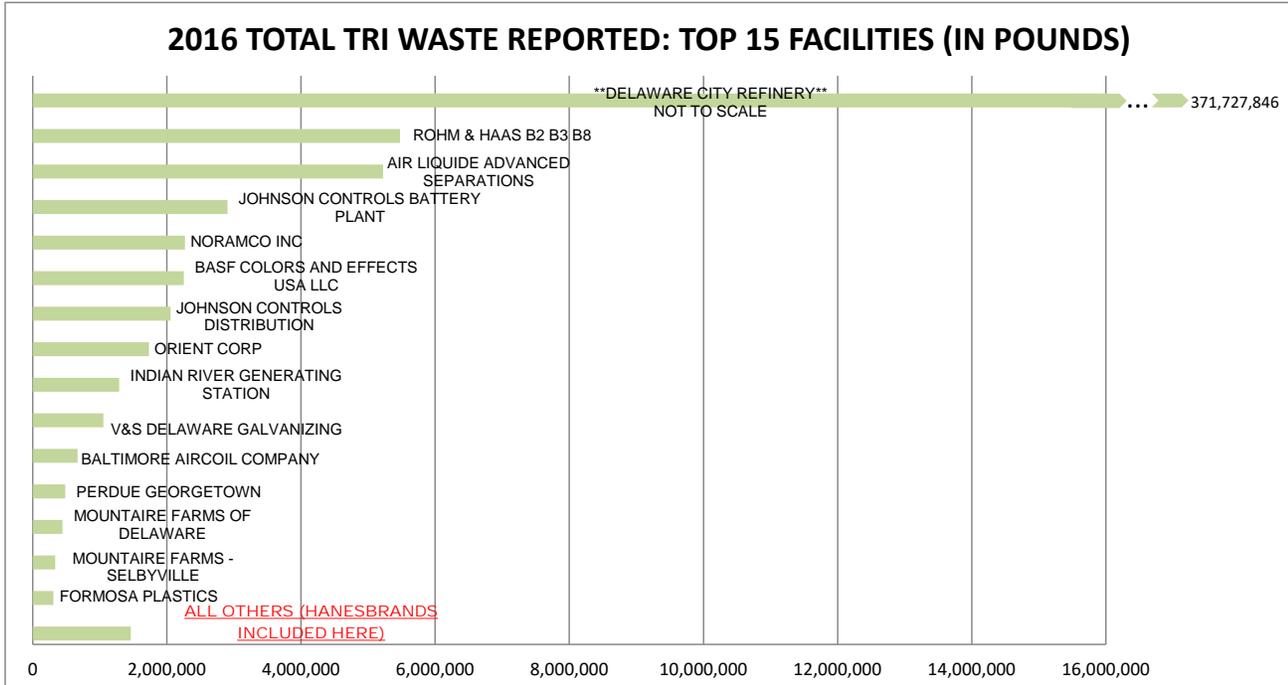
*Hanesbrands ranks in the bottom third in on-site releases reported by facilities in 2015. The bottom third accounted for less than a total of 82 pounds released on-site. Comparisons only include facilities reporting on Form R.



TRI FACILITY PROFILES

HANESBRANDS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:



NOTABLE 2016 NATIONAL RANKINGS:

Hanesbrands ranks 3rd in the off-site transfer of nitrate compounds for textile facilities (NAICS 313/314) (out of 9 facilities).



TRI FACILITY PROFILES

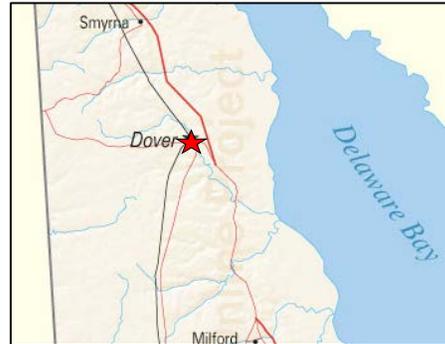
HIRSH INDUSTRIES

LOCATION/CONTACT:

Address: 1525 McKee Road
Dover, DE 19904

Phone: (302)-678-3454

Contact: Ken Murr



FACILITY OVERVIEW:

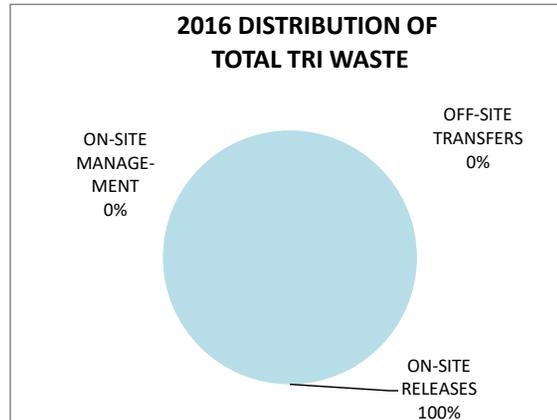
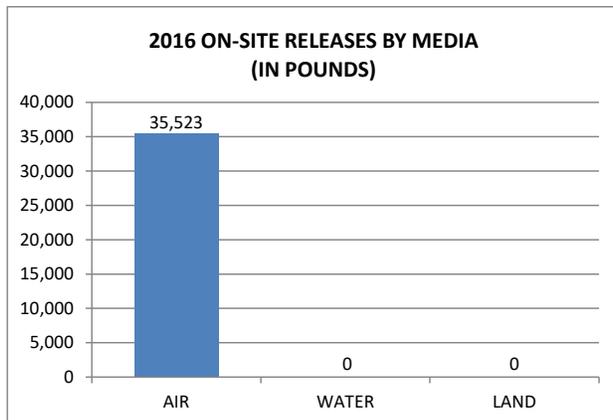
Hirsh Industries, located in Dover, produces a line of consumer durables. These products include file cabinets, shelving units, and lateral filing systems. These items are used in home and office applications.

Hirsh Industries has reported since 1989, previously as Steel Works and General Metal Craft. The facility reported one TRI chemical in 2016, certain glycol ethers, with on-site releases made only to air. The chemical is used as a component in the water based coatings for their painting process. On-site releases remained about the same as 2015; but the amount reported to TRI for 2015 was recently revised upward, primarily as a result of a change in the specific glycol ethers in their paint formulation. This also caused them to review the glycol ethers reported to TRI that were contained in prior years paint formulations, and to revise their TRI reports upward for the years 2010-2014.

2016 TRI DATA (REPORTED IN POUNDS):

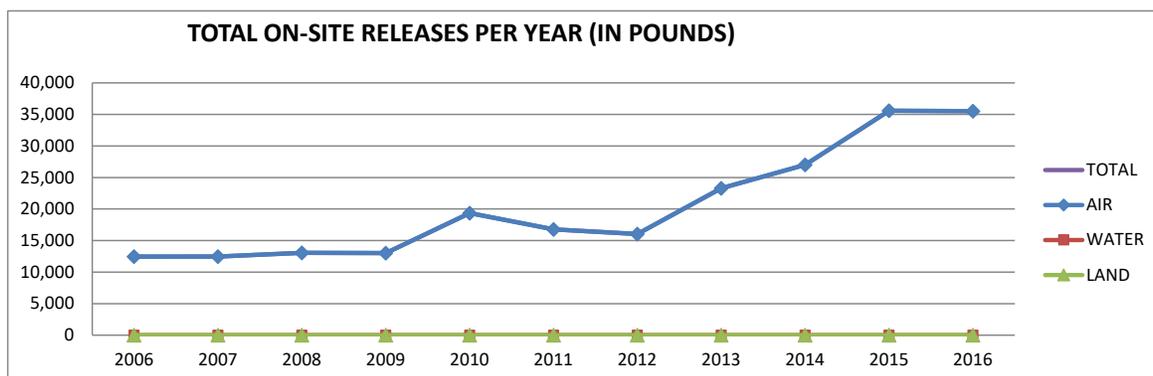
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CERTAIN GLYCOL ETHERS	35,523	0	0	35,523	0	0	NO	NO
TOTAL	35,523	0	0	35,523	0	0		

GRAPHICAL INFORMATION:

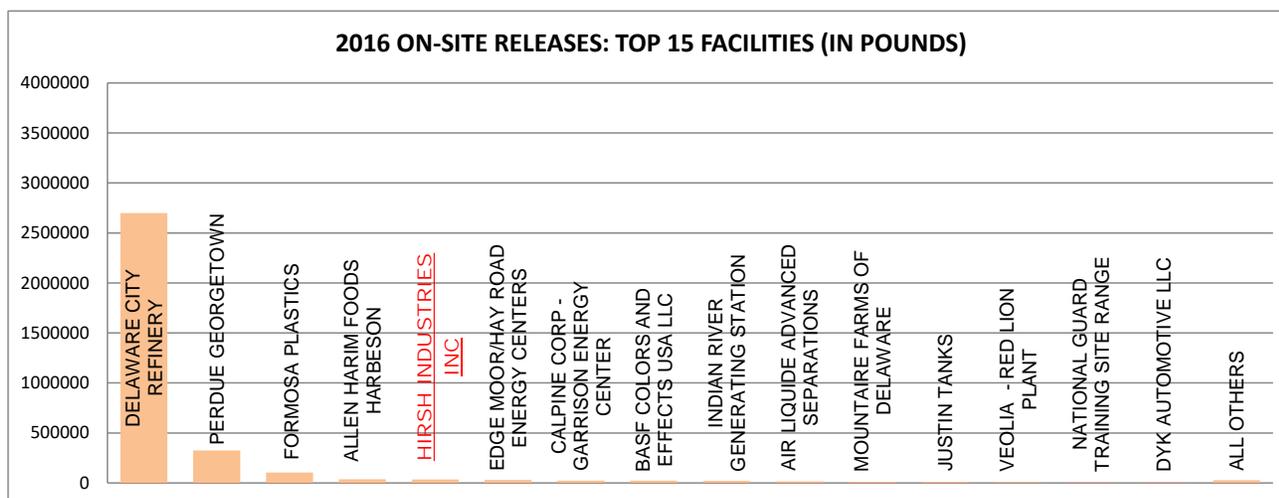


HIRSH INDUSTRIES, CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



Hirsh Industries ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

Hirsh Industries ranks 1st in the on-site releases of certain glycol ethers for furniture facilities (NAICS 337) (out of 13 facilities).



TRI FACILITY PROFILES

HMA HERITAGE CONCRETE-BEAR

LOCATION/CONTACT:

Address: 1250 Porter Road
Bear, DE 19701

Phone: (717)-236-7023

Contact: John Rice



FACILITY OVERVIEW:

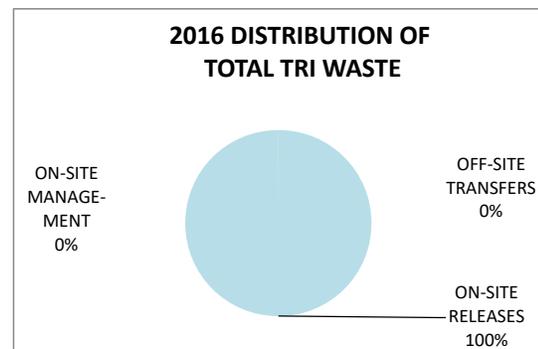
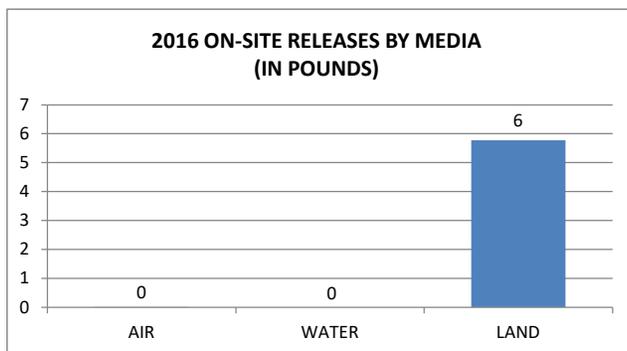
HMA Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

HMA Heritage Concrete has three facilities in Delaware that report to TRI located in Bear, Cheswold, and Wilmington. The company has reported to TRI since 2013. These facilities each reported on one chemical in 2016, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD	0	0	6	6	0	0	YES	YES
TOTAL	0	0	6	6	0	0		

GRAPHICAL INFORMATION:



HMA HERITAGE CONCRETE-BEAR, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

HMA Heritage Concrete-Bear ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

HMA Heritage Concrete-Bear ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

HMA Heritage Concrete-Bear ranks 76th in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 848 facilities).



TRI FACILITY PROFILES

HMA HERITAGE CONCRETE-CHESWOLD

LOCATION/CONTACT:

Address: 376 Holly Oak Lane
Cheswold, DE 19936

Phone: (717)-236-7023

Contact: John Rice



FACILITY OVERVIEW:

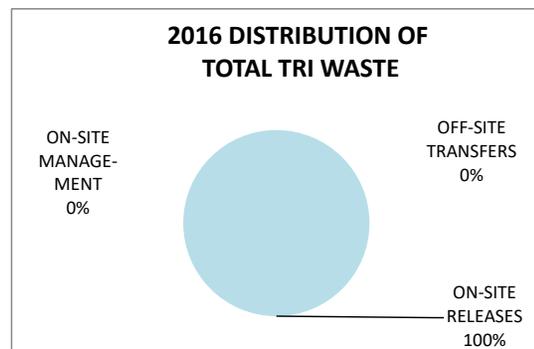
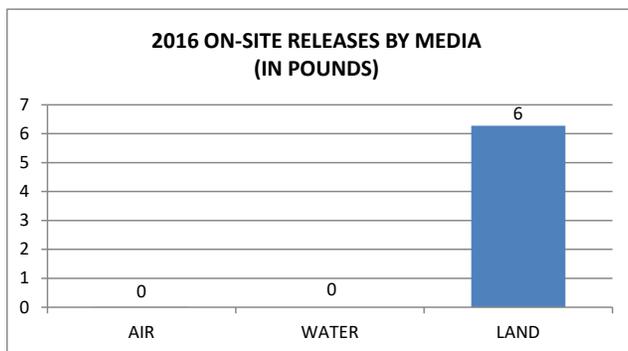
HMA Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

HMA Heritage Concrete has three facilities in Delaware that report to TRI located in Bear, Cheswold, and Wilmington. The company has reported to TRI since 2013. These facilities each reported on one chemical in 2016, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD	0	0	6	6	0	0	YES	YES
TOTAL	0	0	6	6	0	0		

GRAPHICAL INFORMATION:



TRI FACILITY PROFILES



HMA HERITAGE CONCRETE-CHESWOLD, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

HMA Heritage Concrete-Cheswold ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

HMA Heritage Concrete Cheswold ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

HMA Heritage Concrete-Cheswold ranks 72nd in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 848 facilities).

HMA HERITAGE CONCRETE-HEALD STREET

LOCATION/CONTACT:

Address: 1100 Heald Street
Wilmington, DE 19801

Phone: (717)-236-7023

Contact: John Rice



FACILITY OVERVIEW:

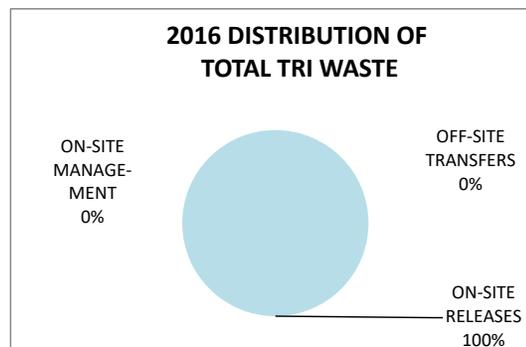
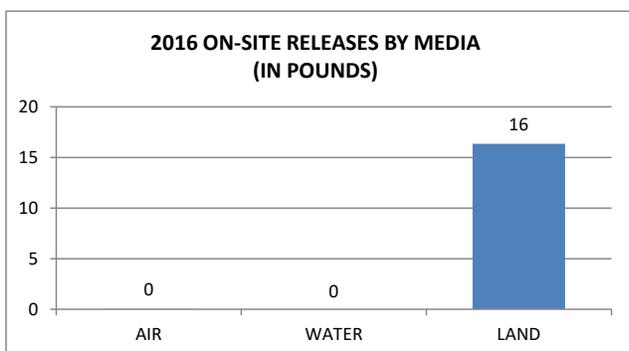
HMA Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

HMA Heritage Concrete has three facilities in Delaware that report to TRI located in Bear, Cheswold, and Heald Street in Wilmington. The company has reported to TRI since 2013. These facilities each reported on one chemical in 2016, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD	0	0	16	16	0	0	YES	YES
TOTAL	0	0	16	16	0	0		

GRAPHICAL INFORMATION:



TRI FACILITY PROFILES



HMA HERITAGE CONCRETE-HEALD STREET, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

HMA Heritage Concrete-Heald Street ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82pounds released on-site.

HMA Heritage Concrete-Heald Street ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

HMA Heritage Concrete-Heald Street ranks 48th in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 848 facilities).



TRI FACILITY PROFILES

HONEYWELL

LOCATION/CONTACT:

Address: 6100 Philadelphia Pike
Claymont, DE 19703

Phone: (302)-791-6748

Contact: Russell Davis



FACILITY OVERVIEW:

Honeywell manufactures specialty chemicals that are used in the production of hydrocarbon resins, lubricants, and adhesives.

The facility has reported since 1987, previously as Allied Signal. Honeywell reported three TRI chemicals for 2016. All on-site releases were to air. Releases of boron trifluoride and hydrogen fluoride accounted for over 99% of the on-site releases, while releases of methanol accounted for less than 1%. The chemicals reported are utilized in the manufacture of fluorine based chemicals.

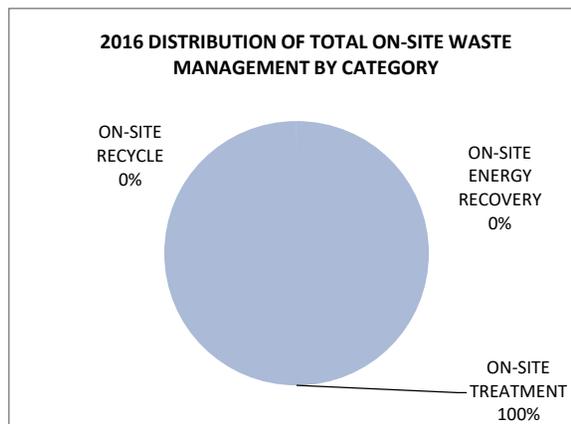
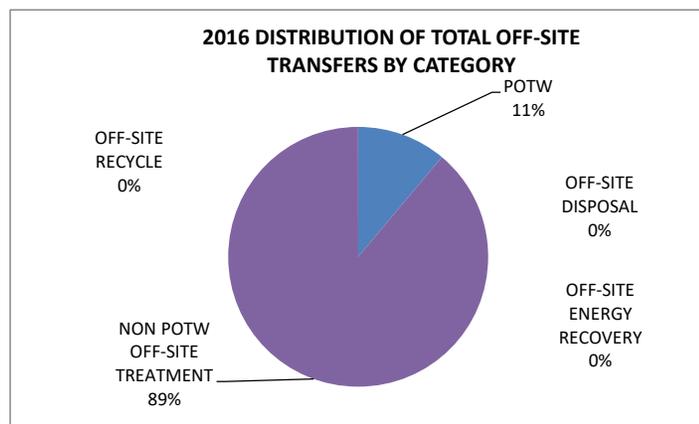
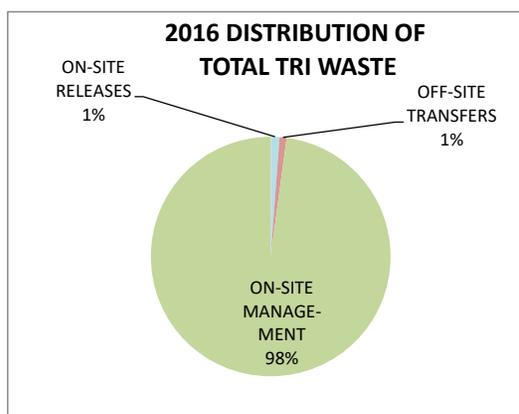
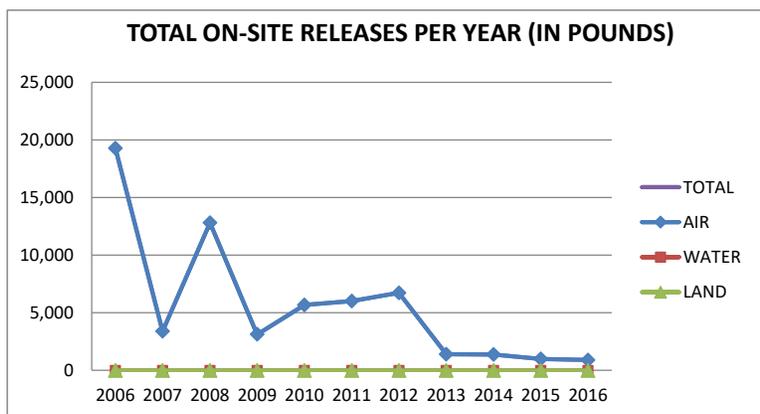
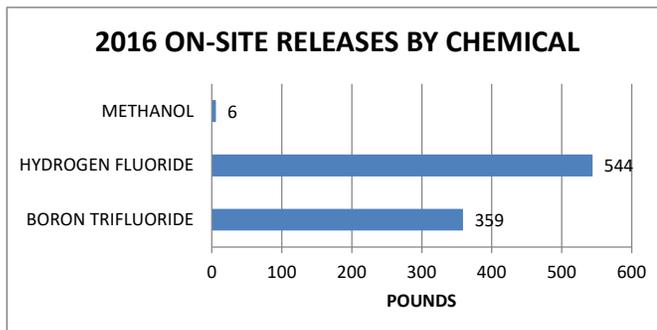
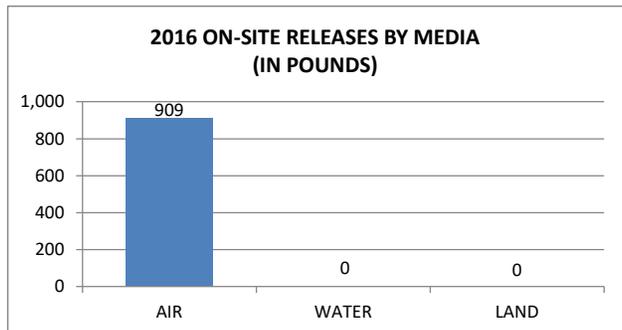
In 2013, Honeywell discontinued the use of hexane and ammonia at the facility resulting in significantly reducing on-site releases.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
BORON TRIFLUORIDE	359	0	0	359	0	75,026	NO	NO
HYDROGEN FLUORIDE	544	0	0	544	0	91	NO	NO
METHANOL	6	0	0	6	720	0	NO	NO
TOTAL	909	0	0	909	720	75,117		

HONEYWELL, CONT.

GRAPHICAL INFORMATION:

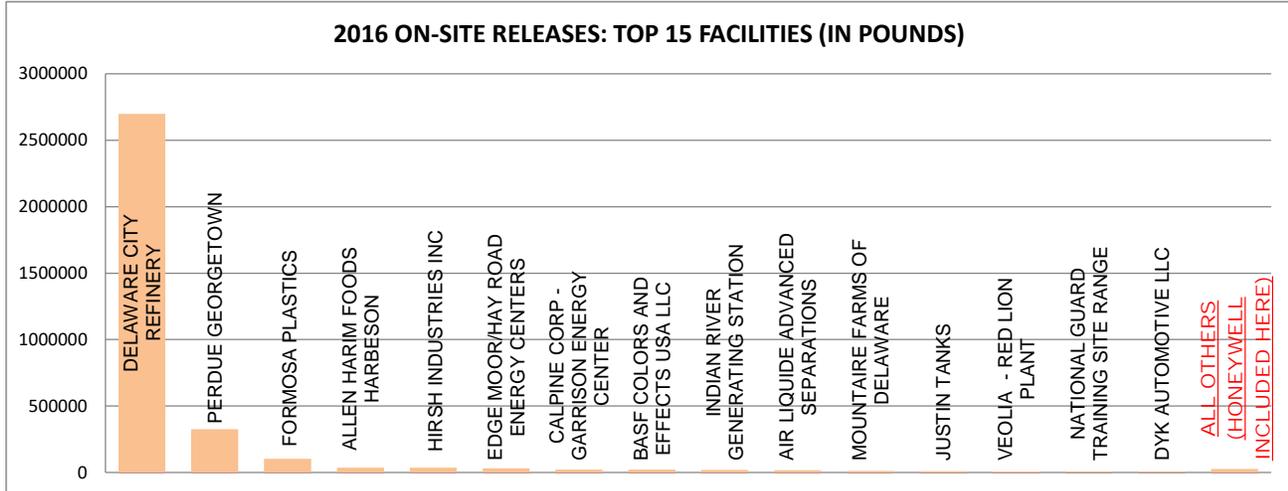




TRI FACILITY PROFILES

HONEYWELL, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Honeywell ranks 5th nationally in on-site releases of boron trifluoride (out of 21 facilities).

IKO

LOCATION/CONTACT:

Address: 120 Hay Road
Wilmington, DE 19809

Phone: (302) 764-3100

Contact: Steven Grier



FACILITY OVERVIEW:

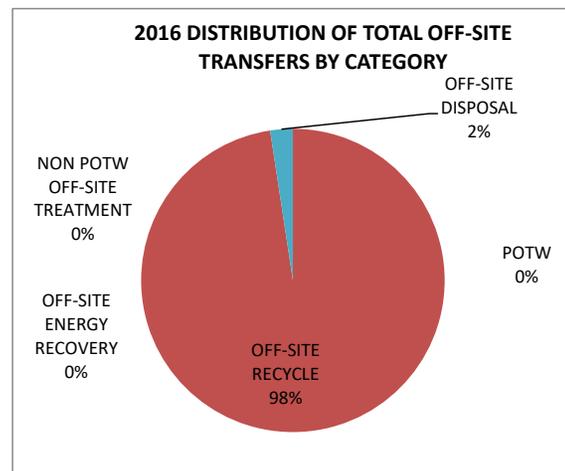
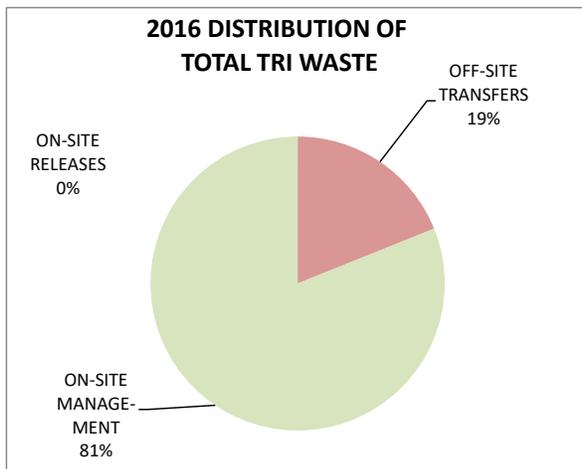
IKO Production, Inc. manufactures residential roofing products, mainly asphalt shingles, which are made from fiberglass mat coated with asphalt and finished with colored roofing granules.

IKO has reported since 2000. The facility reported on one chemical in 2016, polycyclic aromatic compounds (PACs), with 99.9% of the waste being managed on and off-site. PACs are a byproduct of asphalt, which is a residual petroleum product from crude oil distillation.

2016 TRI DATA (REPORTED IN POUNDS):

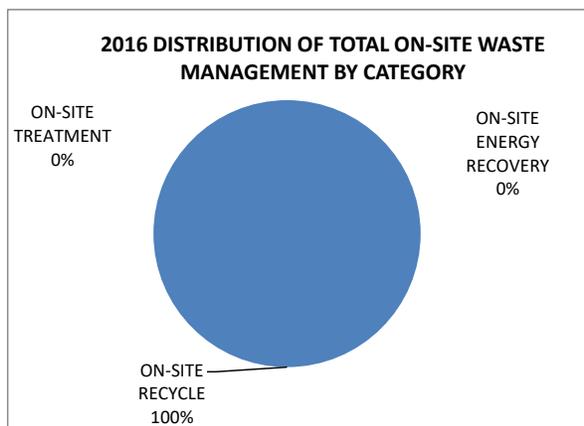
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	108	465	YES	YES
TOTAL	0	0	0	0	108	465		

GRAPHICAL INFORMATION:



IKO, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

IKO ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

IKO ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

IKO ranks 52nd in the nation for on-site recycling of polycyclic aromatic compounds (out of 1,623 facilities).



TRI FACILITY PROFILES

INDIAN RIVER GENERATING STATION

LOCATION/CONTACT:

Address: 29416 Power Plant Road
Dagsboro, DE 19966

Phone: (609)-524-4529

Contact: David Gaier



FACILITY OVERVIEW:

Indian River Generating Station is a 426 megawatt facility that produces electricity, primarily from the combustion of coal. The facility previously consisted of four coal burning units and one combustion turbine. As of 2011, Units #1 and #2 were retired and Unit #3 was retired at the end of 2013.

For these units, these retirements took place even after additional emission controls and operational strategies were applied. These applications include reduced sulfur content of the coal burned for SO₂ reduction, Activated Carbon Injection (ACI) for Mercury reductions, and Selective Non-Catalytic Reduction (SNCR) for NO_x reductions. On Unit 4, in addition to SNCR and ACI technology, in 2011 the facility installed a Circulating Dry Scrubber (CDS) with a Baghouse for removal of acid gases including SO₂ and HCl, metals, and particulate matter and Selective Catalytic Reduction (SCR) for NO_x reductions. These shutdowns, along with the additional controls, and the operation of the facility primarily for peak usage have reduced the overall on-site releases by 99.5% compared to 2003.

The Indian River Generating Station reported on nine TRI chemicals for 2016. Four of these were metal or metal compounds, three were acid gases, and the remaining two were dioxin and ammonia. All the compounds except ammonia are formed during the combustion process as a result of impurities within the coal and oil. Ammonia is a product of the nitrogen oxide emissions reduction process.

Coal analysis data, emissions data, and emissions factors are used as a basis for calculating releases. This gives a more representative total release for the year because it represents all the data for the year, not just the data collected during a single stack test.

Acid gasses including hydrochloric acid, sulfuric acid, and hydrofluoric acid accounted for 13% of the on-site releases for 2016 compared to 98% in 2011. On-site releases for acid gases in 2016 decreased by 98% compared to 2013. These decreases are due to the acid gases being treated on-site by the CDS control technology, to the shutdown of Unit 3, and to the operation of the facility primarily on peak electrical usage days.

Metal compounds, formed as a result of impurities in the coal, are largely captured (99.5%) in the fly ash and bottom ash. Coal ash is disposed of in the on-site landfill, which includes a liner system and leachate collection. For 2016, chromium, copper, manganese, and zinc were below the reporting threshold.

TRI FACILITY PROFILES

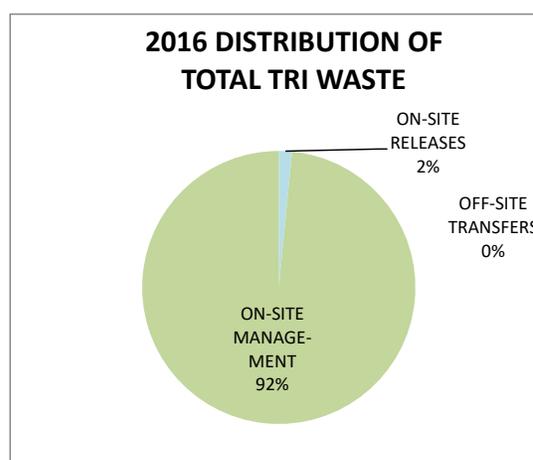
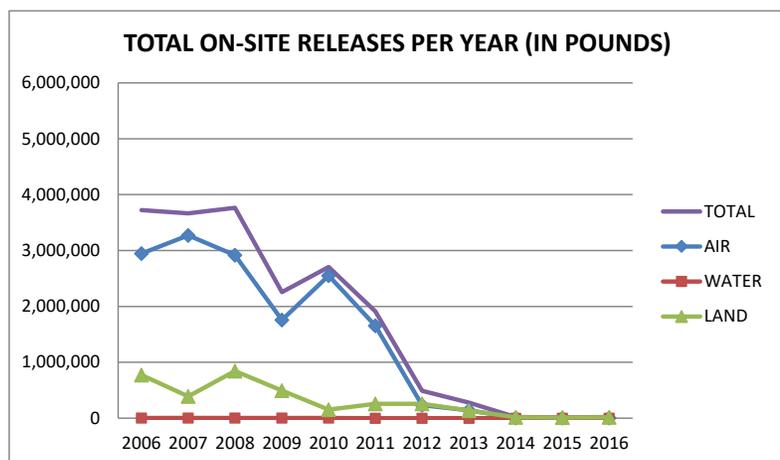
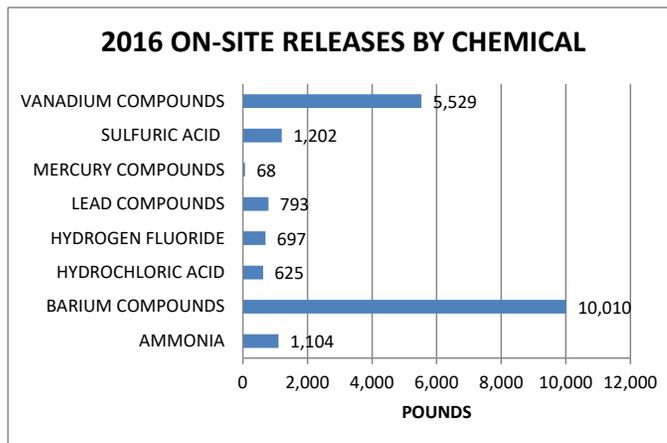
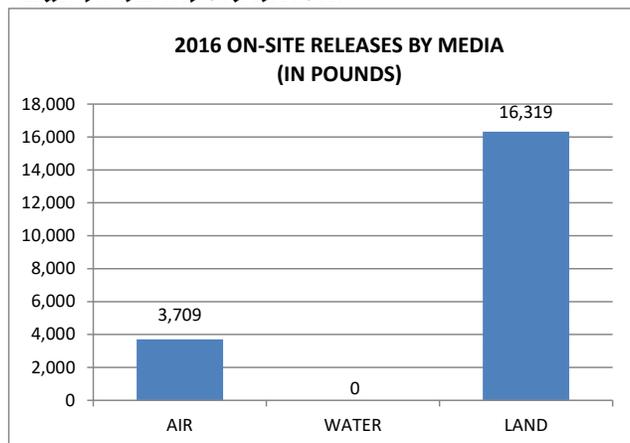


INDIAN RIVER GENERATING STATION, CONT.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
AMMONIA	1,104	0	0	1,104	0	59,101	NO	NO
BARIIUM COMPOUNDS	42	0	9,968	10,010	0	0	NO	NO
DIOXIN AND DIOXIN-LIKE COMPOUNDS	0.000243	0.000000	0.000000	0.000243	0.000000	0.000000	YES	NO
HYDROCHLORIC ACID	625	0	0	625	0	480,496	NO	NO
HYDROGEN FLUORIDE	697	0	0	697	0	51,674	NO	NO
LEAD COMPOUNDS	15	0	778	793	0	0	YES	YES
MERCURY COMPOUNDS	1.6000	0.0000	66.4000	68.0000	0.0000	0.0000	YES	NO
SULFURIC ACID	1,202	0	0	1,202	0	677,513	NO	NO
VANADIUM COMPOUNDS	23	0	5,506	5,529	0	0	NO	NO
TOTAL	3,709	0	16,319	20,028	0	1,268,784		

GRAPHICAL INFORMATION:

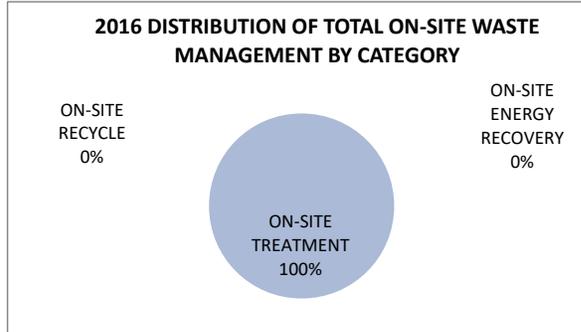




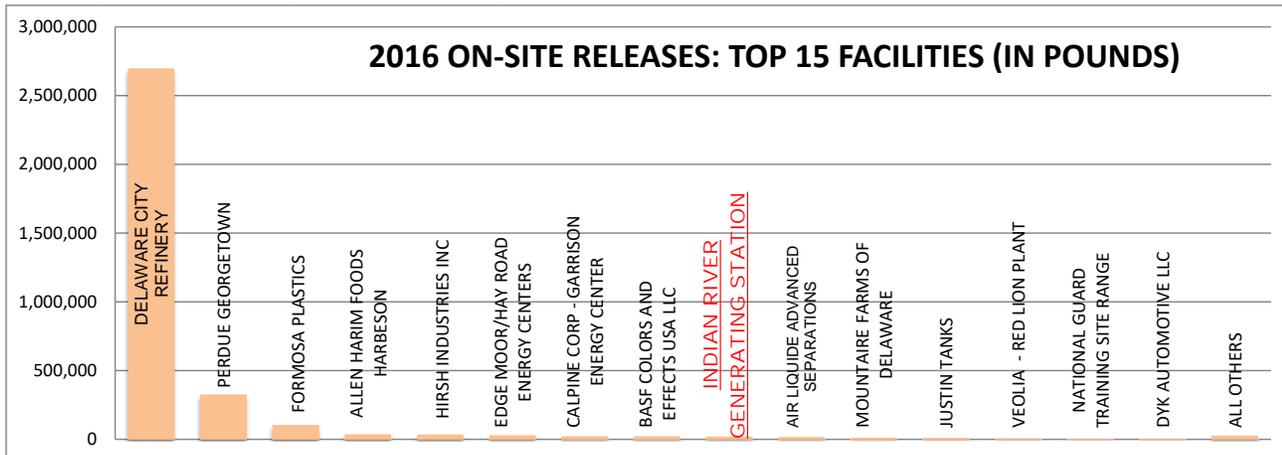
TRI FACILITY PROFILES

INDIAN RIVER GENERATING STATION, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

The Indian River Generating Station ranks 89th in on-site treatment of sulfuric acid aerosol by electric utility facilities (NAICS 2211) (out of 248 facilities).

The Indian River Generating Station ranks 100th in on-site treatment of hydrochloric acid aerosol by electric utility facilities (NAICS 2211) (out of 265 facilities).

INTERVET

LOCATION/CONTACT:

Address: 29160 Intervet Lane
Millsboro, DE 19966

Phone: (302) 934-4265

Contact: Tom Bastian



FACILITY OVERVIEW:

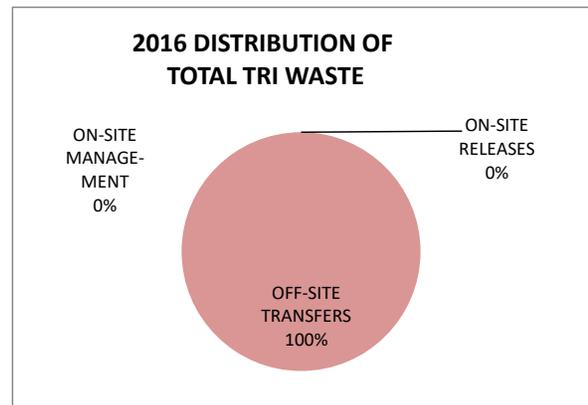
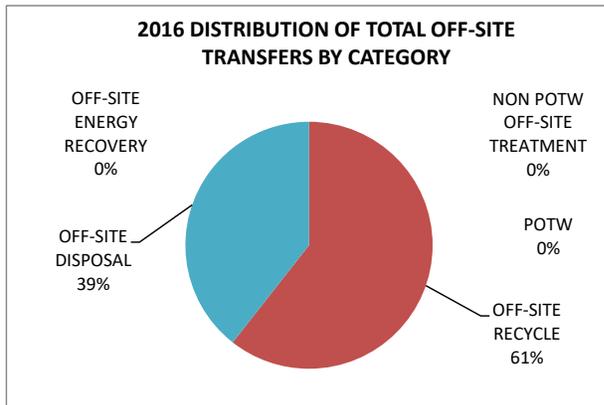
Intervet reported under the North American Industrial Classification System (NAICS) as 325414, which covers biological product manufacturing. The facility, located in Millsboro, is a fully integrated Animal Health site dedicated to the bio-manufacturing of animal vaccines.

Intervet has reported since 2000. The facility reported on one chemical, mercury compounds. All waste reported for mercury compounds were transferred off-site for recycle or disposal. Mercury compounds are utilized in the production of vaccines (Thimerosal) as a preservative and mercury containing light bulbs are at the site.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
MERCURY COMPOUNDS	0.0000	0.0000	0.0000	0.0000	3.0200	0.0000	YES	NO
TOTAL	0	0	0	0	3	0		

GRAPHICAL INFORMATION:



INTERVET, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Intervet ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

Intervet ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

Intervet ranks 38th in the off-site transfer of mercury compounds for chemical facilities (NAICS 325) (out of 99 facilities).



TRI FACILITY PROFILES

JOHNSON CONTROLS BATTERY PLANT

LOCATION/CONTACT:

Address: 700 N. Broad Street
Middletown, DE 19709

Phone: (302)-376-4001

Contact: Todd Treybal



FACILITY OVERVIEW:

Johnson Controls Battery Plant manufactures the internal lead parts of batteries that are formed and filled 1.5 miles away at their Middletown Distribution Center, before being shipped to customers. These completed batteries are used in a wide variety of vehicle types including passenger, commercial, agricultural, golf carts, and boats.

Johnson Controls Battery plant has reported since 1987. The facility reported on two chemicals in 2016, with on-site releases from lead compounds to air and water, and from antimony compounds to air. Lead compounds are utilized in the manufacturing of the battery’s internal (positive and negative) plates, and for completing the circuit between these plates throughout the battery. The other chemical reported was antimony compounds, an impurity within the lead received from smelters, which is recycled off-site. The facility assumes worst case for this impurity, which is 3% of all lead.

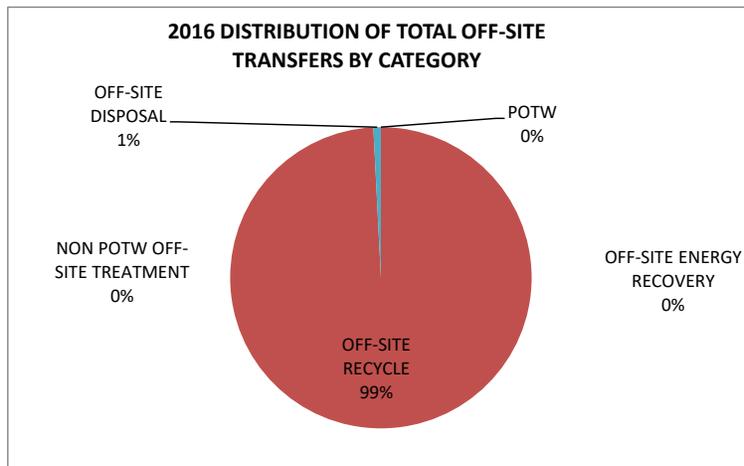
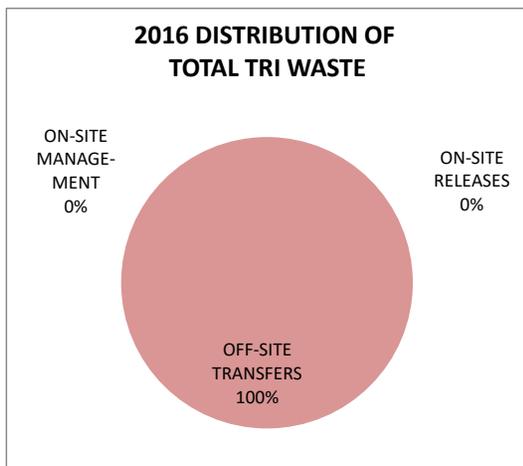
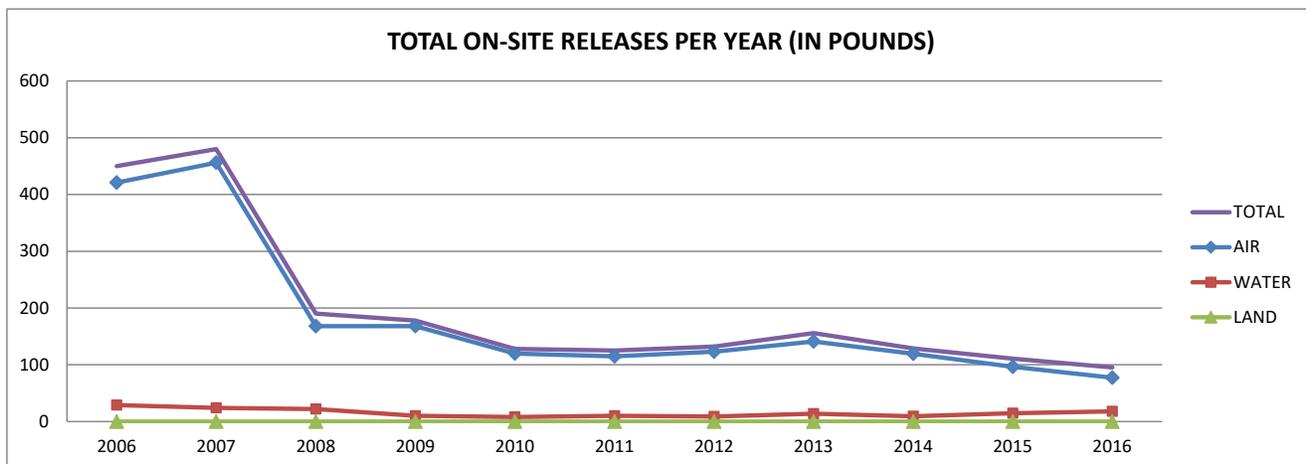
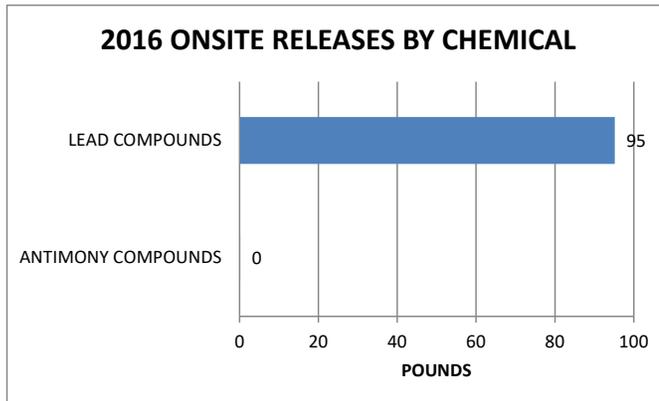
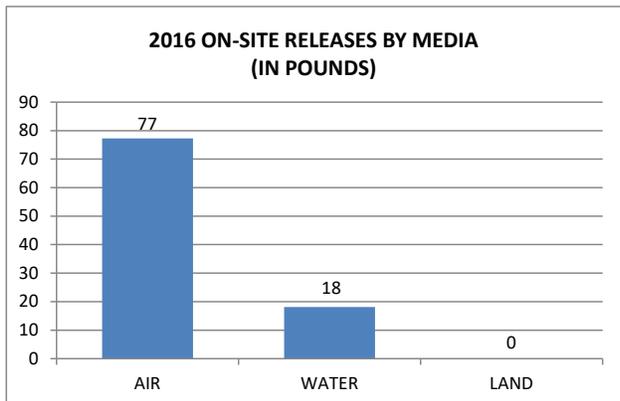
The majority of waste is sent off-site for recycling, with less than 0.01 % being released on-site. On-site releases for 2016 decreased by 14.4% compared to 2015 (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
ANTIMONY COMPOUNDS	0.2	0	0	0	12,696	0	NO	NO
LEAD COMPOUNDS	77	18	0	95	2,890,014	0	YES	YES
TOTAL	77	18	0	95	2,902,710	0		

JOHNSON CONTROLS BATTERY PLANT, CONT.

GRAPHICAL INFORMATION:

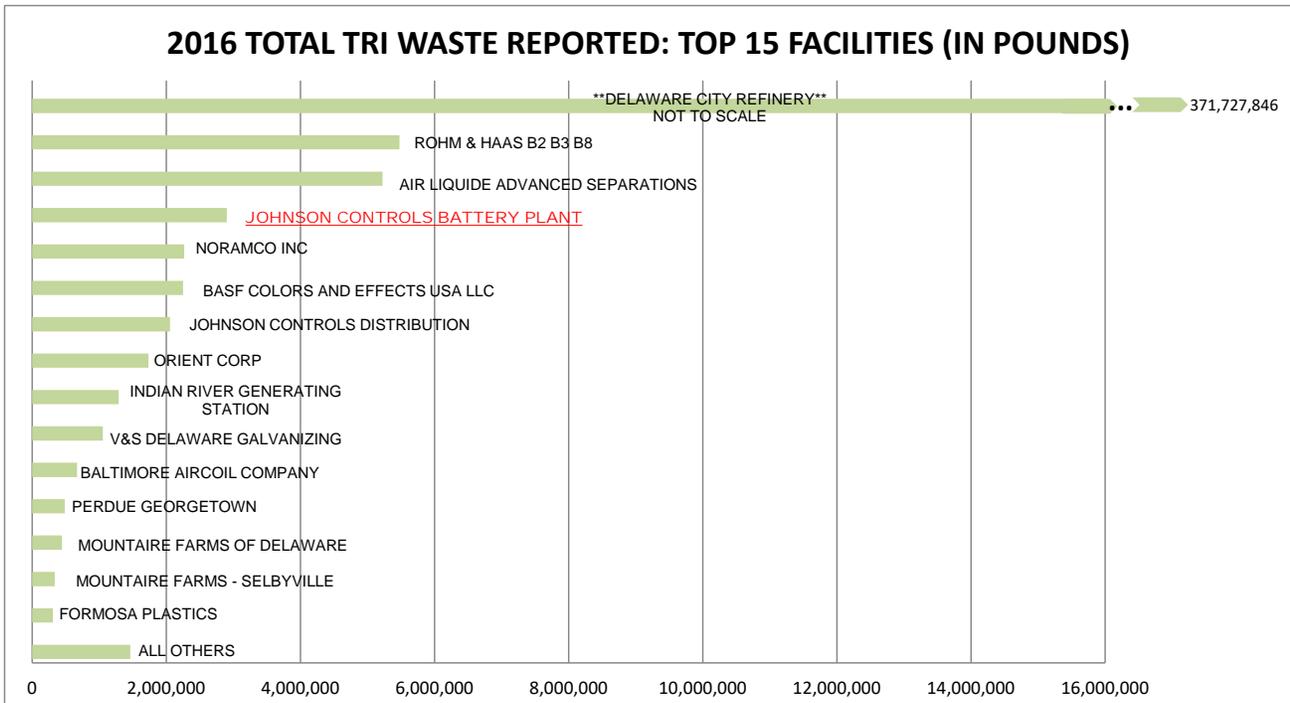
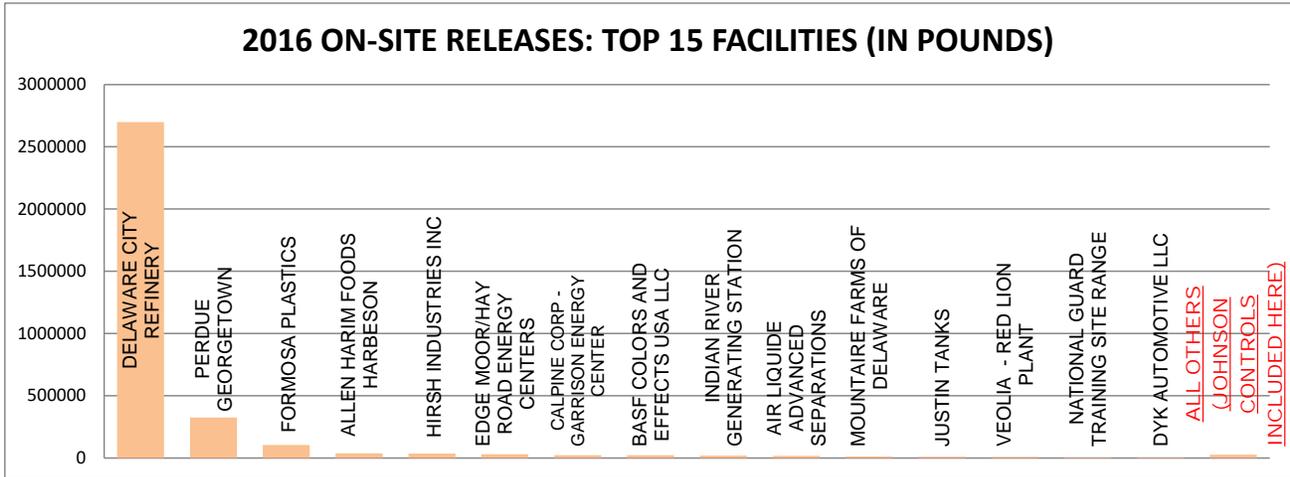




TRI FACILITY PROFILES

JOHNSON CONTROLS BATTERY PLANT, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

The Johnson Controls Battery Plant ranks 17th in the nation for off-site transfers of lead compounds (out of 3,859 facilities).



TRI FACILITY PROFILES

JOHNSON CONTROLS DISTRIBUTION CENTER

LOCATION/CONTACT:

Address: 50 Patriot Drive
Middletown, DE 19709

Phone: (302)-696-3209

Contact: Tami Kemske



FACILITY OVERVIEW:

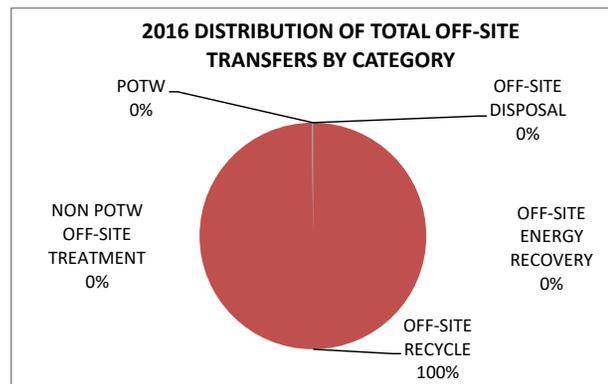
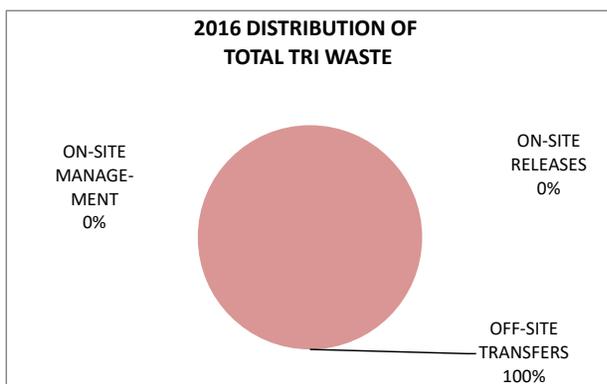
Johnson Controls Distribution Center forms and fills batteries, then prior to shipping; the batteries are washed and then labeled with the decal specified by the customer. From their battery plant, that is located 1.5 miles away in Middletown, the batteries are mostly shipped to customers within the Northeast. These batteries are used in a wide variety of vehicle types including passenger, commercial, agricultural, golf carts, and boats. In addition to many types of batteries Johnson Controls Middletown Distribution Center ships, there are just as many brands that leave the facility each day as well.

Johnson Controls Distribution Center has reported since 2011. The facility reported on three chemicals in 2016, lead compounds, antimony compounds, and arsenic compounds. These metal compounds are utilized in the construction of (primarily lead) batteries, and more than 99.99% of the amounts reported are sent off-site for recycling. The metal compounds that are shipped off-site for recycling are from the in-plant junks and warranty returns from customers.

2016 TRI DATA (REPORTED IN POUNDS):

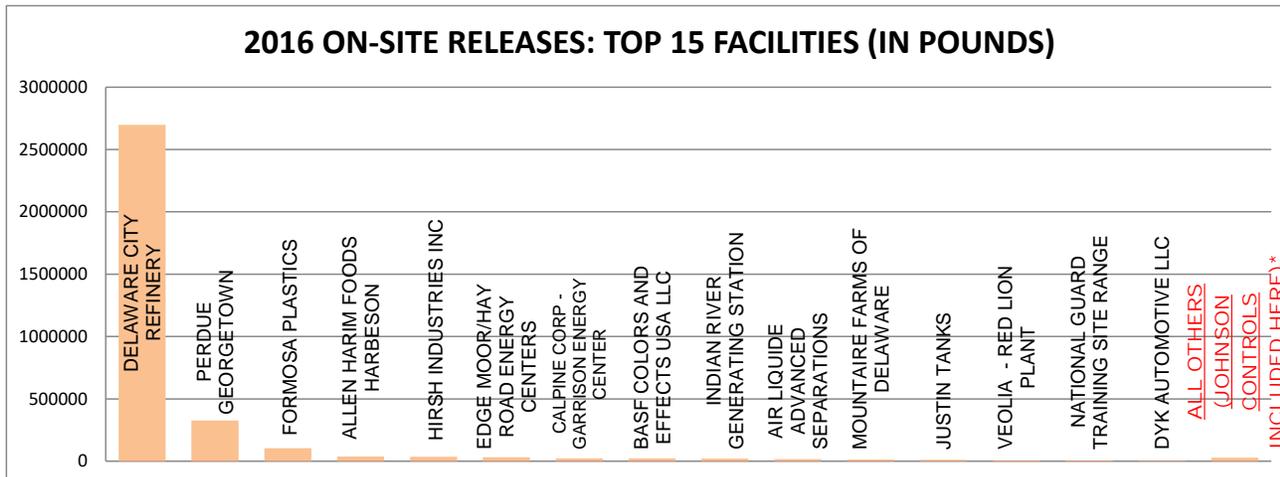
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
ANTIMONY COMPOUNDS	0	0	0	0	8,639	0	NO	NO
ARSENIC COMPOUNDS	0	0	0	0	532	0	NO	YES
LEAD COMPOUNDS	0	0	0	0	2,046,814	0	YES	YES
TOTAL	0	0	0	0	2,055,985	0		

GRAPHICAL INFORMATION:

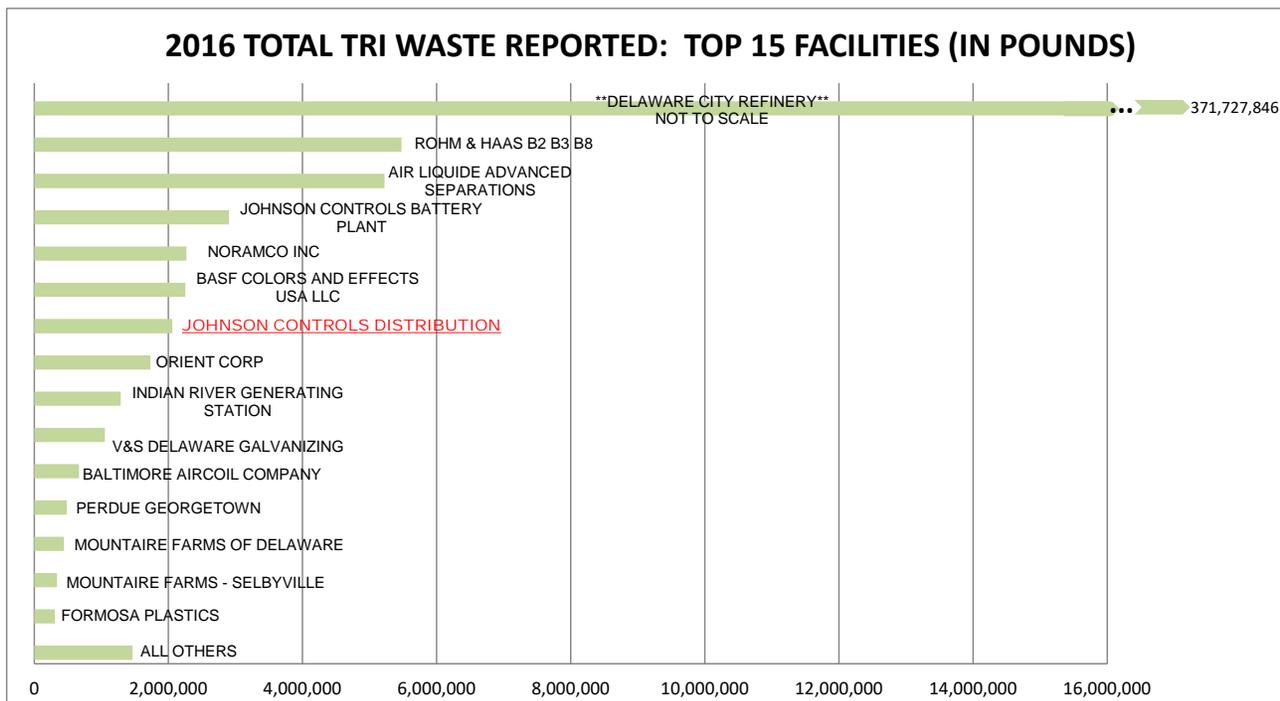


**JOHNSON CONTROLS
DISTRIBUTION CENTER, CONT.**

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



*The Johnson Controls Distribution Center ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site. Comparisons only include facilities reporting on Form R.



NOTABLE 2016 NATIONAL RANKINGS:

The Johnson Controls Distribution Center ranks 24th in off-site transfers of lead compounds (out of 3,859 facilities).

JUSTIN TANKS

LOCATION/CONTACT:

Address: 21413 Cedar Creek Ave.
Georgetown, DE 19947

Phone: (302)-856-3521



FACILITY OVERVIEW:

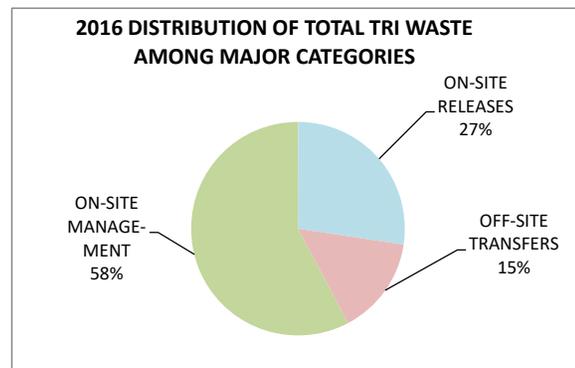
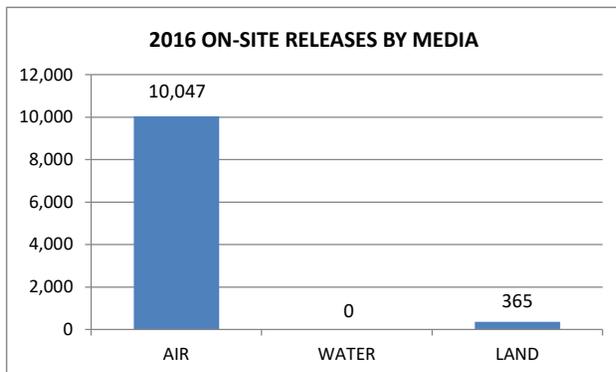
Justin Tanks, located in Georgetown, manufactures a wide variety of Fiberglass Reinforced Plastic (FRP) tanks for use in the chemical, agricultural, and food industries.

Justin Tanks has reported since 1987. The facility reported on one TRI chemical, styrene, for 2016. Styrene is used as a monomer in the polymerization of fiberglass resin. The majority of the styrene is released to the air during the process of applying fiberglass reinforcement to the tank. During polymerization and curing, small amounts of styrene are released, and the amount of styrene release diminishes to zero at full cure. No release occurs after the tank polymerization and curing process is complete. On-site release of styrene was down 23% for 2016, compared to 2015 (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

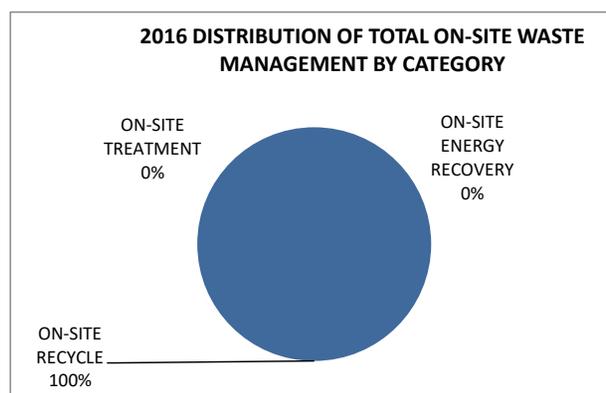
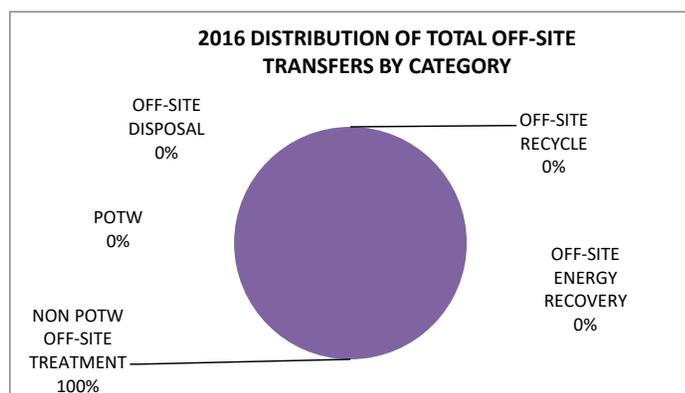
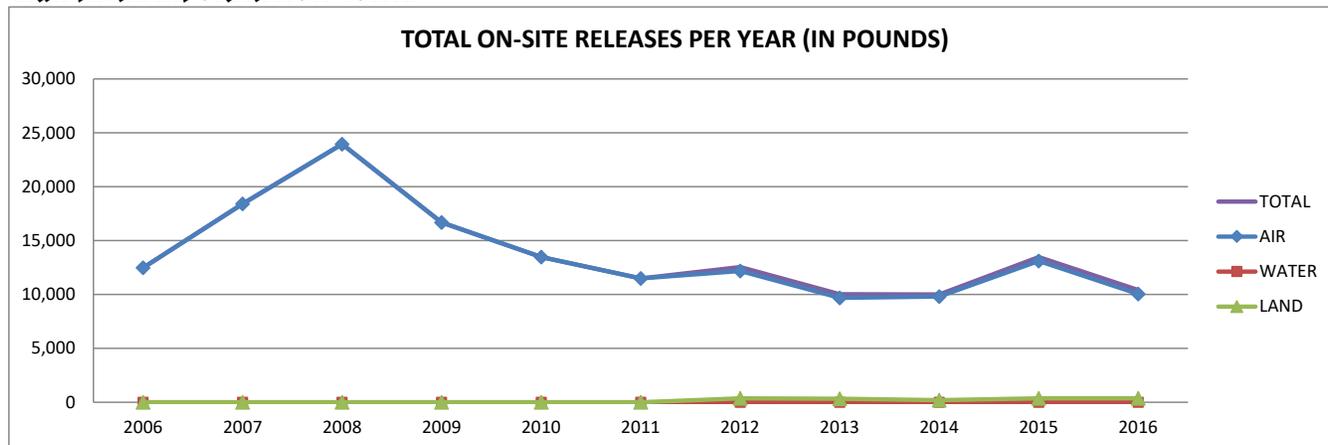
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
STYRENE	10,047	0	365	10,412	5,658	21,960	NO	YES
TOTAL	10,047	0	365	10,412	5,658	21,960		

GRAPHICAL INFORMATION:

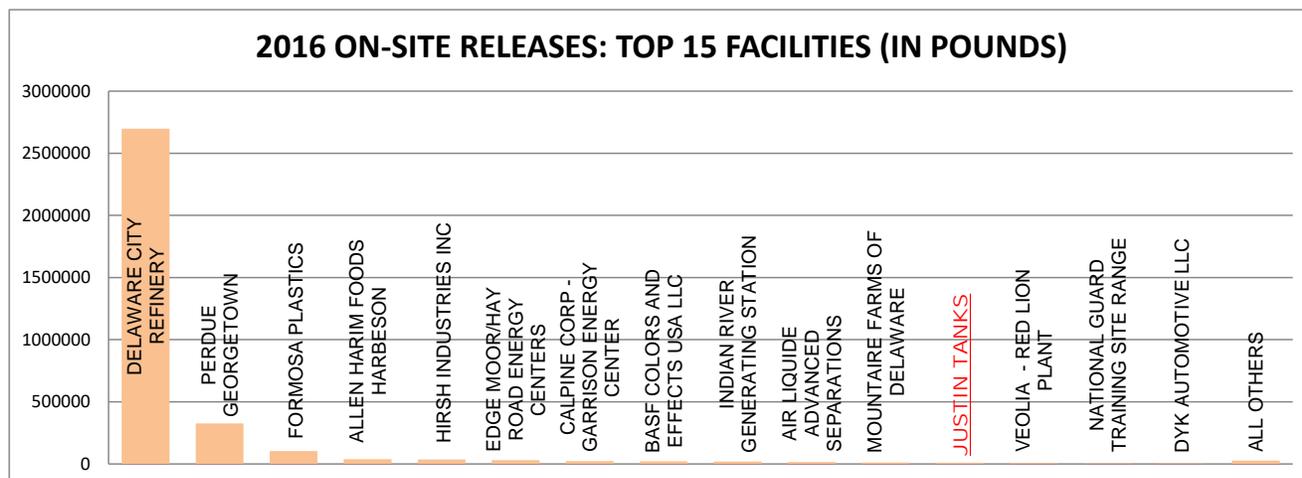


JUSTIN TANKS, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

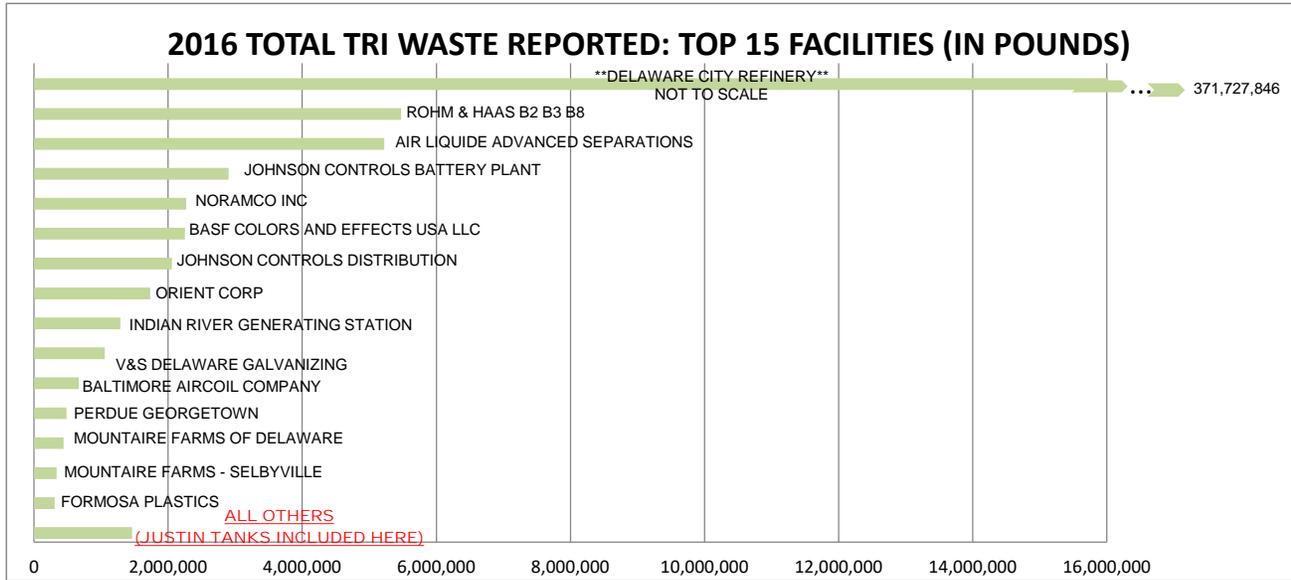




TRI FACILITY PROFILES

JUSTIN TANKS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT:



NOTABLE 2016 NATIONAL RANKINGS:

Justin Tanks ranks 8th in on-site recycling of styrene (out of 1,169 facilities).



TRI FACILITY PROFILES

KUEHNE

LOCATION/CONTACT:

Address: 1645 River Road
Delaware City, DE 19706

Phone: (302)-834-4557

Contact: Alan Rogers



FACILITY OVERVIEW:

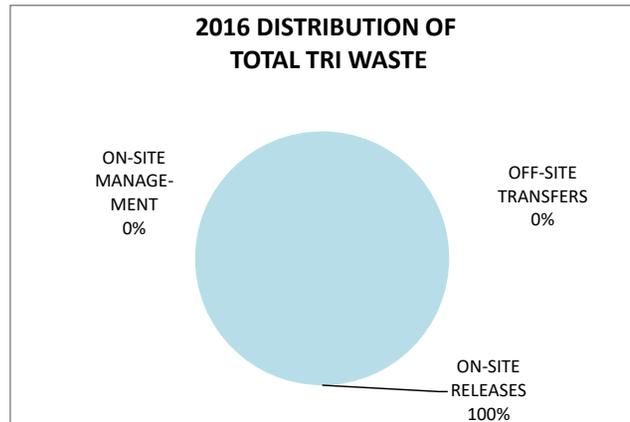
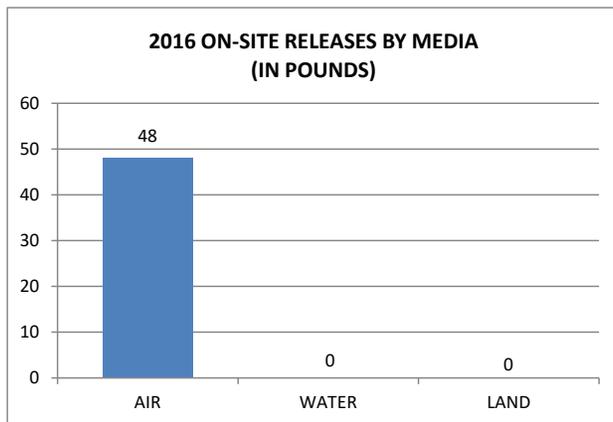
Kuehne reports under the North American Industrial Classification System (NAICS) as 325181, which covers the manufacturing of basic inorganic chemicals. Material produced at the facility is used primarily for municipal water and wastewater treatment.

Kuehne has reported since 1987, previously reporting under the company Chloramone. For 2016, the facility reported on one chemical, chlorine, with all on-site releases being made to air. Chlorine releases have decreased by 91% since 2014, due to the installation of a higher efficiency scrubber. Chlorine is repackaged for sale and also used in the production of sodium hypochlorite (bleach).

2016 TRI DATA (REPORTED IN POUNDS):

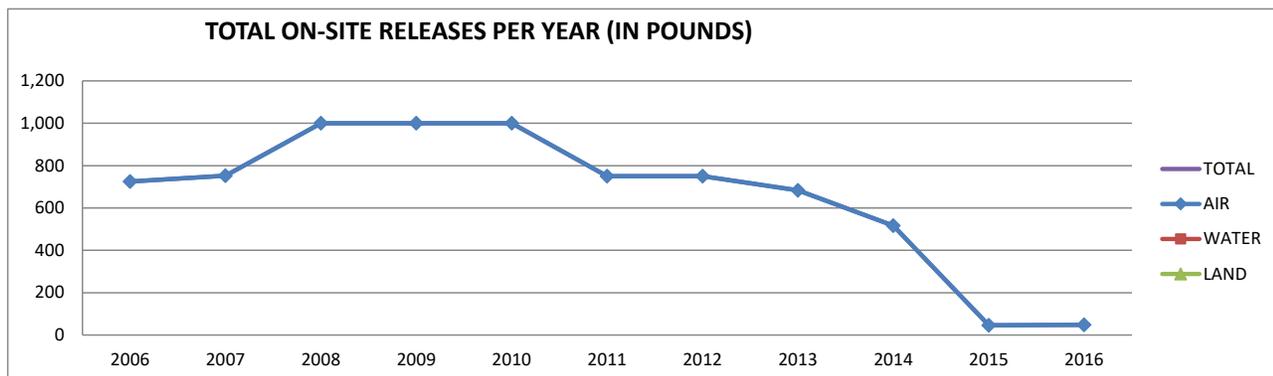
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHLORINE	48	0	0	48	0	0	NO	NO
TOTAL	48	0	0	48	0	0		

GRAPHICAL INFORMATION:

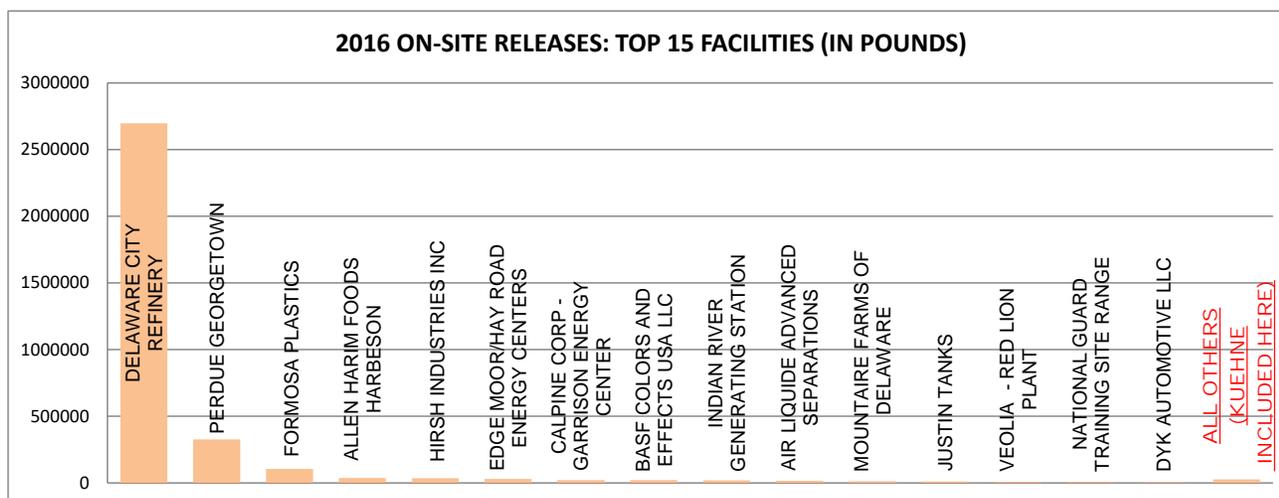


KUEHNE, CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



Kuehne ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

MACDERMID

LOCATION/CONTACT:

Address: 701 Industrial Drive
Middletown, DE 19709

Phone: (302)-378-3100

Contact: Ken McCullough



FACILITY OVERVIEW:

MacDermid, Inc., a Platform Specialty Products company, manufactures photopolymer resins for the graphic arts and printing industry. Photopolymer resin will crosslink when exposed to UV radiation and become rubber material suitable for use as flexible printing plates. MacDermid also cuts to size and laminates coated film from rolls produced by MacDermid, UK.

The facility has reported since 1987, previously as Hercules-Middletown. MacDermid reported two chemicals in 2016, diisocyanates and toluene diisocyanates (mixed isomers), both on short Form A. Isocyanates are used in the manufacture of polyurethanes which are precursors to photopolymer resins. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

A representative for the facility provided the information that "MacDermid is closing the Middletown site in December, 2017. Production is being located elsewhere."

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
DIISOCYANATES*	0	0	0	0	0	0	NO	NO
TOLUENE DIISOCYANATE (MIXED ISOMERS)*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500



TRI FACILITY PROFILES

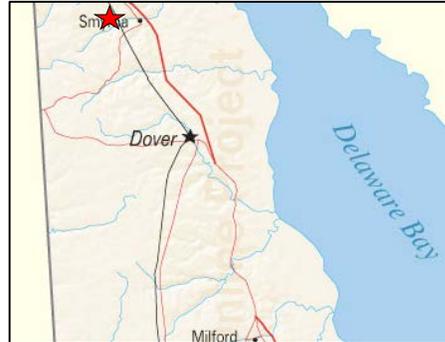
METAL MASTERS

LOCATION/CONTACT:

Address: 100 Industrial Blvd.
Clayton, DE 19938

Phone: (302)-653-3087

Contact: Richard Murphy



FACILITY OVERVIEW:

Eagle Group manufactures commercial stainless steel foodservice equipment. Their Metal Masters product line includes sinks, tables, food warming equipment, serving equipment, shelving of both solid and wire design, and custom fabrications. The raw metals are purchased in sheet or wire form and then sheared, punched, formed, welded, spot welded, ground and finished to produce an end product.

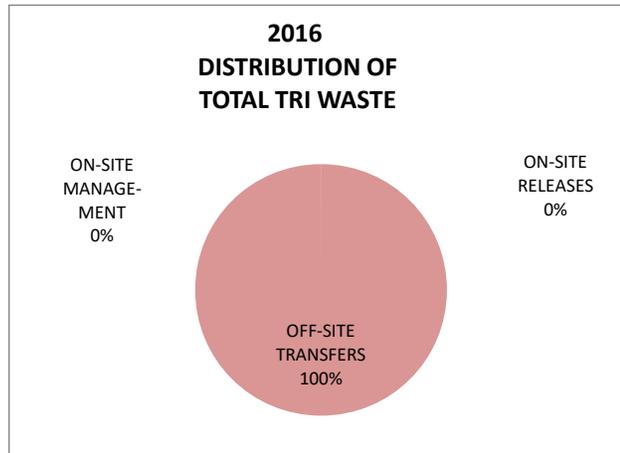
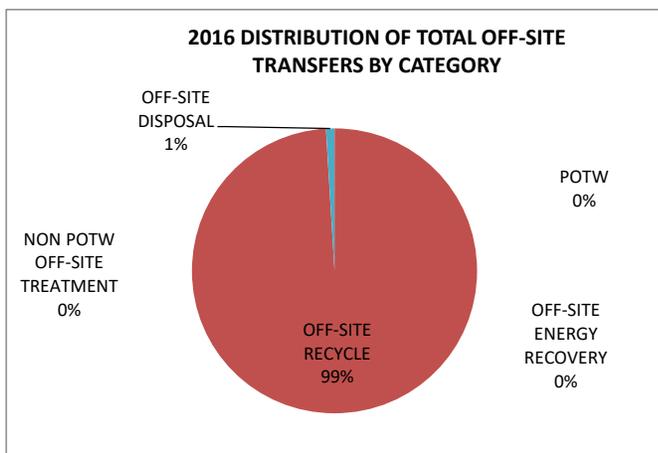
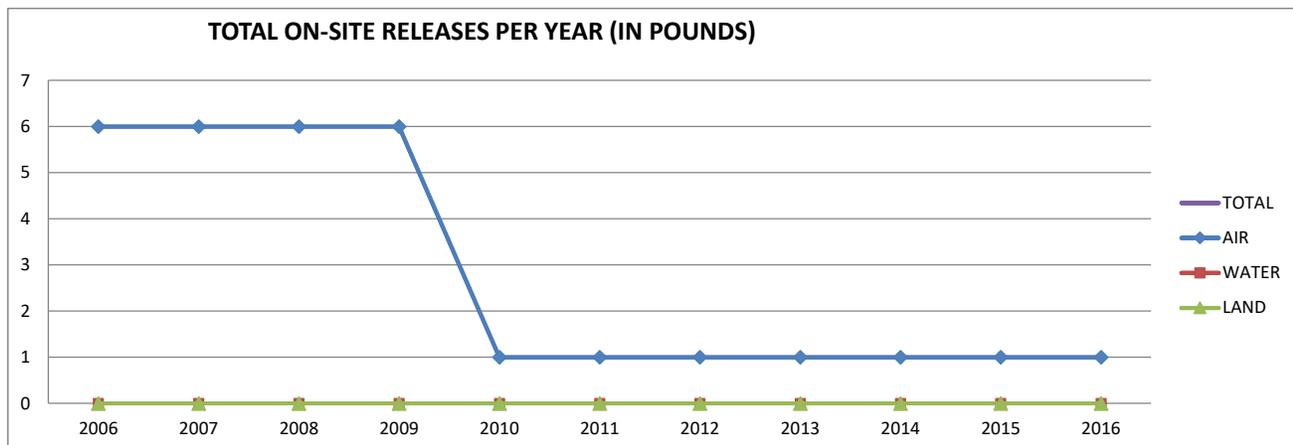
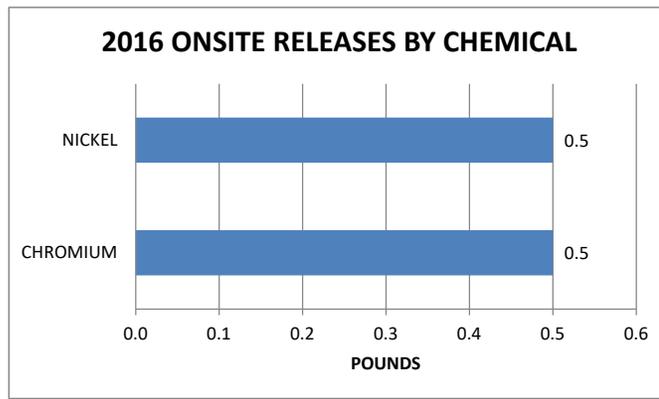
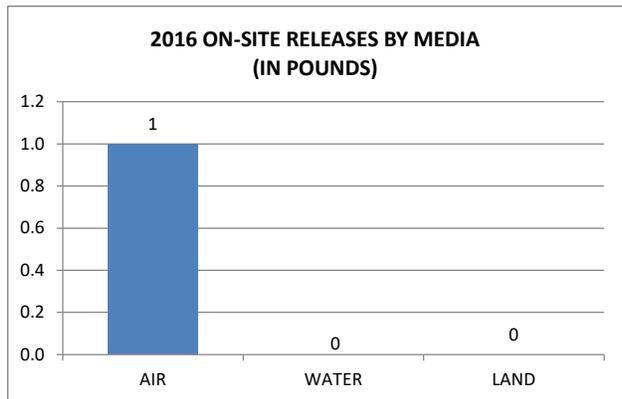
Metal Masters has reported since 2001. The facility reported on 2 chemicals in 2016, nickel and chromium, with on-site releases being only to air. These chemicals are component parts of the stainless steel and are released to air during the welding phase. These releases to air account for less than 0.01% of the total waste management. All scrap metal which is not able to be used for finished product is recycled off-site. A smaller portion of the waste that is generated as grinding dust is shipped off-site for disposal.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHROMIUM	0.5	0	0	0.5	211,137	0	NO	NO
NICKEL	0.5	0	0	0.5	69,595	0	NO	YES
TOTAL	1	0	0	1	280,732	0		

METAL MASTERS, CONT.

GRAPHICAL INFORMATION:

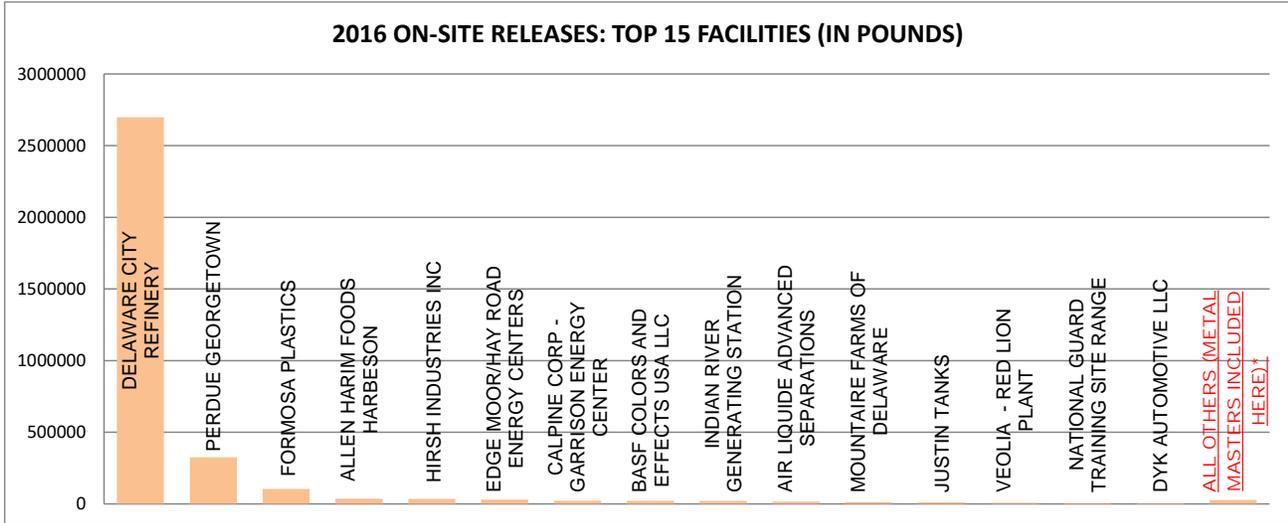




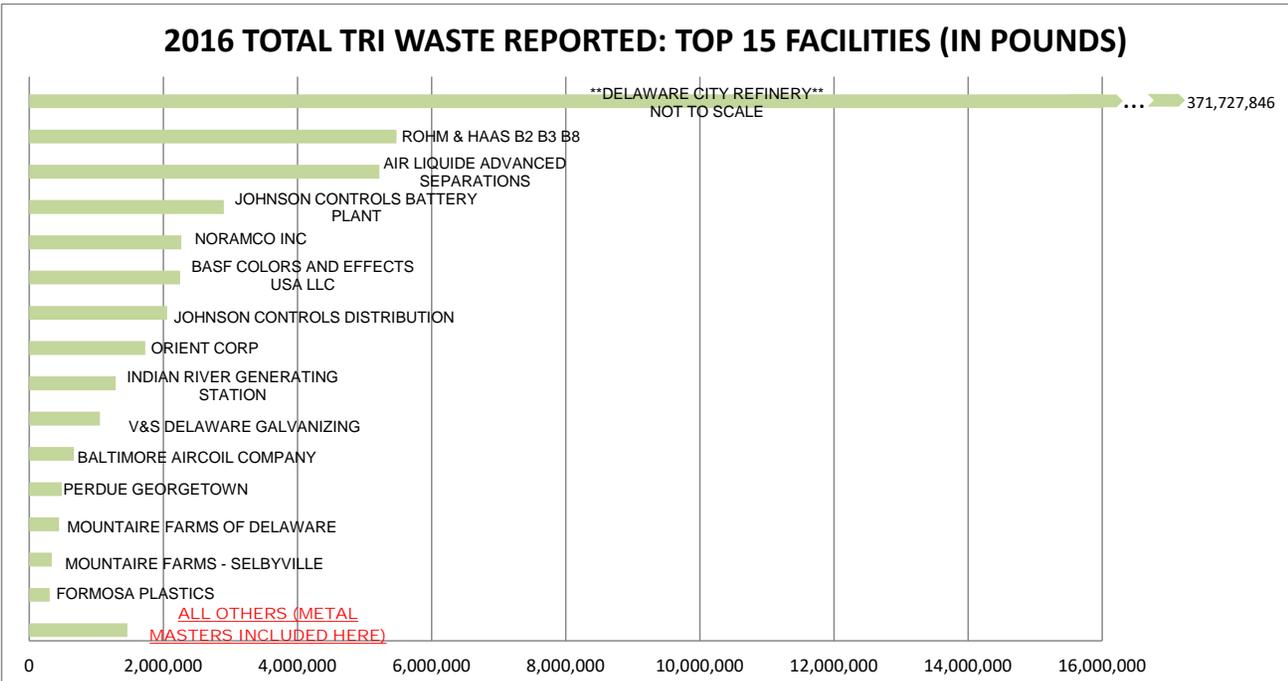
TRI FACILITY PROFILES

METAL MASTERS, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



*Metal Masters ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.



NOTABLE 2016 NATIONAL RANKINGS:

Metal Masters ranks 55th in off-site recycling of chromium for fabricated metal facilities (NAICS 332) (out of 906 facilities).



TRI FACILITY PROFILES

MOUNTAIRE FARMS OF DELAWARE

LOCATION/CONTACT:

Address: 29106 John J. Williams Highway
Millsboro, DE 19966

Phone: (302)-934-3123

Contact: Sean McKeon



FACILITY OVERVIEW:

Mountaire Farms of Delaware is located in Millsboro, and hatches chickens for growers, produces feed for poultry growers, produces poultry byproducts, and produces retail, wholesale and export chicken products.

The facility has reported since 1987, previously as Townends. For 2016, Mountaire Farms of Delaware reported five TRI chemicals, hydrogen sulfide, peracetic acid, and metallic compounds (Copper, Manganese, and Zinc). Hydrogen sulfide is a byproduct of anaerobic wastewater treatment. The metallic compounds are used in poultry feed and are reported on form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as lead, are ineligible for Form A.

Mountaire Farms in previous years has also reported on ammonia, a byproduct of poultry processing that is treated in the on-site wastewater treatment plant. Since the biological treatment of the wastewater fluctuates, ammonia is sometimes below the reporting threshold, which it was in 2016.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER COMPOUNDS*	0	0	0	0	0	0	NO	NO
HYDROGEN SULFIDE	11,905	0	0	11,905	0	95,110	NO	NO
MANGANESE COMPOUNDS*	0	0	0	0	0	0	NO	NO
PERACETIC ACID	409	0	0	409		335,619	NO	NO
ZINC COMPOUNDS*	0	0	0	0	0	0	NO	NO
TOTAL	12,314	0	0	12,314	0	430,729		

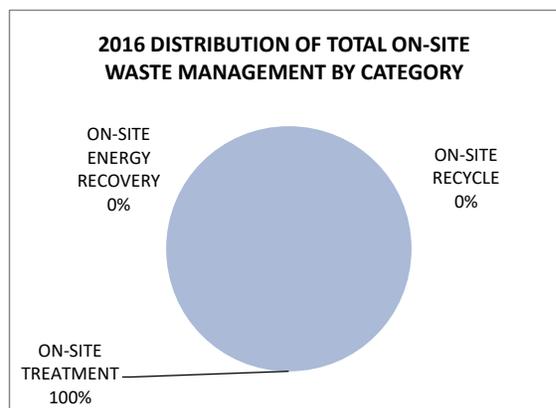
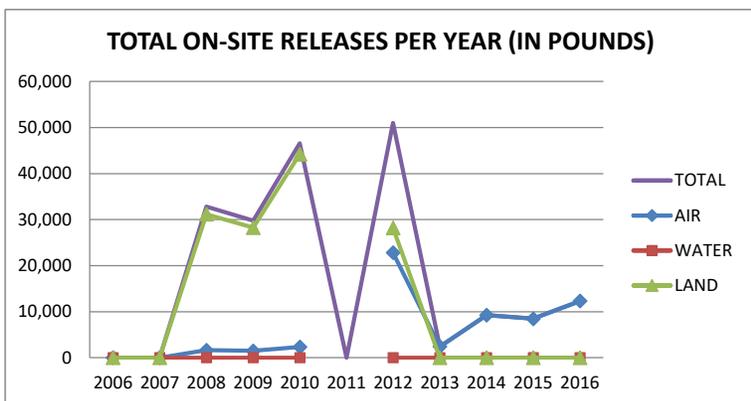
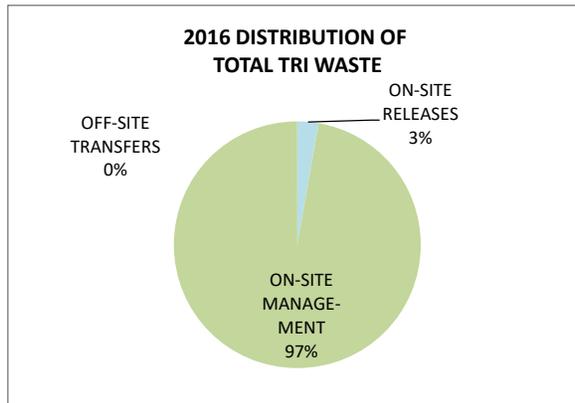
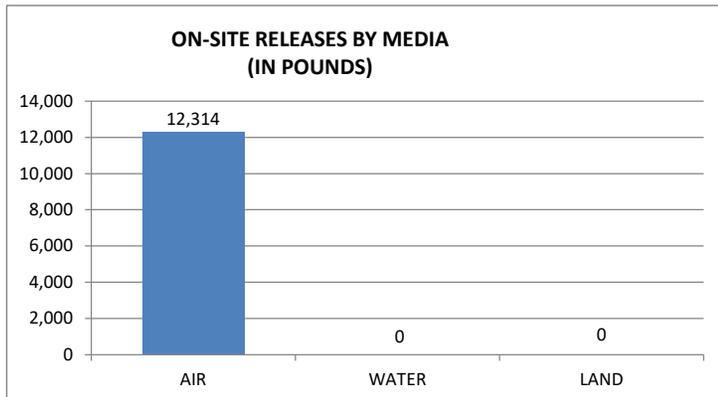
*Reported on short Form A

TRI FACILITY PROFILES

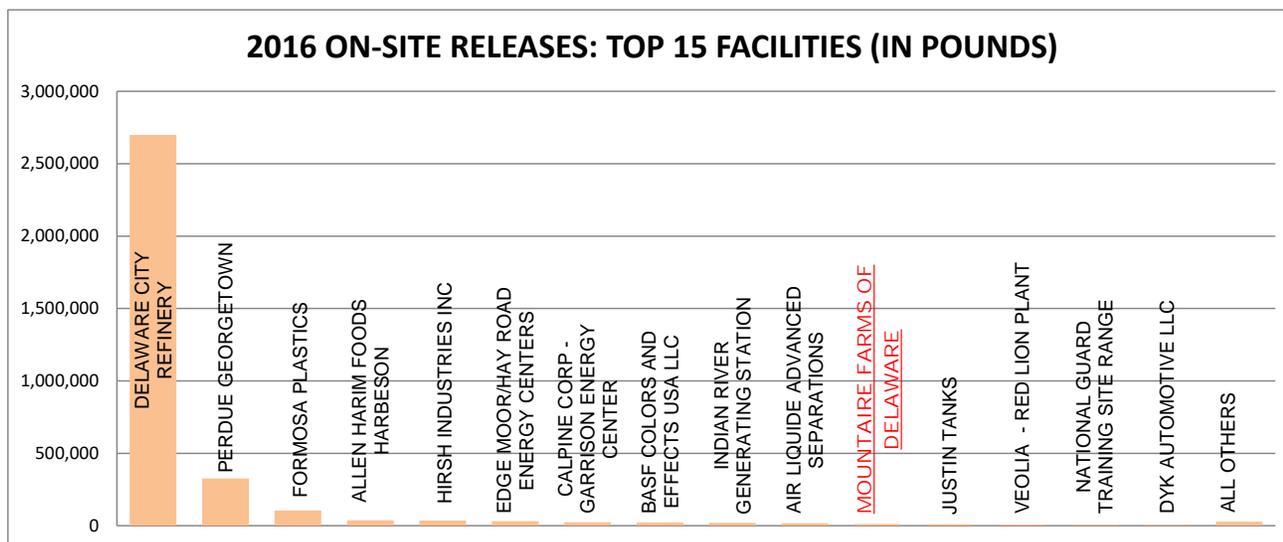


MOUNTAIRE FARMS OF DELAWARE, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

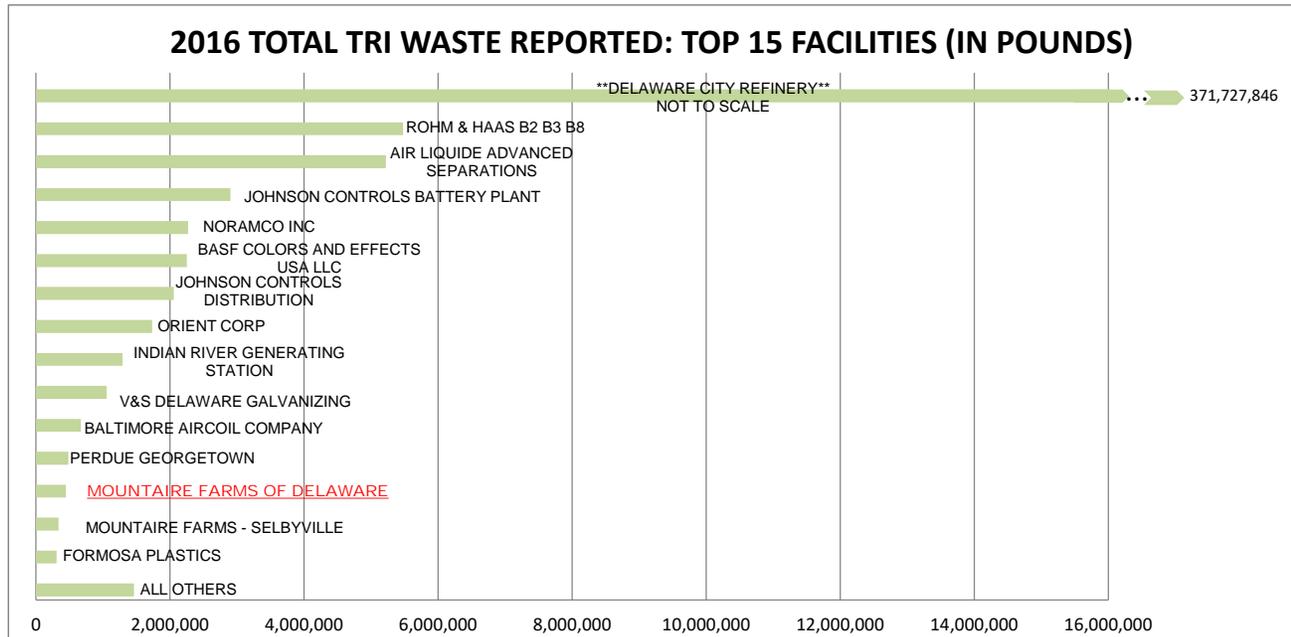




TRI FACILITY PROFILES

MOUNTAIRE FARMS OF DELAWARE, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:



NOTABLE 2016 NATIONAL RANKINGS:

Mountaire Farms of Delaware ranks 21st in the on-site treatment of hydrogen sulfide by food/beverage facilities (NAICS 311) (out of 81 facilities).

Mountaire Farms of Delaware ranks 11th in the on-site treatment of peracetic acid by food/beverage facilities (NAICS 311) (out of 212 facilities).



TRI FACILITY PROFILES

MOUNTAIRE FARMS- FRANKFORD

LOCATION/CONTACT:

Address: 11 Daisey Street
Frankford, DE 19945

Phone: (302)-934-3123

Contact: Sean McKeon



FACILITY OVERVIEW:

Mountaire Farms-Frankford reported under the North American Industrial Classification System (NAICS) as 311119, which covers animal food manufacturing, except facilities primarily engaged in custom grain grinding for animal feed. This location manufactures chicken feed.

Mountaire Farms-Frankford has reported since 1996. The facility reported on 3 chemicals in 2016, all on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as polycyclic aromatic compounds (PACs), are ineligible for Form A.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER COMPOUNDS*	0	0	0	0	0	0	NO	NO
MANGANESE COMPOUNDS*	0	0	0	0	0	0	NO	NO
ZINC COMPOUNDS*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.

MOUNTAIRE SELBYVILLE

LOCATION/CONTACT:

Address: Hoosier Street & Railroad Avenue
Selbyville, DE 19975

Phone: (302)-934-3123

Contact: Sean McKeon



FACILITY OVERVIEW:

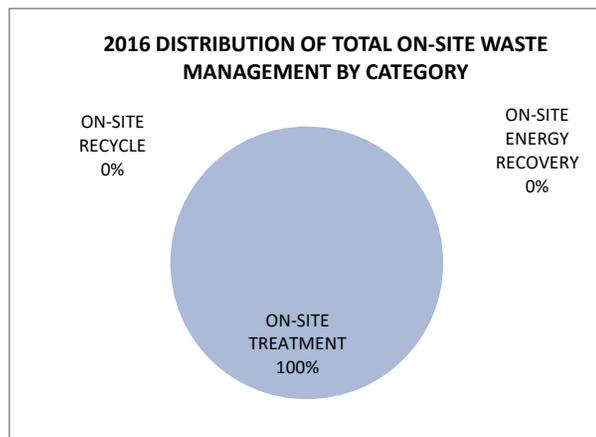
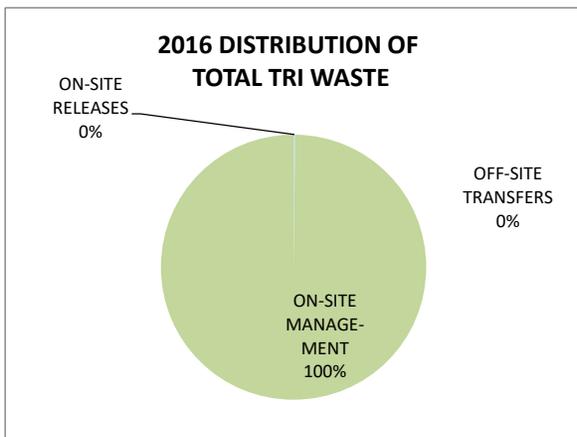
Mountaire Farms in Selbyville is a producer of poultry products. The facility processes chickens for sale to the retail market.

Mountaire Farms-Selbyville has reported since 1989, previously as Mountaire Farms of Delmarva; but was below the reporting threshold for about half of the years since 1989, so TRI Reports were not filed for those years. For 2015, the facility reported on one chemical, peracetic acid. Peracetic acid is found in a FDA-approved antimicrobial food treatment for pathogen reduction in poultry processing. The product is used in chilling and carcass washing equipment in the plant.

2016 TRI DATA (REPORTED IN POUNDS):

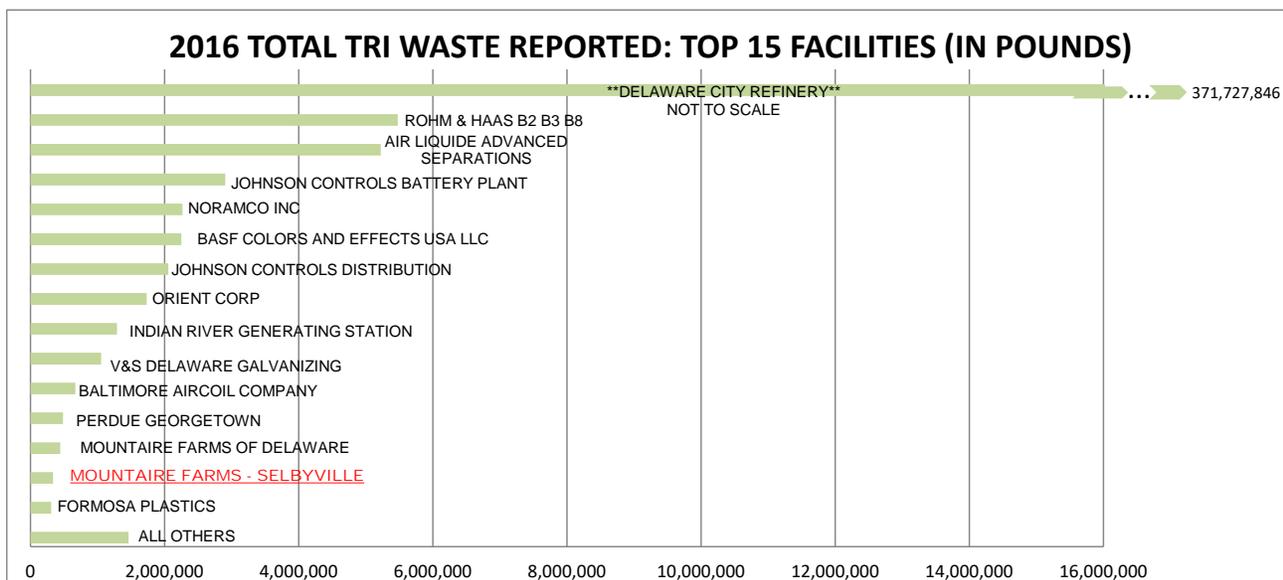
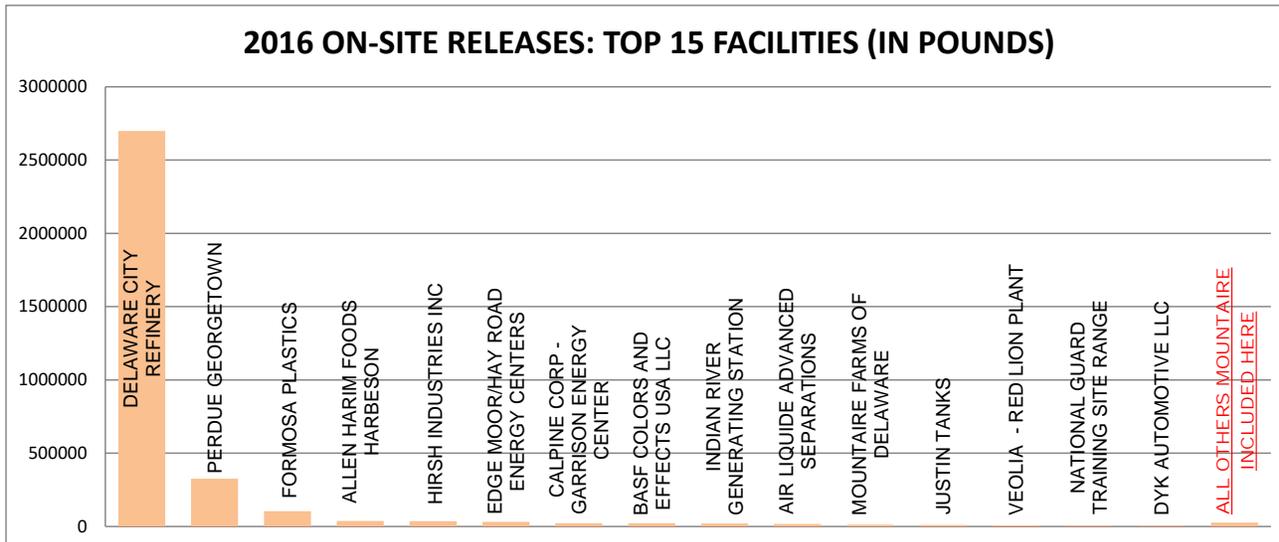
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
PERACETIC ACID	686	0	0	686	0	335,865	NO	NO
TOTAL	686	0	0	686	0	335,865		

GRAPHICAL INFORMATION:



MOUNTAIRE SELBYVILLE, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Mountaire Selbyville ranks 11th for on-site treatment of peracetic acid (out of 212 facilities).



TRI FACILITY PROFILES

NATIONAL GUARD TRAINING RANGE

LOCATION/CONTACT:

Address: 1197 River Road
New Castle, DE 19720

Phone: (302)-326-7490

Contact: Sgt. Sean Maynard



FACILITY OVERVIEW:

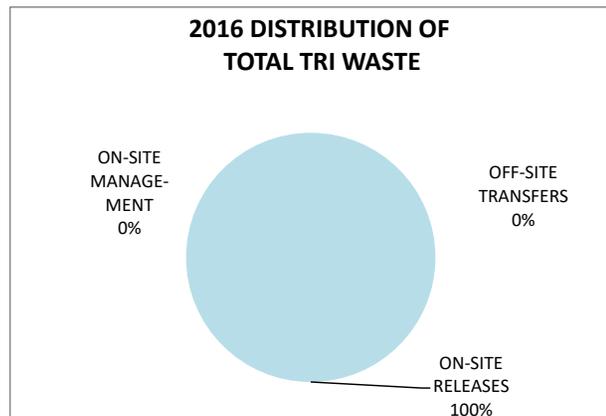
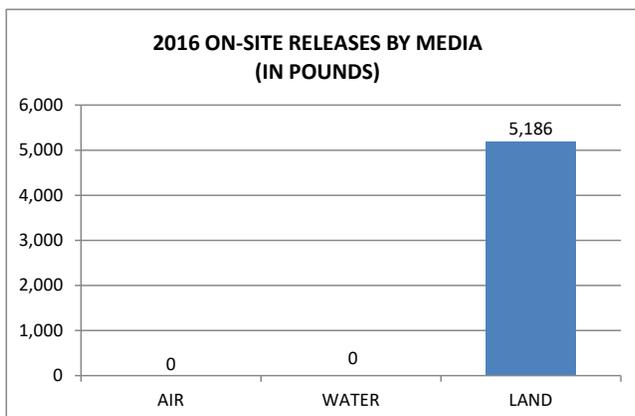
The U.S. Army's National Guard Training Site Range is a military installation that reports under the Federal Facility reporting requirements.

The National Guard Training Site Range reported for the first time in 2015, because they fell below the reporting threshold in prior years. Lead from ammunition is deposited in the earth berm at the site's firing range. Releases have decreased by 68% (11,000 pounds) since 2015. This was due to the facility being unaware of a TRI reporting exemption for non-military use of the firing range when they reported for 2015, and they plan to revise their 2015 TRI report for lead downward to reflect this. The National Guard Training Site Range is also used by local law enforcement agencies.

2016 TRI DATA (REPORTED IN POUNDS):

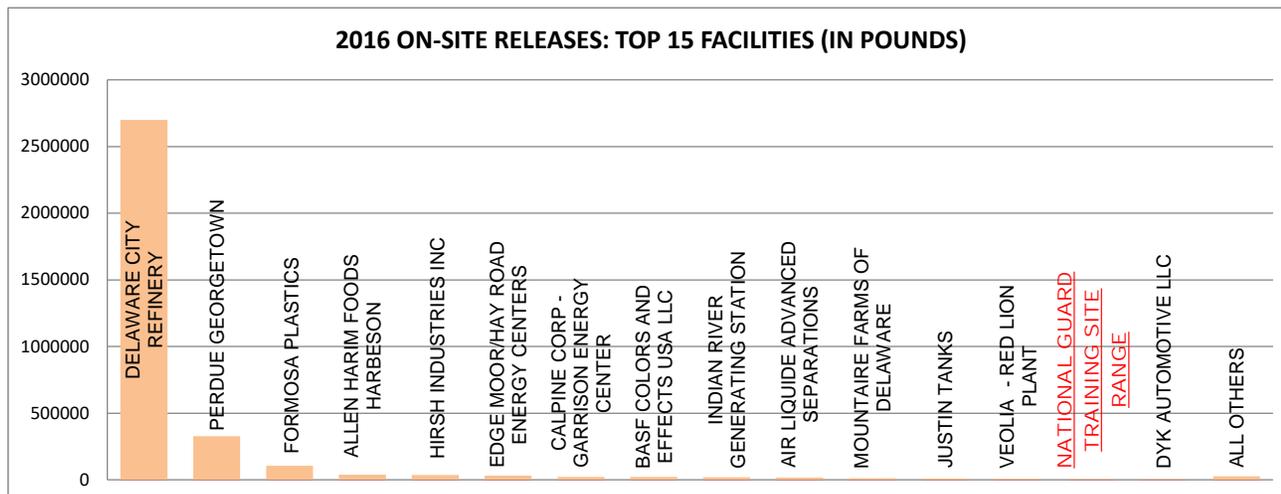
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD	0	0	5,186	5,186	0	0	YES	YES
TOTAL	0	0	5,186	5,186	0	0		

GRAPHICAL INFORMATION:



NATIONAL GUARD TRAINING RANGE, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



The U.S. Army's National Guard Training Range ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

NORAMCO

LOCATION/CONTACT:

Address: 500 Swedes Landing Road
Wilmington, DE 19801

Phone: (302)-888-4477

Contact: Eric Hacherl



FACILITY OVERVIEW:

Noramco, Inc. is currently owned by SK Capital. Noramco manufactures and markets Active Pharmaceutical Ingredients (APIs) and fine chemicals for other affiliated companies and for distribution to third-party trade customers. The majority of such trade sales consist of controlled substance pain management active pharmaceutical ingredients.

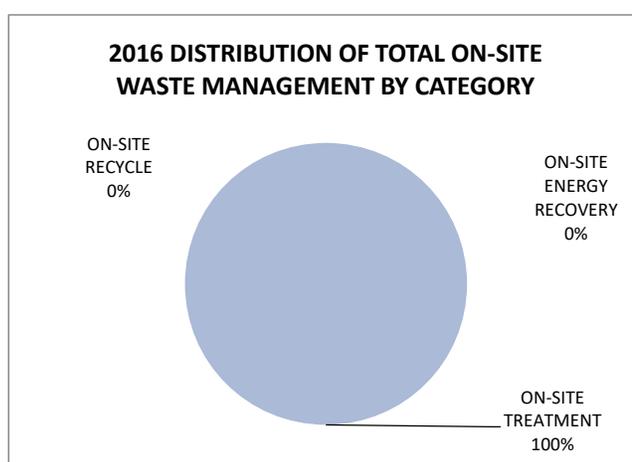
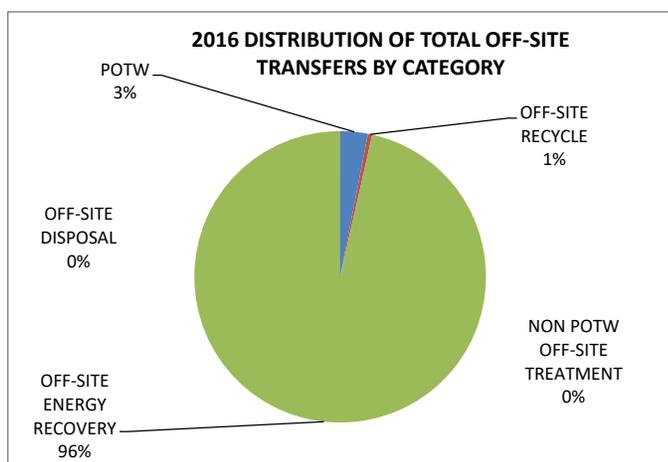
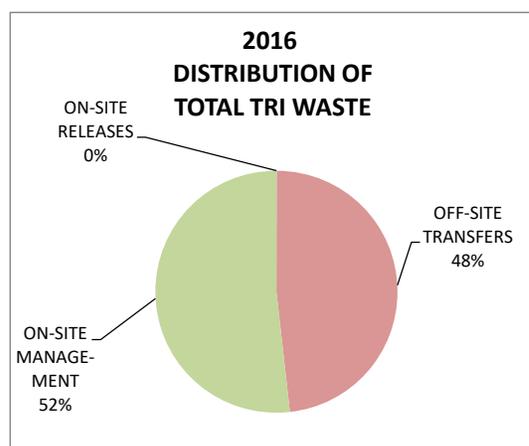
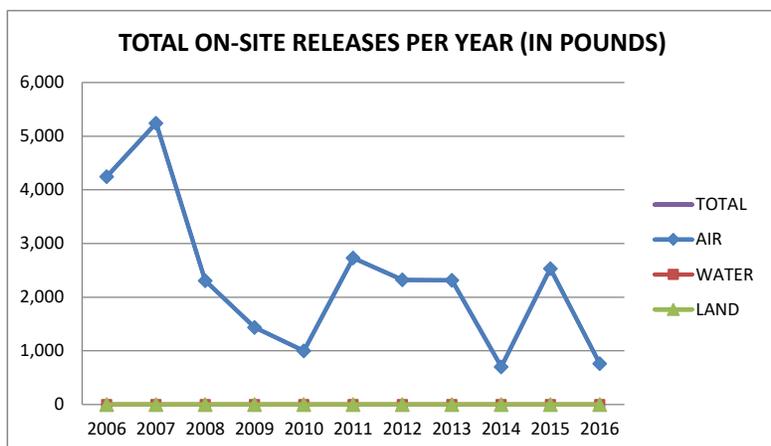
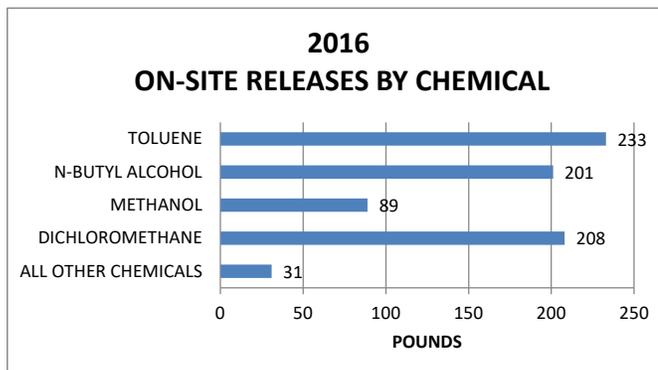
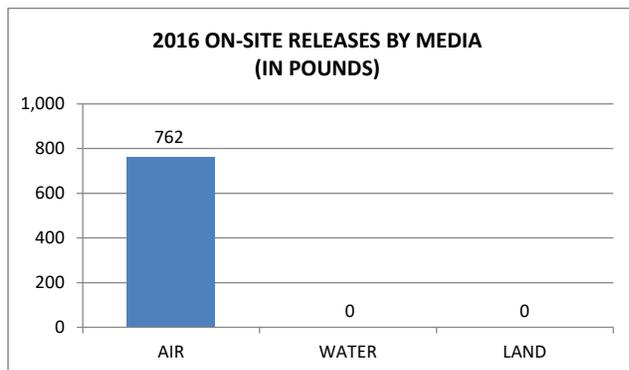
The facility has reported since 1987. Noramco reported seven chemicals in 2016, and all on-site releases of these chemicals were to the air. The chemicals reported are comprised mainly of solvents that are used in the separation, synthesis, and purification of small molecule APIs made from natural plant materials. For this reason, the usage and release quantities of these chemicals are primarily tied to Noramco's production volumes. On-site releases for Noramco have decreased by 70% since 2015; and by 82% since 2005, the result of utilizing lean manufacturing programs to reduce waste and unneeded chemical processing and leveraging new technologies and sustainable chemistry initiatives (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
DICHLOROMETHANE	208	0	0	208	5	0	NO	YES
ETHYLENE GLYCOL	10	0	0	10	5,215	0	NO	NO
FORMIC ACID	21	0	0	21	0	0	NO	NO
METHANOL	89	0	0	89	102,183	102,183	NO	NO
N-BUTYL ALCOHOL	201	0	0	201	566,261	566,261	NO	NO
PERACETIC ACID	0	0	0	0	0	86,818	NO	NO
TOLUENE	233	0	0	233	419,124	419,124	NO	NO
TOTAL	762	0	0	762	1,092,788	1,174,386		

NORAMCO, CONT.

GRAPHICAL INFORMATION:

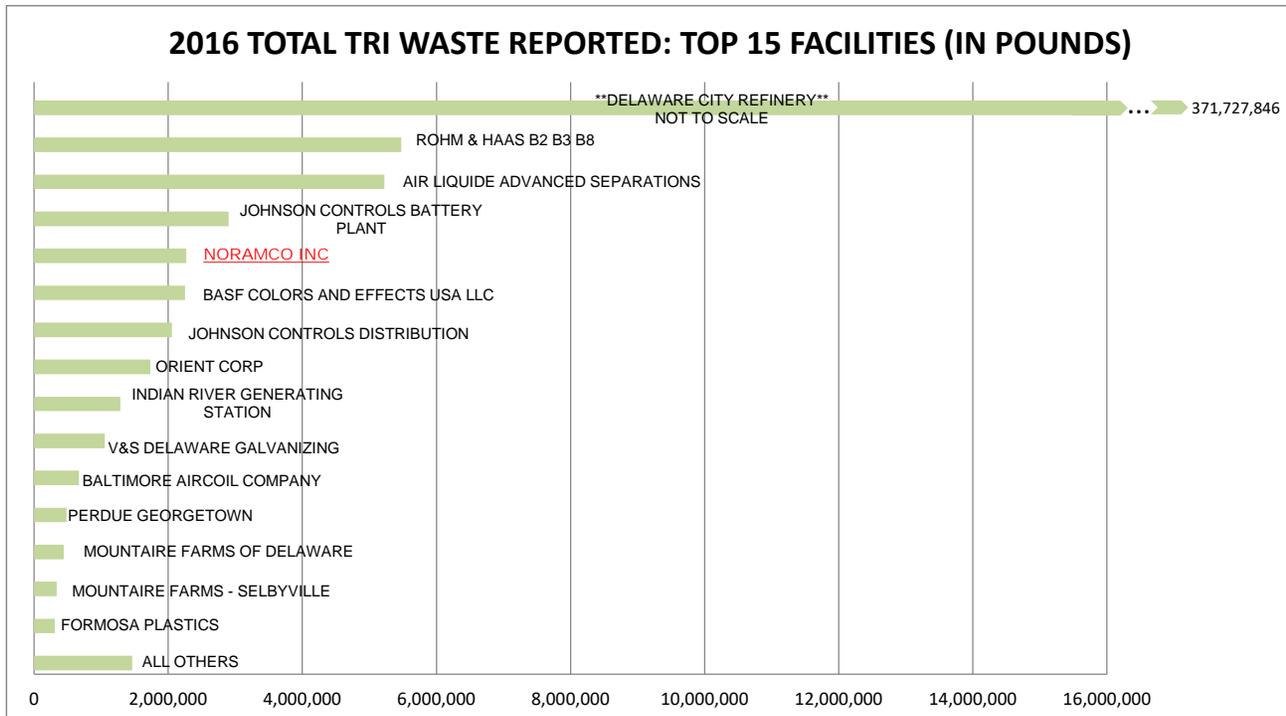
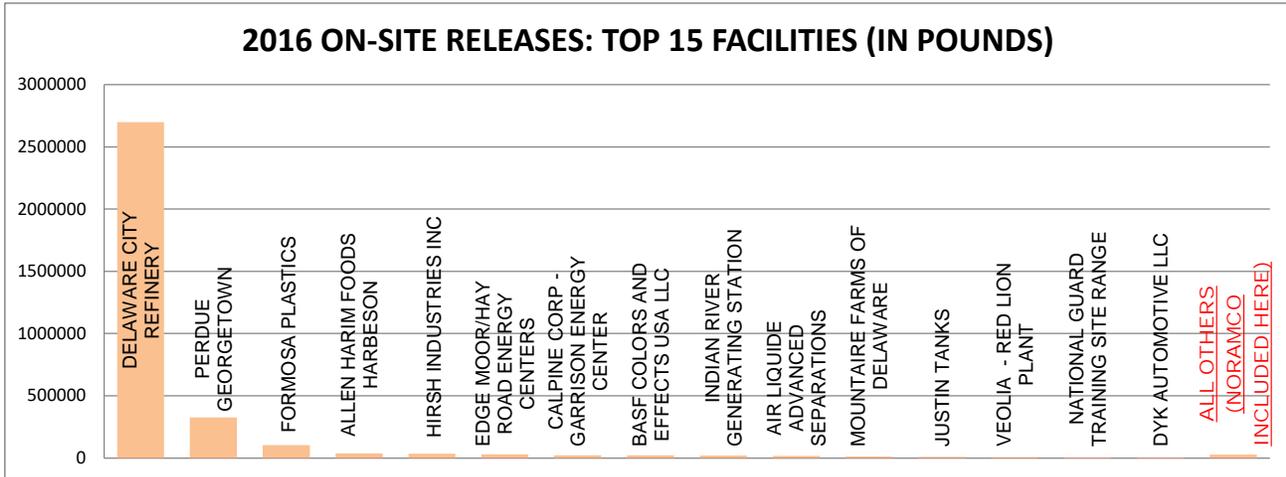




TRI FACILITY PROFILES

NORAMCO, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Noramco ranks 6th in the nation for off-site transfers of n-butyl alcohol (out of 713 facilities).

Noramco ranks 7th in the nation for on-site treatment of n-butyl alcohol (out of 713 facilities).



TRI FACILITY PROFILES

ORIENT CORPORATION

LOCATION/CONTACT:

Address: 111 Park Ave
Seaford, DE 19973

Phone: (302)-628-1300

Contact: Dave Curry



FACILITY OVERVIEW:

Orient Corporation distributes various dyes, pigment dispersions, and charge control agents. The Seaford plant produces nigrosine dye, a product used in phenolic and polyamide resins and specialty paints. Orient supplies a large share of domestic demand for this type of dye.

Orient has reported since 1992. The facility reported on four chemicals in 2016, with <100 pounds of on-site releases only to air. Aniline is the predominant on-site release, accounting for 96% of the total, with remaining 4% attributable to nitrobenzene. Aniline and nitrobenzene are both used in the production of dyes.

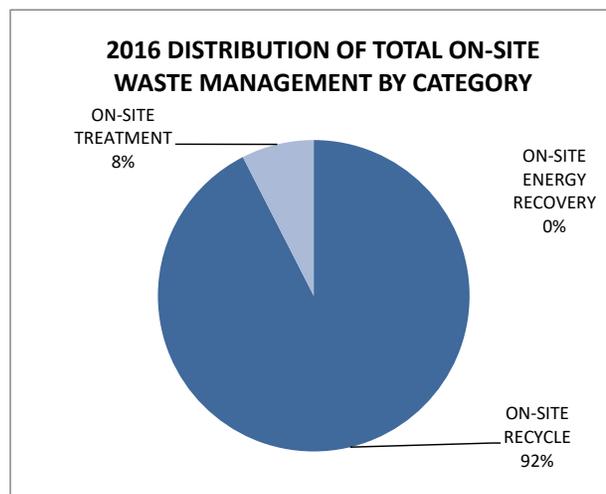
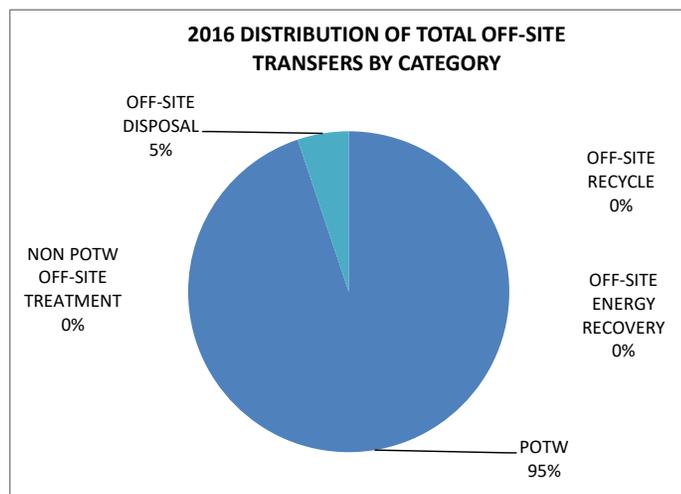
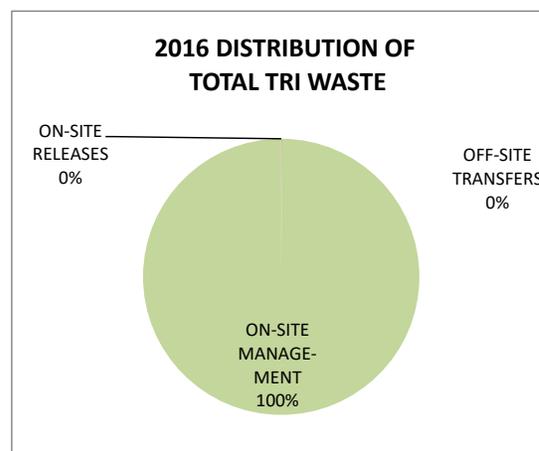
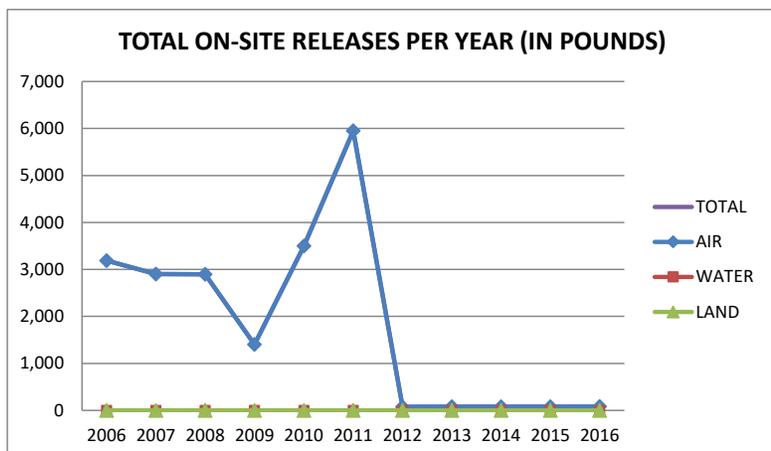
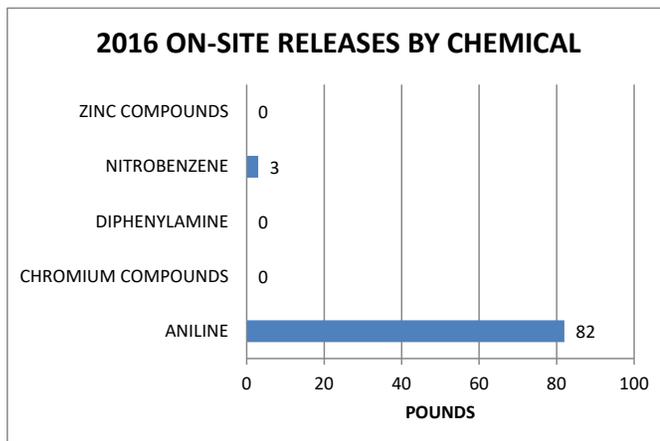
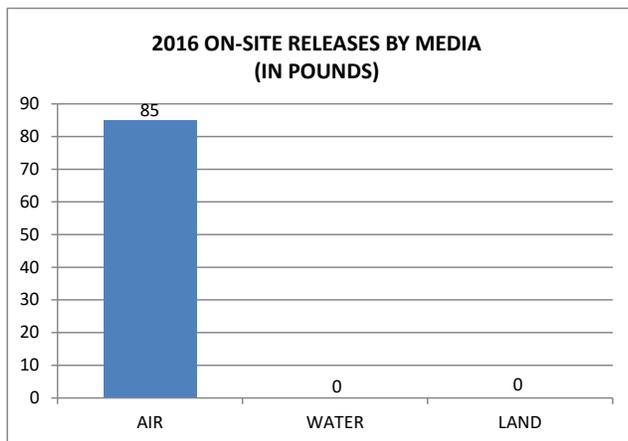
In 2011, TRI reports included more detailed calculations and analytical testing that were not used in previous years, resulting in higher releases reported. For the 2012 reporting year, a thermal oxidizer (installed in June 2011) was used for the calendar year for the destruction of aniline, which resulted in a decrease in on-site releases of 99% compared to 2011. (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
ANILINE	82	0	0	82	1,687	1,730,000	NO	NO
CHROMIUM COMPOUNDS	0	0	0	0	0	0	NO	YES
DIPHENYLAMINE	0	0	0	0	0	0	NO	NO
NITROBENZENE	3	0	0	3	0	0	NO	YES
ZINC COMPOUNDS	0	0	0	0	0	0	NO	NO
TOTAL	85	0	0	85	1,687	1,730,000		

ORIENT CORPORATION, CONT.

GRAPHICAL INFORMATION:

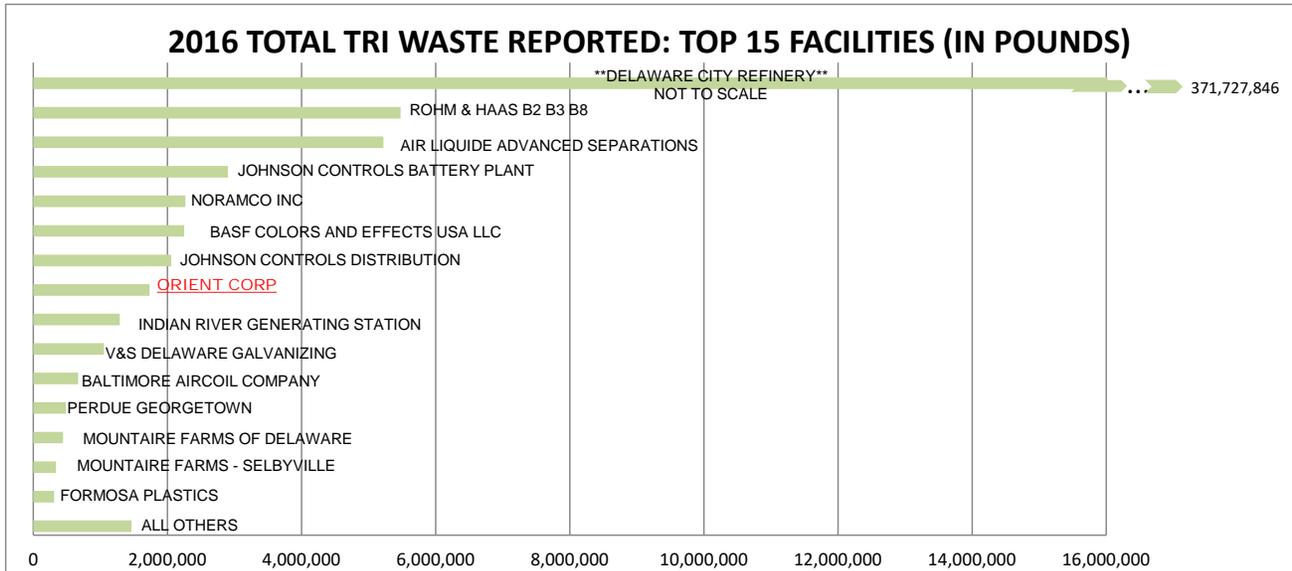
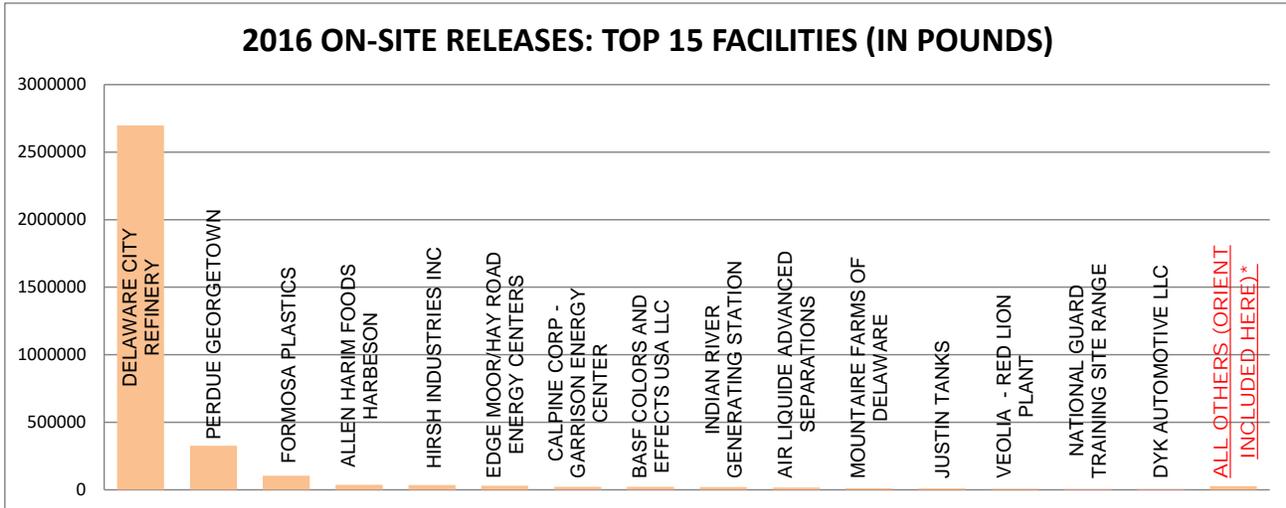




TRI FACILITY PROFILES

ORIENT, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES



NOTABLE 2016 NATIONAL RANKINGS:

Orient ranks 1st in the nation for on-site recycling of aniline (out of 47 facilities).



TRI FACILITY PROFILES

OWEN STEEL COMPANY

LOCATION/CONTACT:

Address: 813 South Market Street
Wilmington, DE 19801

Phone: (803)-251-7565

Contact: David Zalesne



FACILITY OVERVIEW:

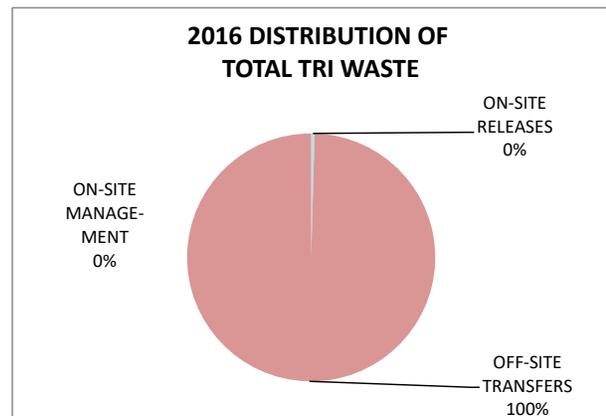
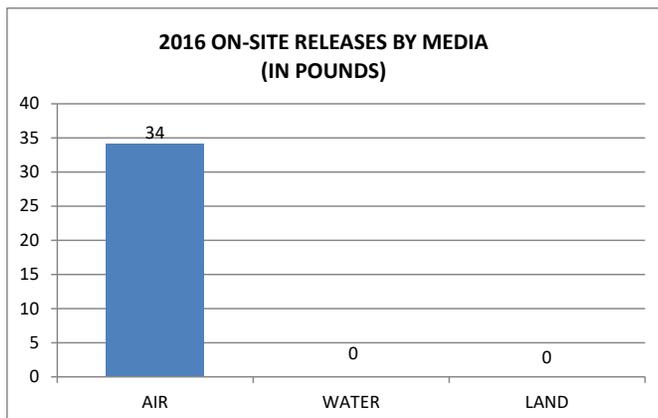
Owen Steel Company reported under the North American Industrial Classification System (NAICS) as 332312, which covers fabricated structural metal manufacturing.

Owen Steel Company, located in Wilmington, reported to TRI for the first time in 2015. The facility reported on three chemicals in 2016, lead compounds, manganese compounds, and nickel compounds. Off-site transfers for recycling accounted for 99% of the facility's total reportable waste, with on-site releases to air making up less than 1%.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD COMPOUNDS	0	0	0	0	200	0	YES	YES
MANGANESE COMPOUNDS	33	0	0	33	2,300	0	NO	NO
NICKEL COMPOUNDS	1	0	0	1	5,100	0	NO	YES
TOTAL	34	0	0	34	7,600	0		

GRAPHICAL INFORMATION:



TRI FACILITY PROFILES



OWEN STEEL COMPANY, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

The Owen Steel Company ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

PERDUE BRIDGEVILLE

LOCATION/CONTACT:

Address: 16447 Adams Road
Bridgeville, DE 19933

Phone: (410)-341-2755

Contact: Andrea Staub



FACILITY OVERVIEW:

Perdue Farms is a producer of poultry products. The Bridgeville facility is a feed mill that produces poultry feed.

Perdue Bridgeville has reported since 1995. The facility reported on three chemicals in 2016, all on short Form A. Form A reports do not include waste management activities. The chemicals reported are metal compounds that are used in poultry feed as nutritional ingredients. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER COMPOUNDS*	0	0	0	0	0	0	NO	NO
MANGANESE COMPOUNDS*	0	0	0	0	0	0	NO	NO
ZINC COMPOUNDS*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILES

PERDUE GEORGETOWN

LOCATION/CONTACT:

Address: 20621 Savannah Road
Georgetown, DE 19947

Phone: (410)-341-2755

Contact: Andrea Staub



FACILITY OVERVIEW:

Perdue Farms is a producer of poultry products. The Georgetown facility processes chickens for sale to the retail market.

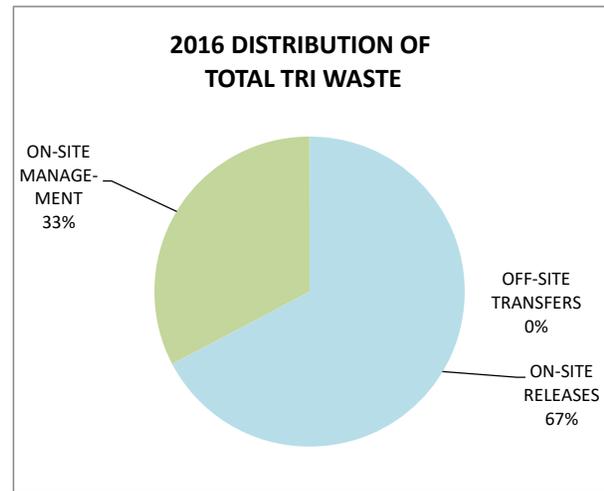
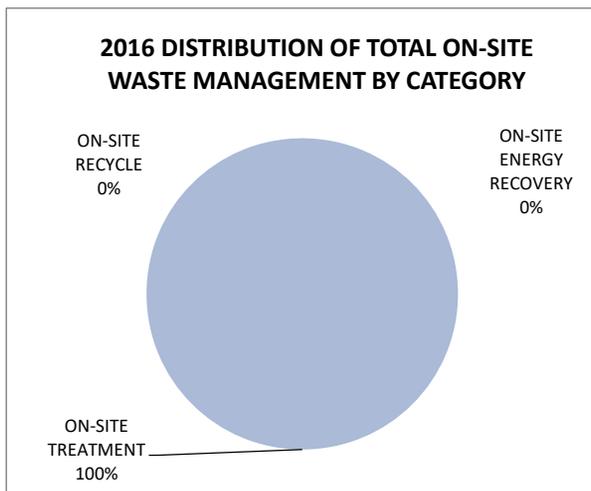
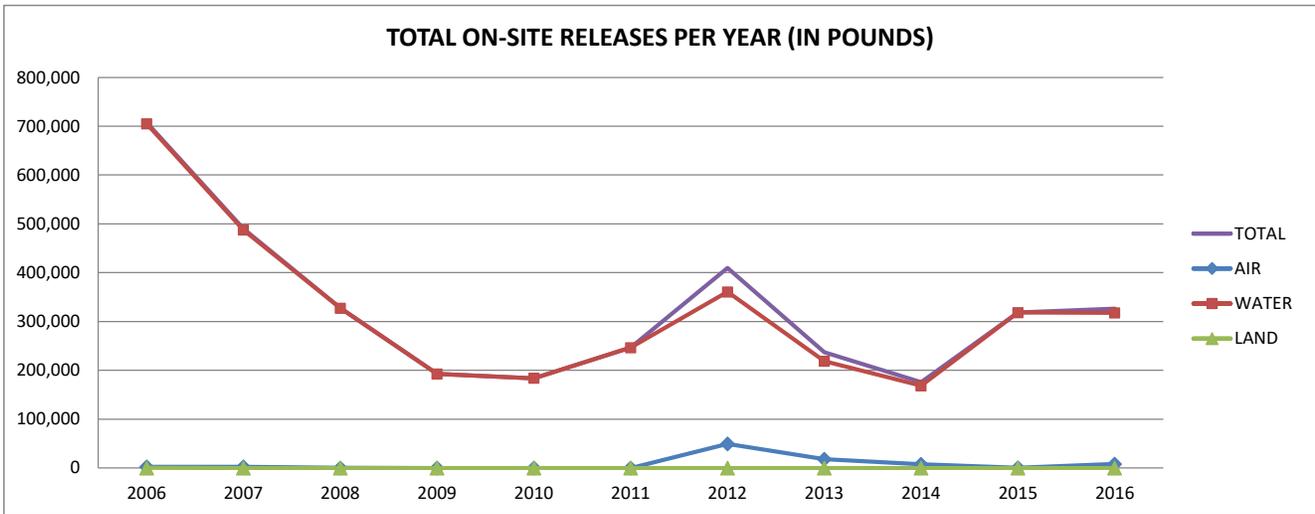
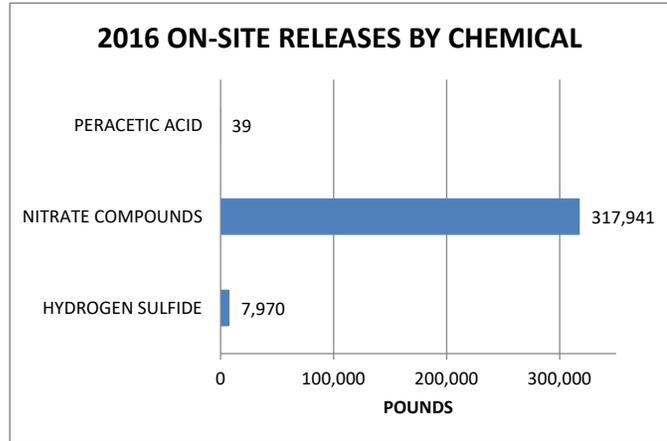
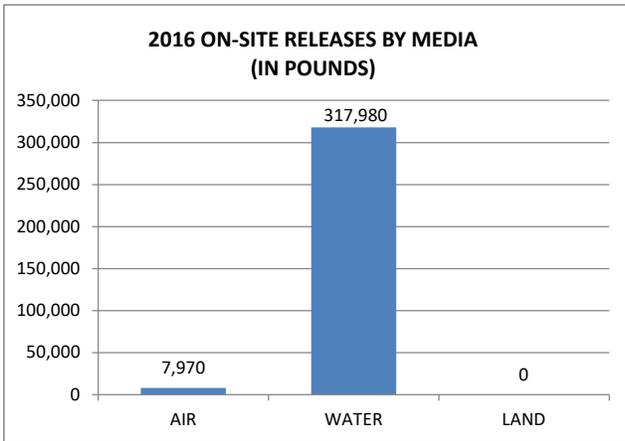
Perdue Georgetown reported on three TRI chemicals for 2016: nitrate compounds, hydrogen sulfide, and peracetic acid. Perdue’s wastewater treatment plant digests production wastewater from the poultry processing plant and converts some of this waste into nitrate compounds, which are discharged into a local stream. Hydrogen sulfide is a byproduct from anaerobic treatment of the organic wastes in the wastewater and is released to air. Peracetic acid is found in a FDA-approved antimicrobial food treatment for pathogen reduction in poultry processing. The product s used in chilling and carcass washing equipment in the plant.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
HYDROGEN SULFIDE	7,970	0	0	7,970	0	79,635	NO	NO
NITRATE COMPOUNDS	0	317,941	0	317,941	87	0	NO	NO
PERACETIC ACID	0	39	0	39	0	78,872	NO	NO
TOTAL	7,970	317,980	0	325,950	87	158,507		

PERDUE GEORGETOWN, CONT.

GRAPHICAL INFORMATION:

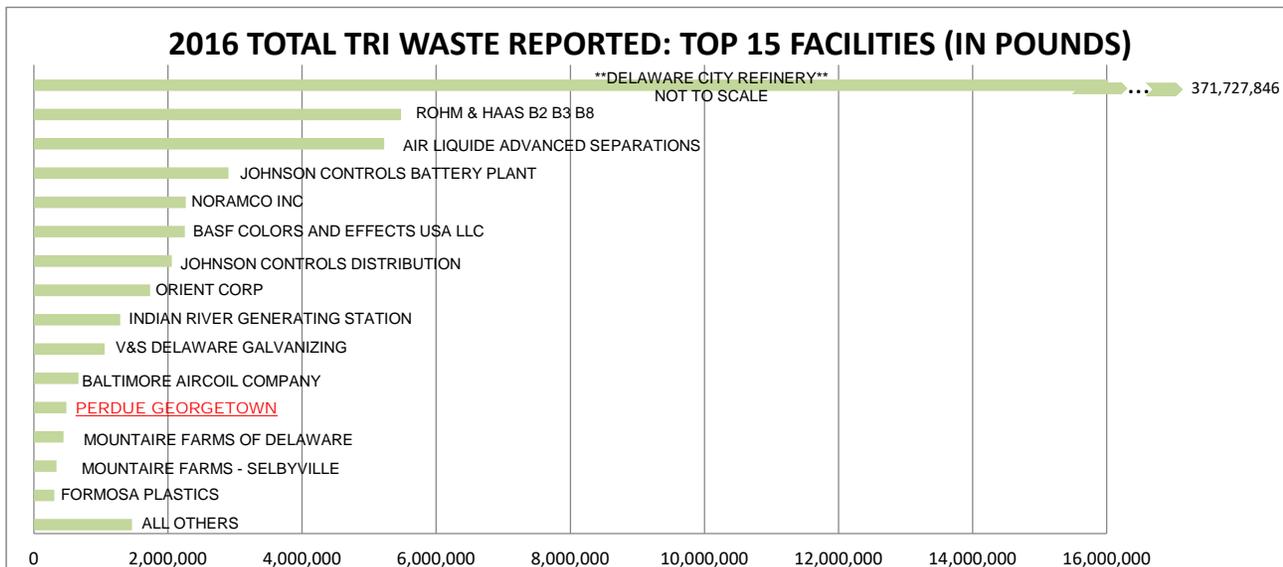
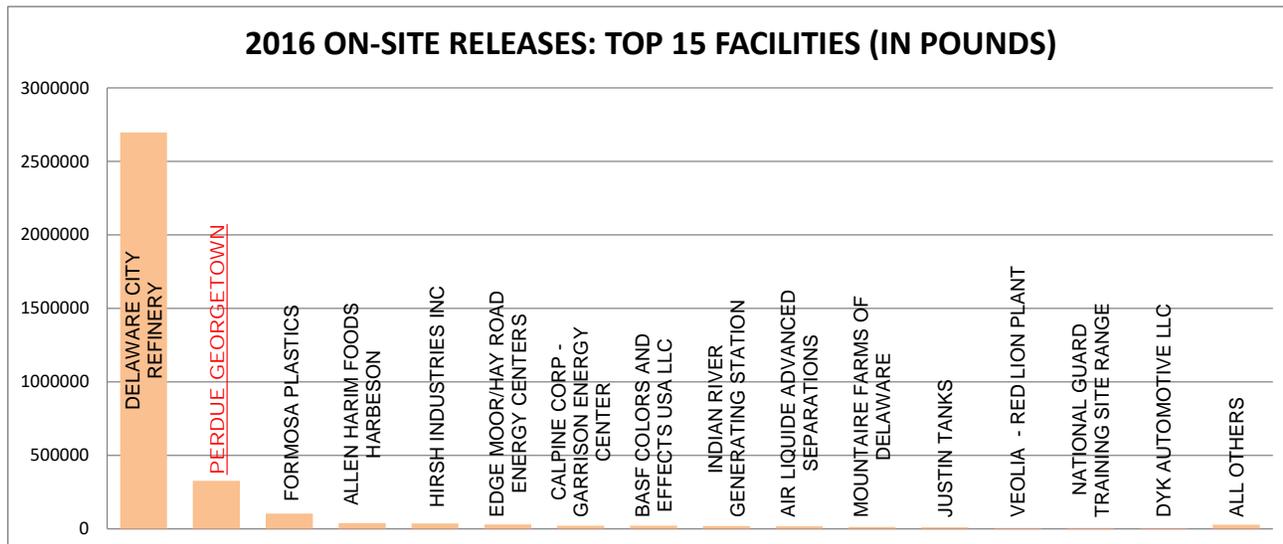




TRI FACILITY PROFILES

PERDUE GEORGETOWN, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Perdue Georgetown ranks 54th in on-site release of nitrate compounds by food/beverage facilities (NAICS 311) (out of 554 facilities).

Perdue Georgetown ranks 27th in the on-site treatment of hydrogen sulfide by food/beverage facilities (NAICS 311) (out of 82 facilities).

PERDUE MILFORD

LOCATION/CONTACT:

Address: 255 N. Rehoboth Blvd.
Milford, DE 19963

Phone: (410)-341-2755

Contact: Andrea Staub



FACILITY OVERVIEW:

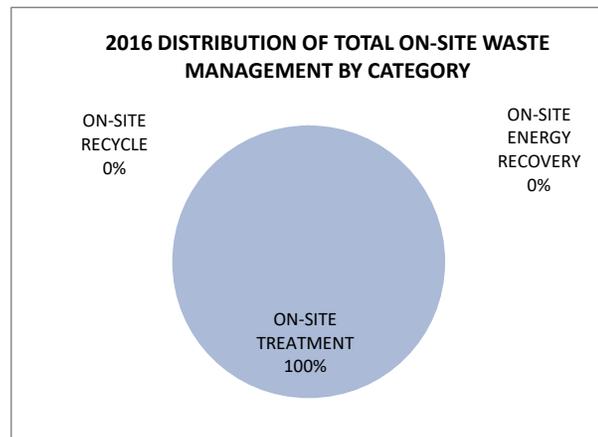
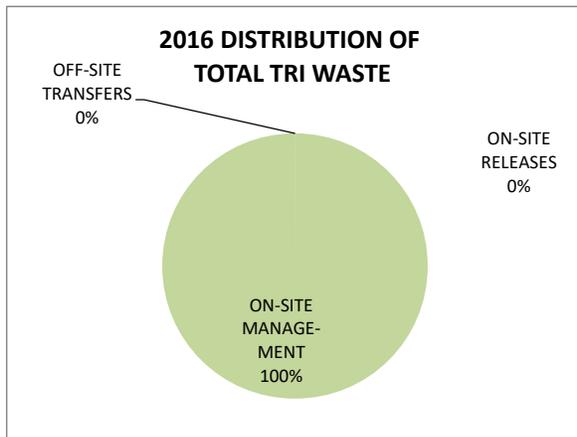
Perdue Farms is a producer of poultry products. The Milford facility processes chickens for sale to the retail market, and is an organic certified plant.

Perdue Milford has reported since 1991, previously as Conagra Broiler. From 1999 through 2006, the facility was below the reporting threshold, and no TRI reports were filed. For 2016, the facility reported on one chemical, peracetic acid, which is completely managed on-site. Peracetic acid is found in a FDA-approved antimicrobial food treatment for pathogen reduction in poultry processing. The product is used in chilling and carcass washing equipment in the plant. According to the manufacturer, the product is environmentally responsible as it is compatible with water treatment systems, and rapidly breaks down after use.

2016 TRI DATA (REPORTED IN POUNDS):

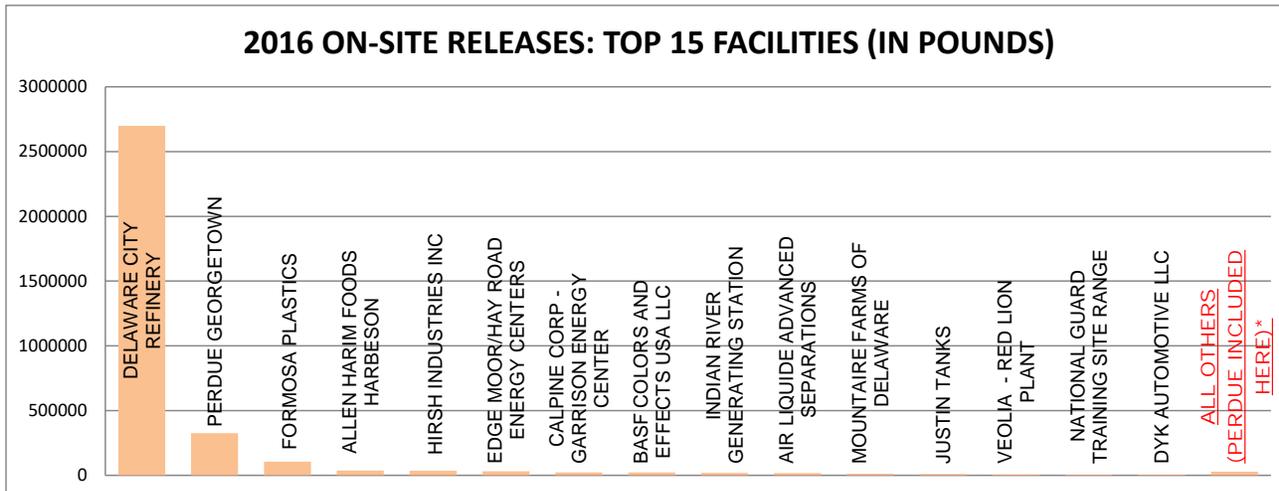
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
PERACETIC ACID	0	0	0	0	52	104,770	NO	NO
TOTAL	0	0	0	0	52	104,770		

GRAPHICAL INFORMATION:

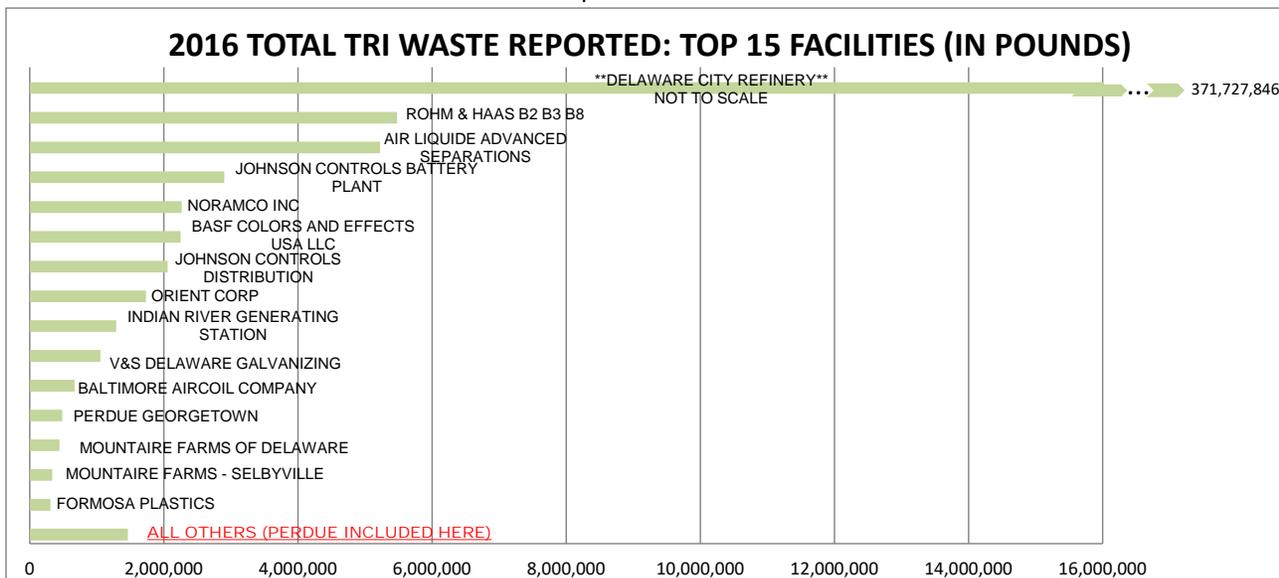


PERDUE MILFORD, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



* Perdue Milford ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.



NOTABLE 2016 NATIONAL RANKINGS:

Perdue Milford ranks 59th for on-site treatment of peracetic acid (out of 212 facilities).

PICTSWEET

LOCATION/CONTACT:

Address: 18215 Wesley Church Road
Bridgeville, DE 19933

Phone: (731)-663-7600

Contact: Allen Watts



FACILITY OVERVIEW:

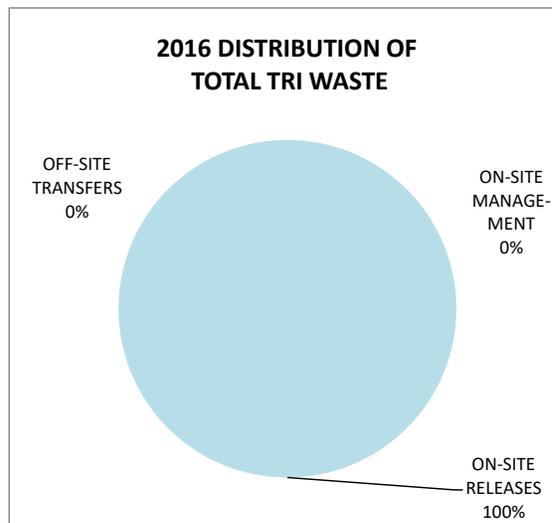
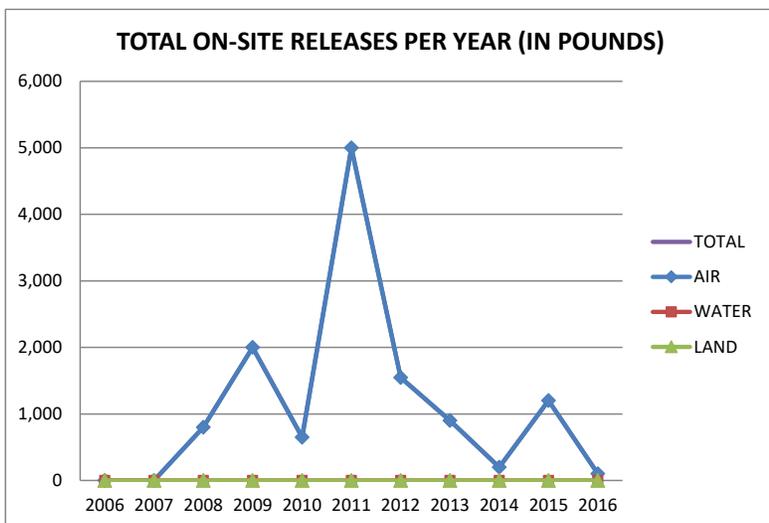
Pictsweet reports under the North American Industrial Classification System (NAICS) as 311411, which covers the manufacturing of frozen fruit, juice and vegetables.

The facility has reported since 1989, previously as Birds Eye Foods and Agrilink Foods. Pictsweet reported one TRI chemical in 2016, ammonia. Ammonia is used in refrigeration equipment, and releases are typical through normal service maintenance, leaks, and other losses that occur in the system. On-site release amounts of ammonia have varied year to year (see *Total On-site Releases Per Year Graph*).

2016 TRI DATA (REPORTED IN POUNDS):

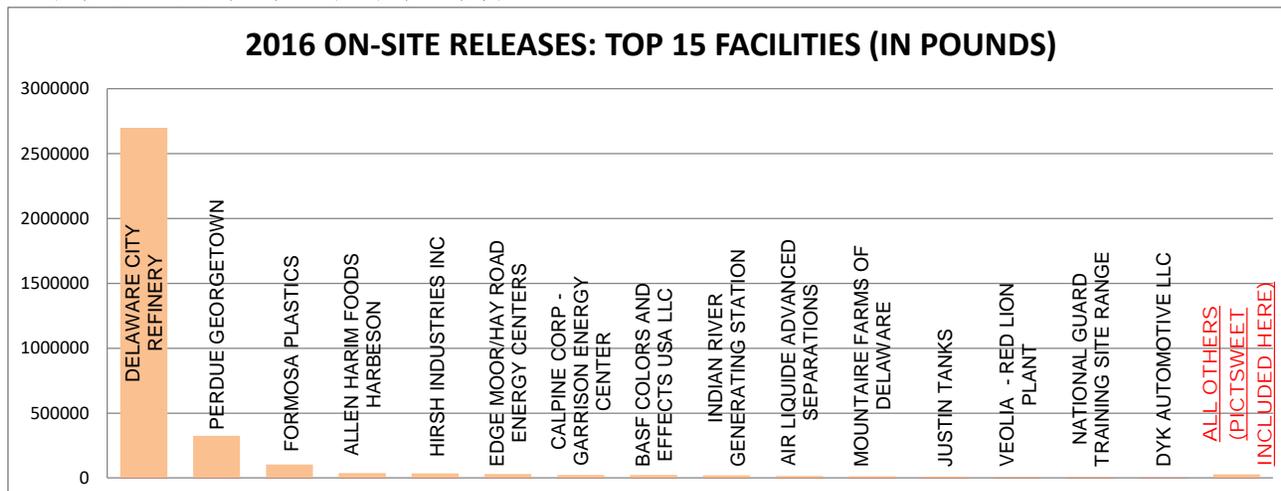
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
AMMONIA	100	0	0	100	0	0	NO	NO
TOTAL	100	0	0	100	0	0		

GRAPHICAL INFORMATION:



PICTSWEET, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



Pictsweet ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

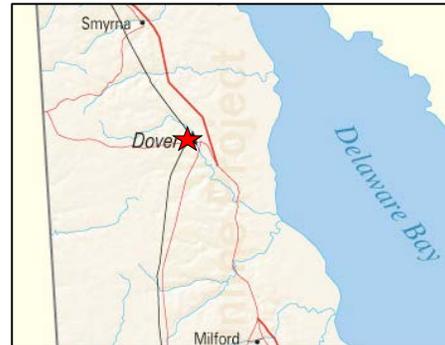
PPG INDUSTRIES

LOCATION/CONTACT:

Address: 1886 Lynnbury Woods Road
Dover, DE 19904

Phone: (302)-672-2161

Contact: Neal Nicastro



FACILITY OVERVIEW:

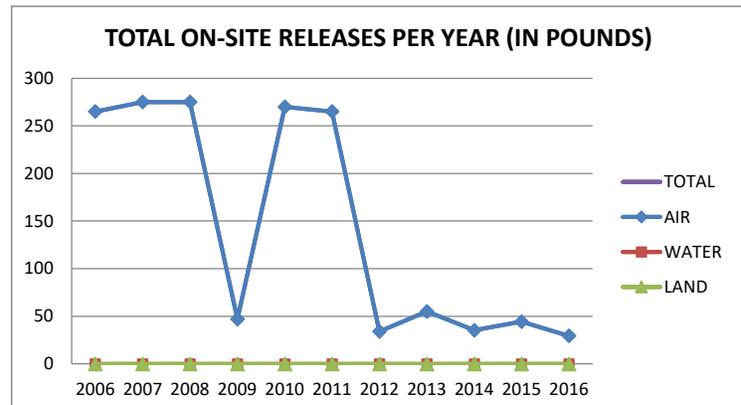
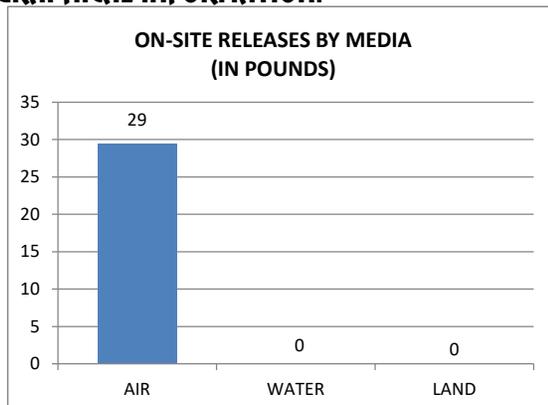
PPG Industries reported under the North American Industrial Classification System (NAICS) as 325510, which covers paint and coating manufacturing.

PPG Industries has reported since 1987. The facility reported on three chemicals in 2016, with on-site releases only to air. The chemicals reported are utilized as raw materials in the paint making process. The raw materials are mixed together to make architectural paint. On-site releases accounted for less than 1% of all waste activities in 2016. Releases for 2006 through 2008 and from 2010 and 2011 were higher than other years, with increased releases of zinc compounds on-site (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

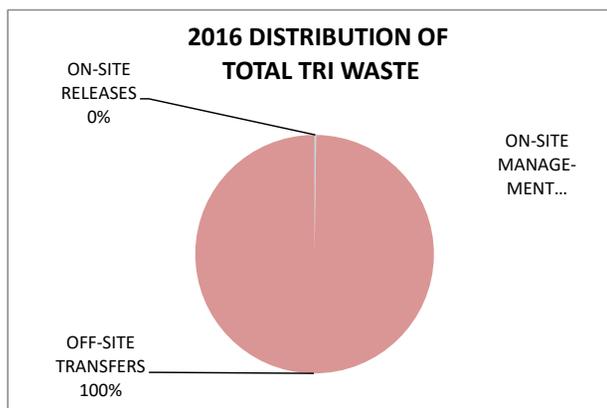
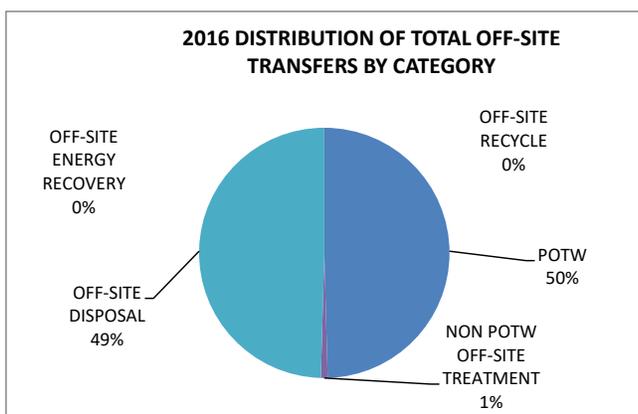
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CERTAIN GLYCOL ETHERS	0	0	0	0	7,203	0	NO	NO
ETHYLENE GLYCOL	0	0	0	0	4,865	0	NO	NO
ZINC COMPOUNDS	29	0	0	29	1,933	0	NO	NO
TOTAL	29	0	0	29	14,001	0		

GRAPHICAL INFORMATION:

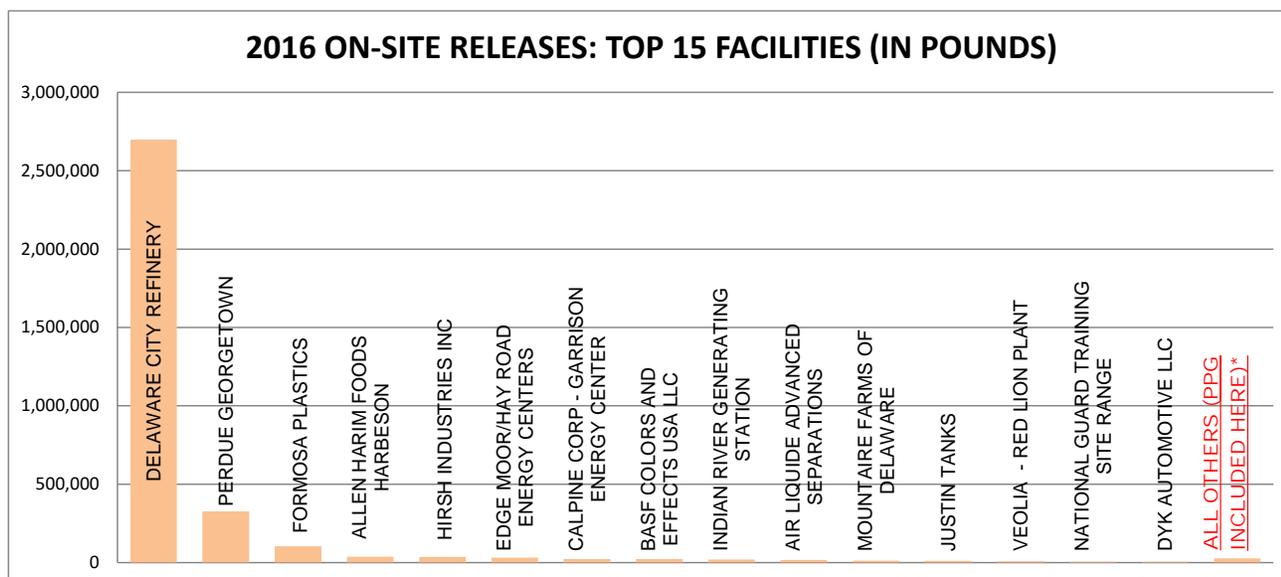


PPG INDUSTRIES, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:



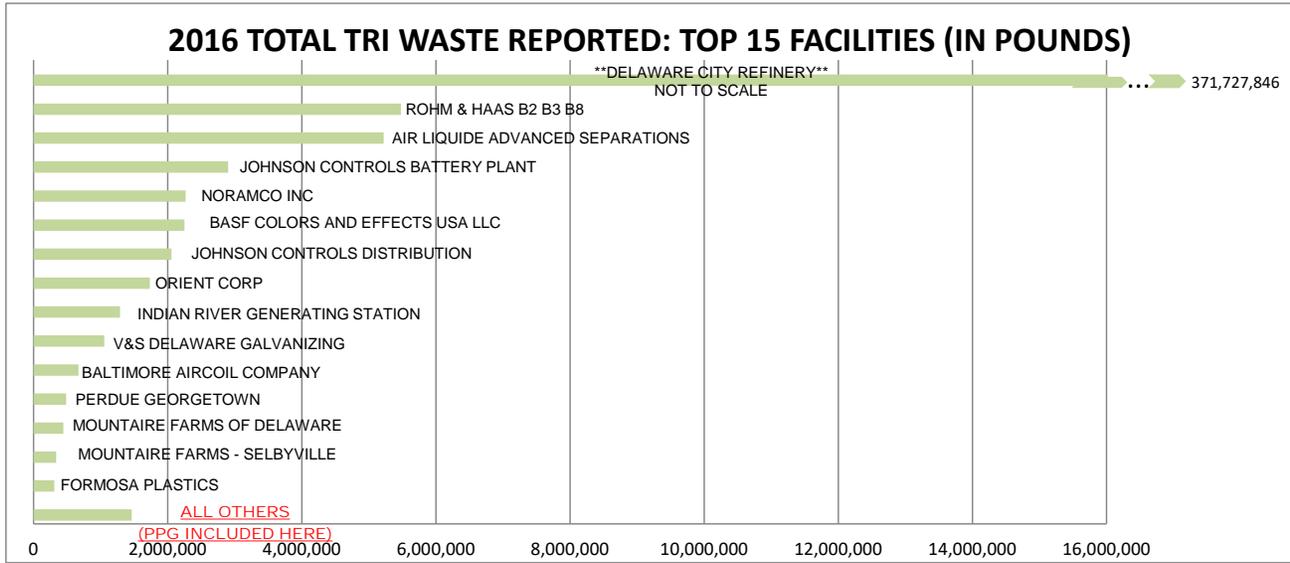
*PPG Industries ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site. Comparisons only include facilities reporting on Form R.



TRI FACILITY PROFILES

PPG INDUSTRIES, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:



NOTABLE 2016 NATIONAL RANKINGS:

PPG Industries ranks 23rd in the off-site transfer of certain glycol ethers to publicly owned treatment works (POTW) for chemical facilities (NAICS 325) (out of 656 facilities).



TRI FACILITY PROFILES

PRINCE MINERALS LLC

LOCATION/CONTACT:

Address: 301 Pigeon Point Road
New Castle, DE 19720

Phone: (646)-747-4176

Contact: Mary Simpler



FACILITY OVERVIEW:

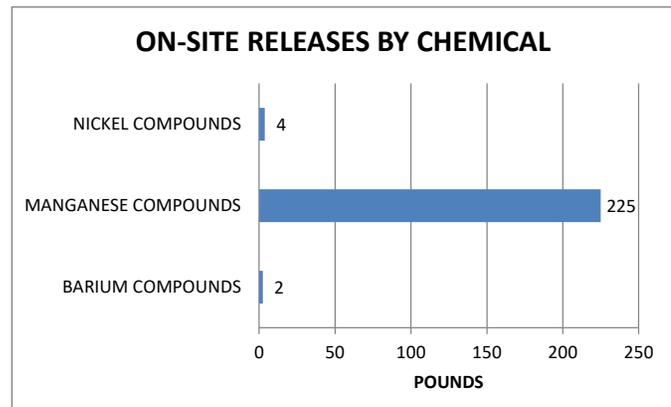
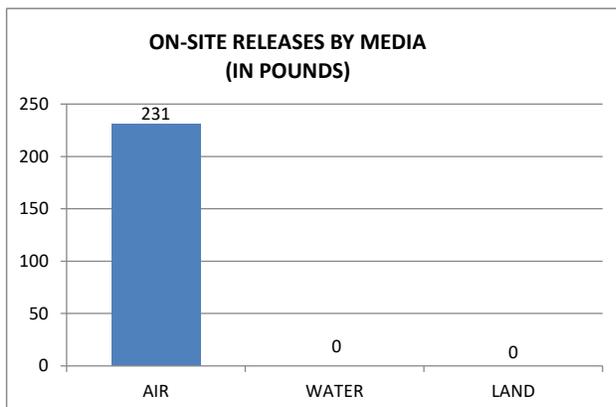
Prince Minerals LLC is a supplier of colorants and additives to the North American brick industry as well as complementary products to serve the foundry, glass, and refractory markets.

Prince Minerals LLC has reported since 1998, previously as American Minerals. The facility reported on 3 chemicals in 2016, all metal compounds, with on-site releases only to air. Virtually all of the waste is shipped off site, with less than 0.2% being released on-site.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
BARIUM COMPOUNDS	2	0	0	2	530	0	NO	NO
MANGANESE COMPOUNDS	225	0	0	225	122,750	0	NO	NO
NICKEL COMPOUNDS	4	0	0	4	495	0	NO	YES
TOTAL	231	0	0	231	123,775	0		

GRAPHICAL INFORMATION:

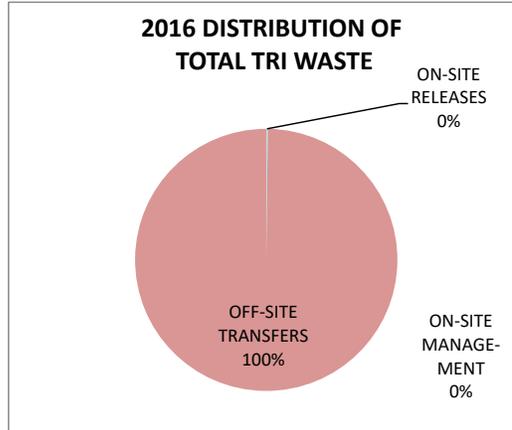
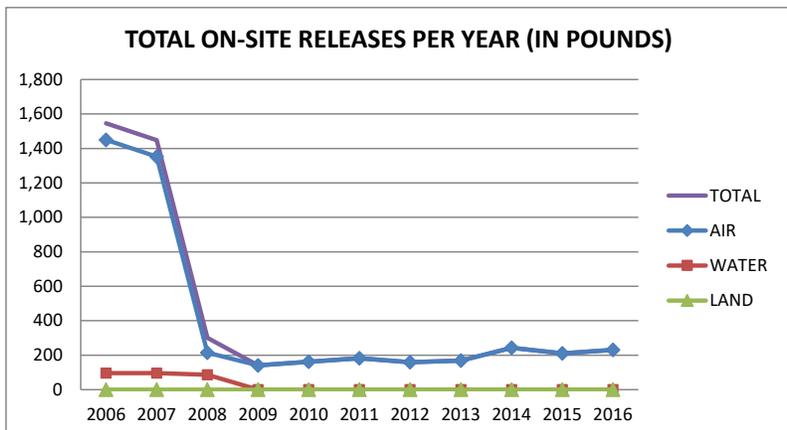


TRI FACILITY PROFILES

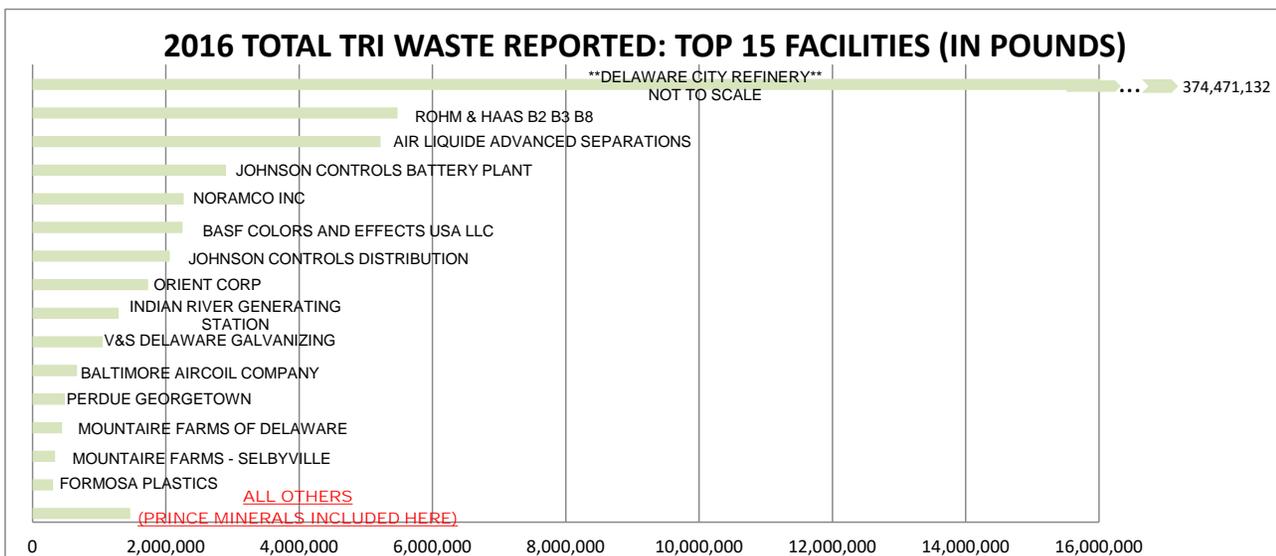
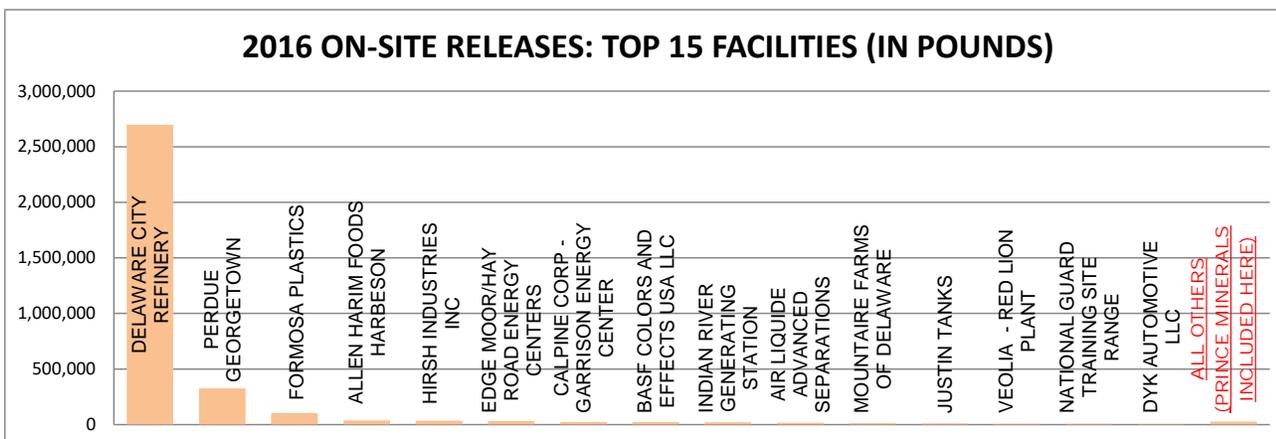


PRINCE MINERALS LLC, CONT.

GRAPHICAL INFORMATION CONT.:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:





TRI FACILITY PROFILES

ROGERS CORP

LOCATION/CONTACT:

Address: 1100 Governor Lea Road
Bear, DE 19701

Phone: (860) 779-5598

Contact: Timothy Gauthier



FACILITY OVERVIEW:

Rogers Corp. specializes in the manufacturing of fluoropolymer (PTFE) laminates and ceramic-filled fluoropolymer laminates that are used in frequency-dependent circuit applications such as aircraft radar systems, base station amplifiers and cell tower antennas for wireless telecommunications. Rogers also produces precision calendared silicone rubber coated fabric and specialty extruded self-fusing silicone rubber tapes. These silicone rubber products are used in aerospace, transportation, general industrial, and semiconductor markets more often than not for electrical insulation.

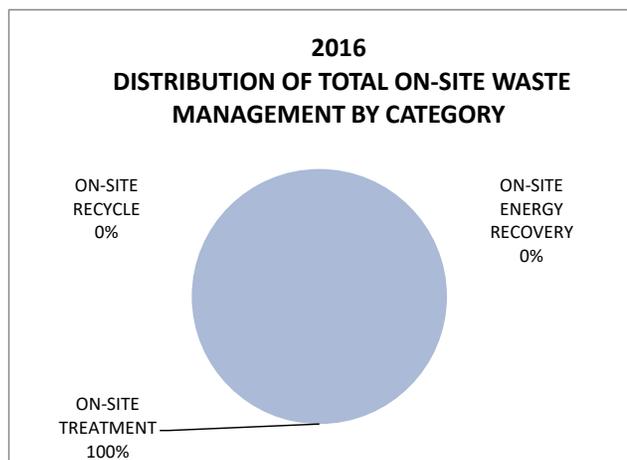
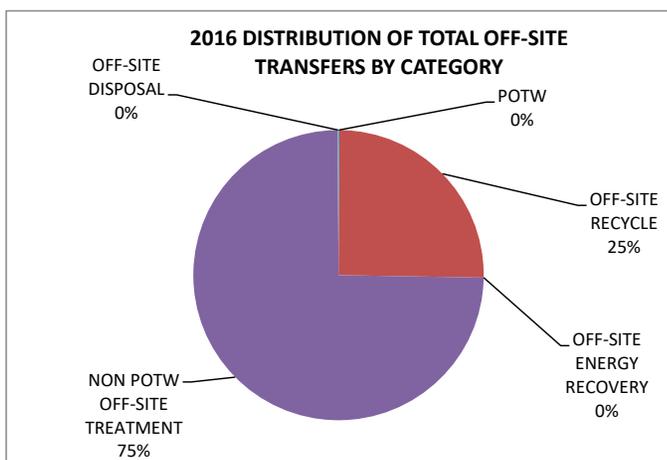
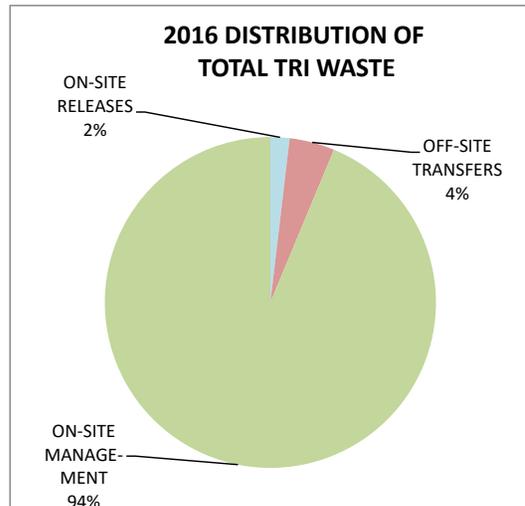
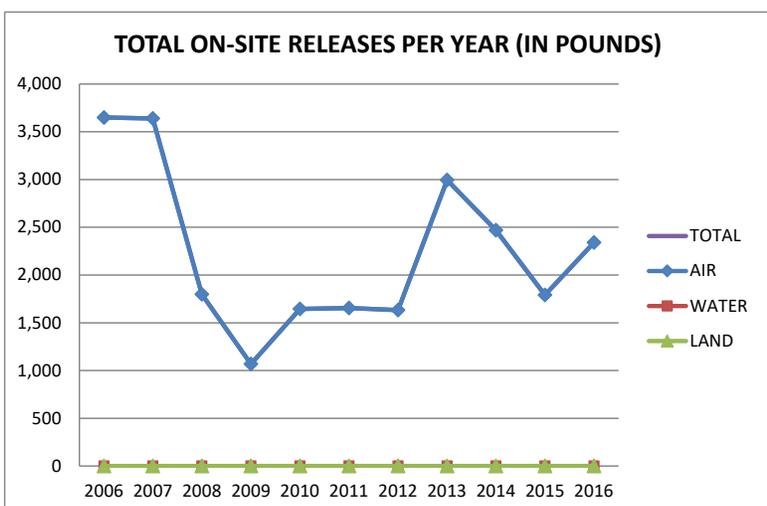
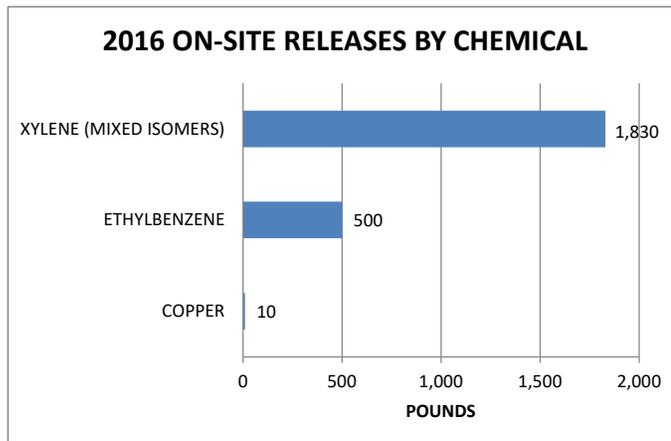
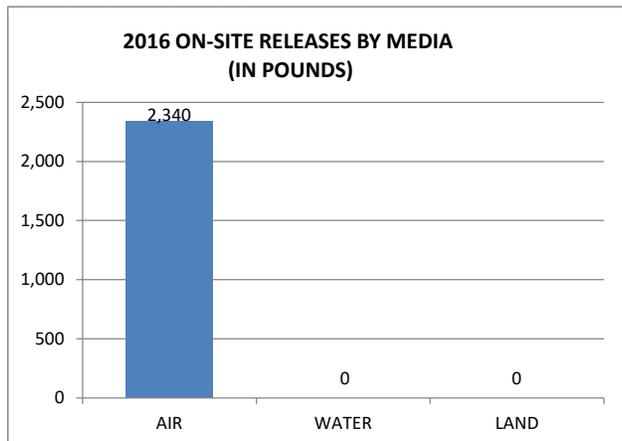
Rogers has reported since 1987, previously as Arlon and Keene. Rogers reported three TRI chemicals, ethylbenzene, xylene and copper, in 2016. Rogers uses xylene as a chemical processing aid in the coating of fiberglass with the silicone rubber dispersion. Ethylbenzene is a component found in many commercial grades of xylene. A vast majority of the solvents used in the coating process is destroyed in the on-site thermal oxidizer system. Copper is used in the antenna assemblies.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
COPPER	10	0	0	10	1,410	0	NO	NO
ETHYLBENZENE	500	0	0	500	650	19,000	NO	YES
XYLENE (MIXED ISOMERS)	1,830	0	0	1,830	3,500	99,000	NO	NO
TOTAL	2,340	0	0	2,340	5,560	118,000		

ROGERS CORP.

GRAPHICAL INFORMATION:

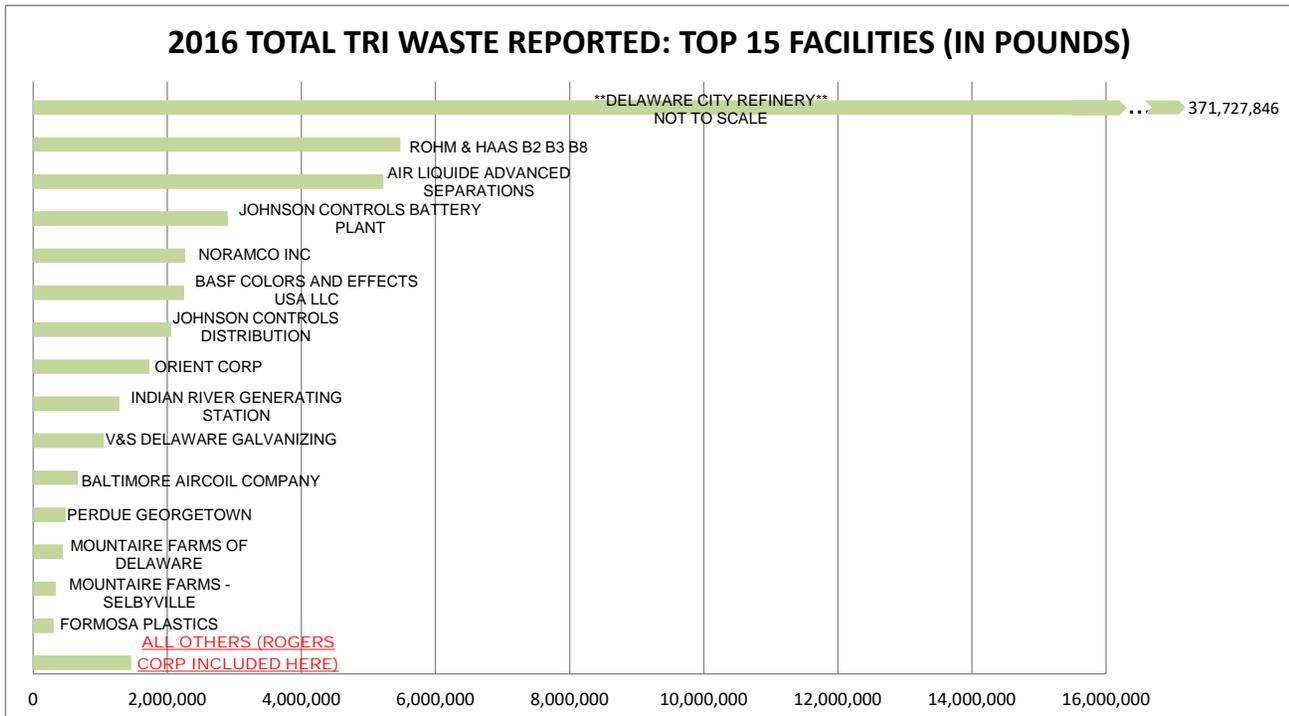
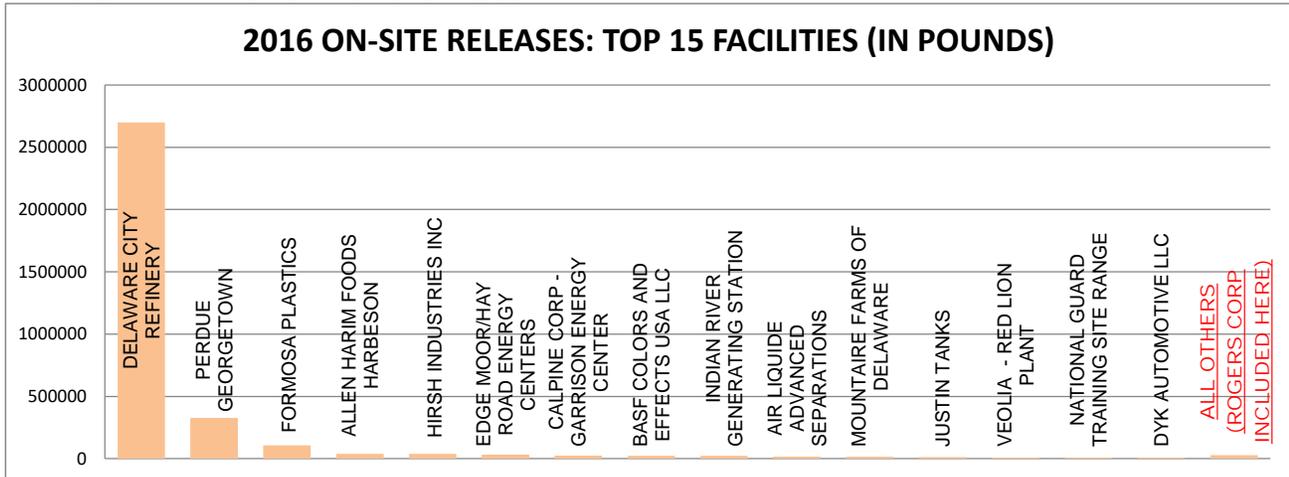




TRI FACILITY PROFILES

ROGERS CORP, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Rogers Corp. ranks 13th in the on-site treatment of xylene (mixed isomers) for plastic and rubber manufacturing facilities (NAICS 326) (out of 65 facilities).

Rogers Corp. ranks 37th in on-site releases of xylene (mixed isomers) for plastic and rubber manufacturing facilities (NAICS 326) (out of 65 facilities).



TRI FACILITY PROFILES

ROHM & HAAS B2, B3, B8

LOCATION/CONTACT:

Address: 451 Bellevue Road
Newark, DE 19713

Phone: (302)-366-0500

Contact: Christopher Glackin



FACILITY OVERVIEW:

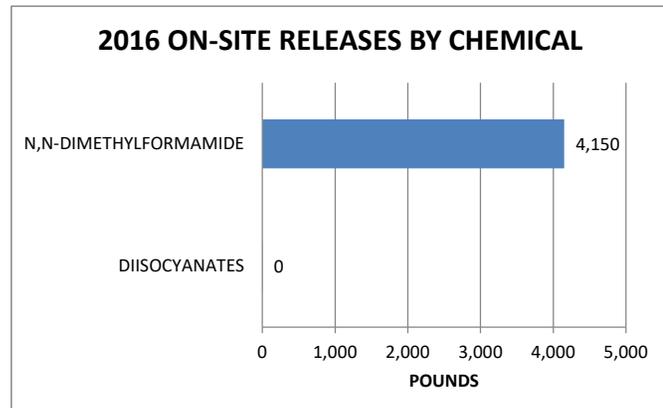
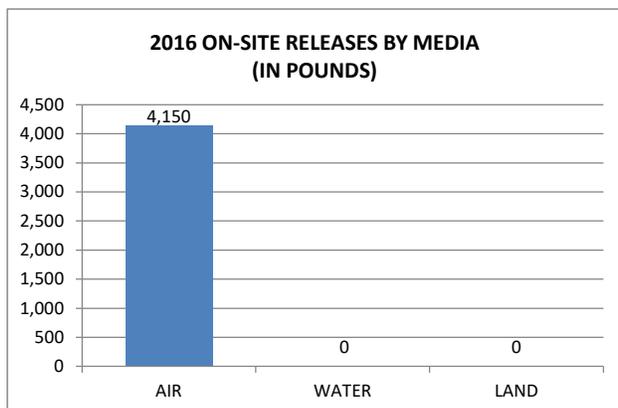
Rohm& Haas (Buildings 2, 3, and 8) manufactures polishing pads and slurries for the semiconductor, electronics, and glass industries.

The facility has reported since 1987, previously as Rodel. Rohm and Haas reported on two TRI chemicals for 2016. N,N-Dimethylformamide (DMF) is used as a solvent carrier in the polishing pad manufacturing process, and accounted for virtually all of their on-site releases. Releases of DMF mostly occur through evaporation from the poromerics coating and washing process. The majority of the DMF used is recycled in the distillation equipment for reuse in the process. All on-site releases of DMF were to air, and were primarily stack emissions from the scrubber and oxidizer used to control process emissions (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

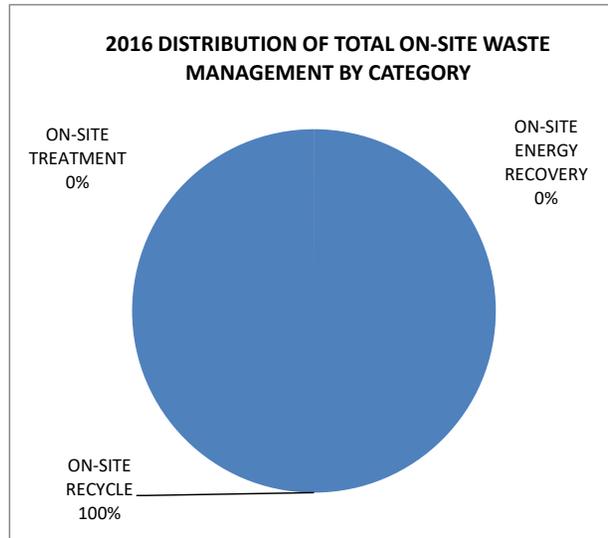
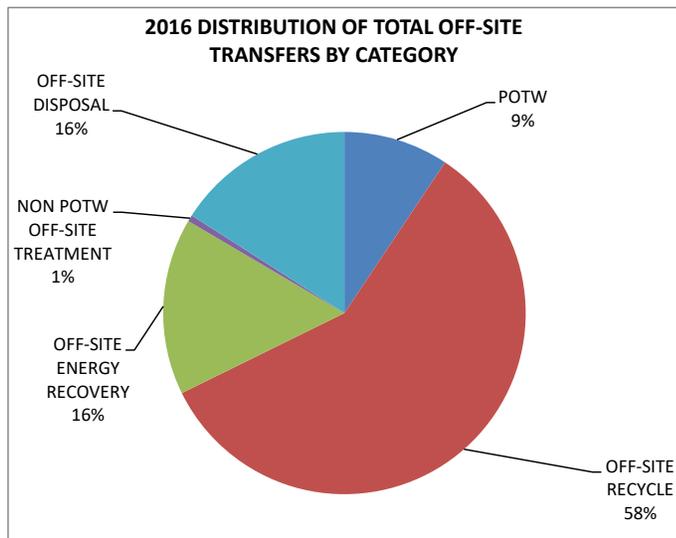
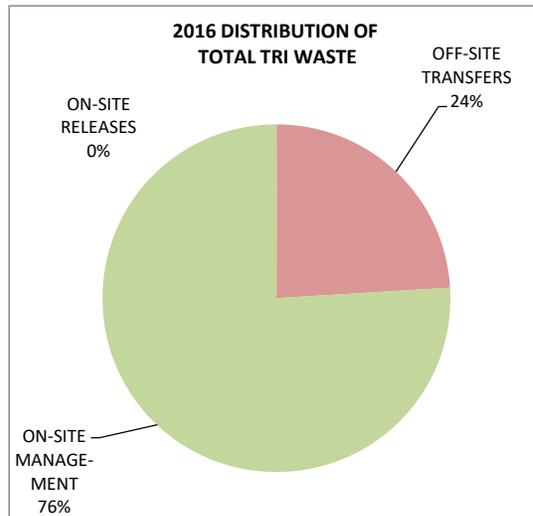
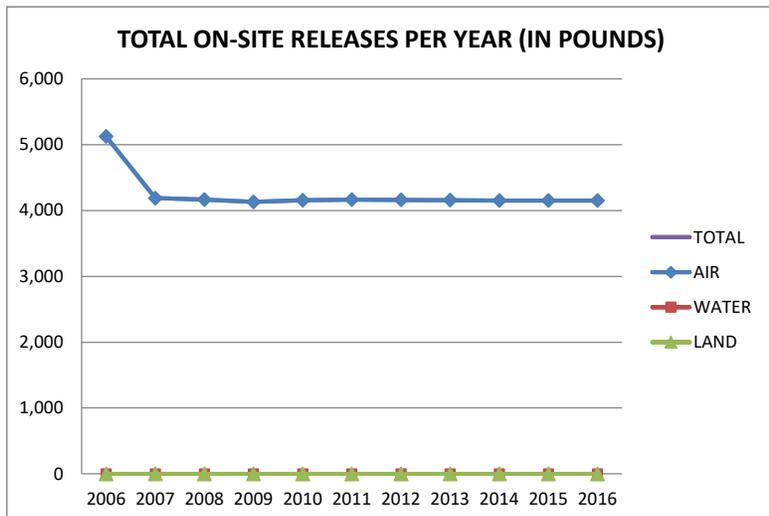
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
DIISOCYANATES	0	0	0	0	7,561	0	NO	NO
N,N-DIMETHYLFORMAMIDE	4,150	0	0	4,150	1,304,199	4,159,978	NO	NO
TOTAL	4,150	0	0	4,150	1,311,760	4,159,978		

GRAPHICAL INFORMATION:



ROHM & HAAS B2, B3, B8, CONT.

GRAPHICAL INFORMATION:

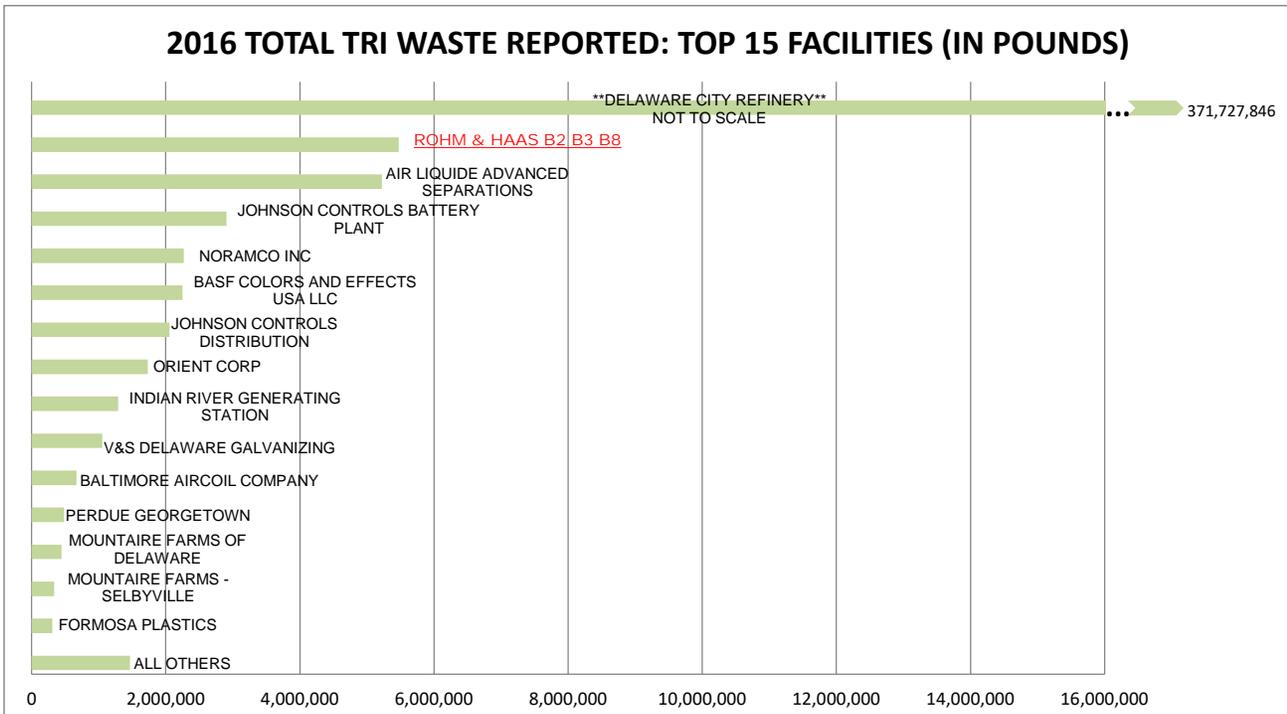
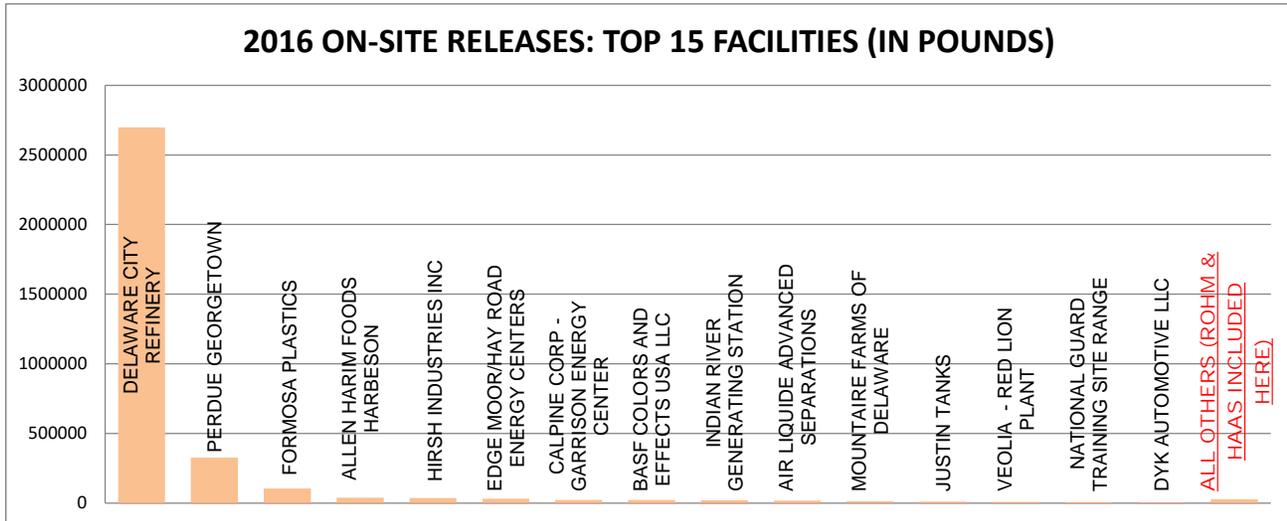




TRI FACILITY PROFILES

ROHM & HAAS B2, B3, B8, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

Rohm & Haas ranks 5th for off-site transfers of n,n-dimethylformamide (out of 156 facilities).

Rohm & Haas ranks 1st for on-site recycling of n,n-dimethylformamide (out of 156 facilities).



TRI FACILITY PROFILES

ROHM & HAAS B5, B6

LOCATION/CONTACT:

Address: 351 Bellevue Road
Newark, DE 19713

Phone: (302)-366-0500

Contact: Christopher Glackin



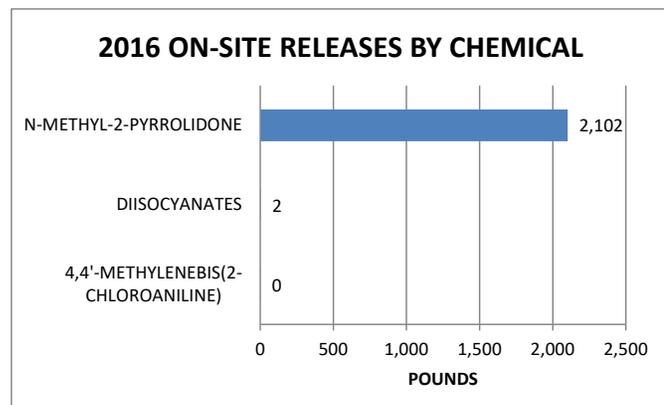
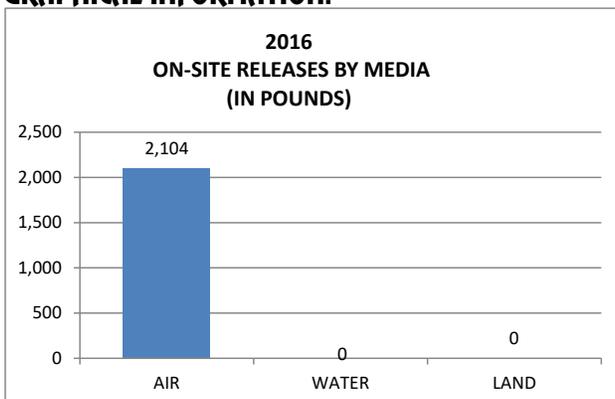
FACILITY OVERVIEW:

Rohm & Haas (Buildings 5 and 6) manufactures polishing pads for the semiconductor and electronics industries. Rohm & Haas (Buildings 5 and 6) has reported since 1995, formerly as the Rodel Technical Center. For 2016, the facility reported 3 chemicals, with n-methyl-2-pyrrolidone (NMP) accounting for 99.9% of all on-site releases. NMP is utilized in cleaning equipment used in manufacturing. The majority of NMP is managed off-site with only about 3% being released on-site to air.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
4,4'-METHYLENEBIS(2-CHLOROANILINE)	0	0	0	0	1,870	0	NO	YES
DIISOCYANATES	2	0	0	2	3,235	0	NO	NO
N-METHYL-2-PYRROLIDONE	2,102	0	0	2,102	62,068	0	NO	NO
TOTAL	2,104	0	0	2,104	67,173	0		

GRAPHICAL INFORMATION:

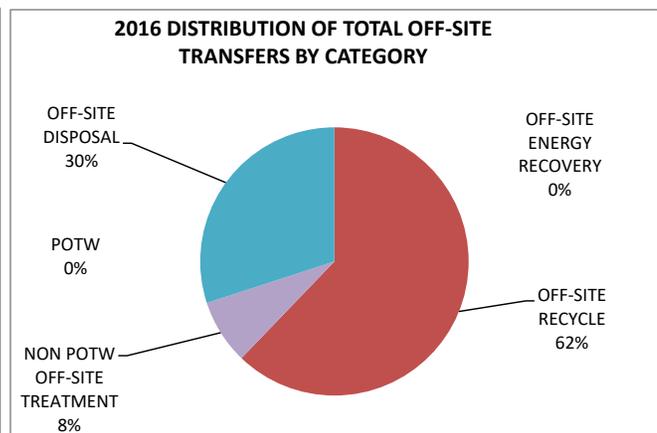
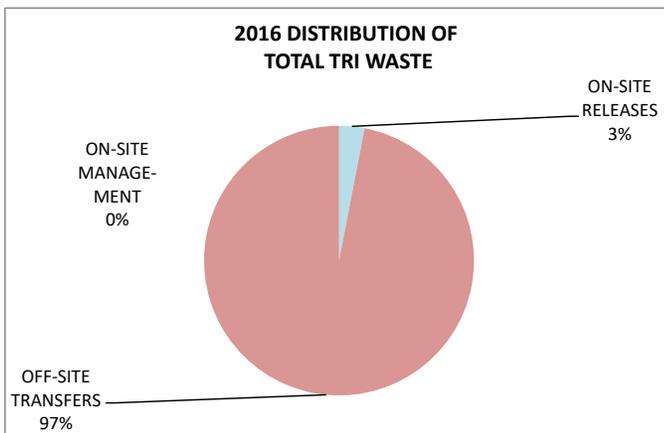
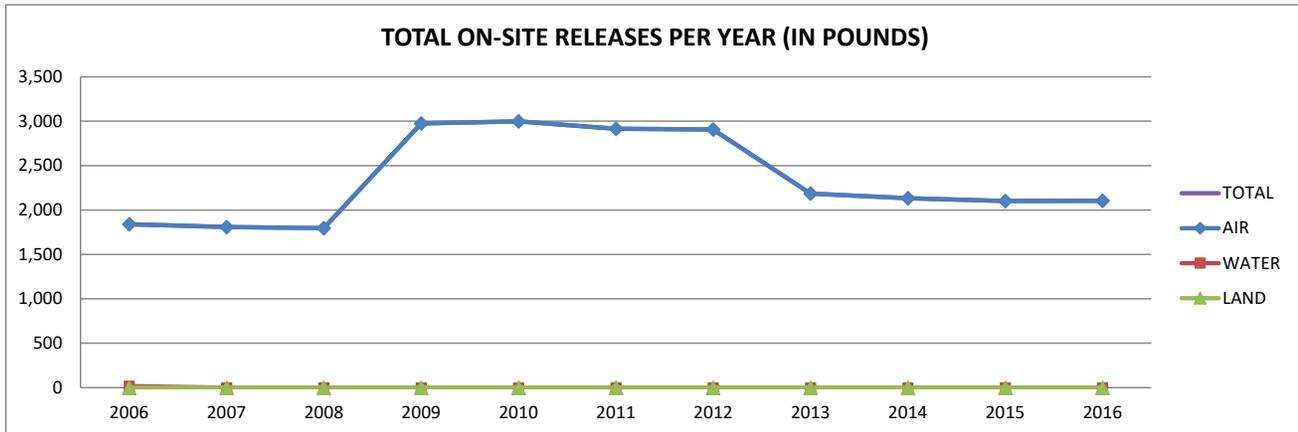


TRI FACILITY PROFILES

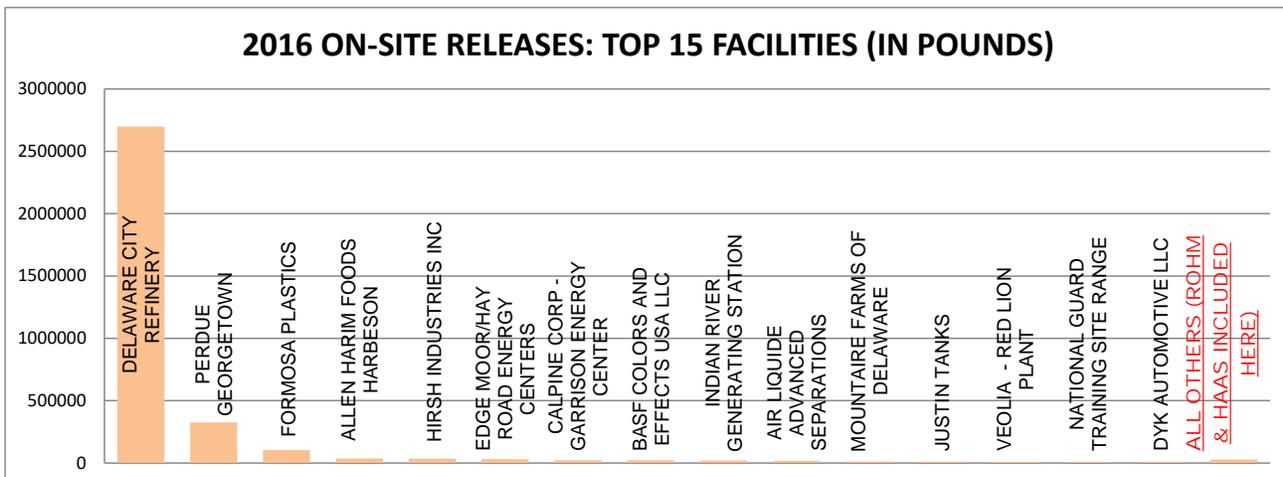


ROHM & HAAS B5, B6 CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

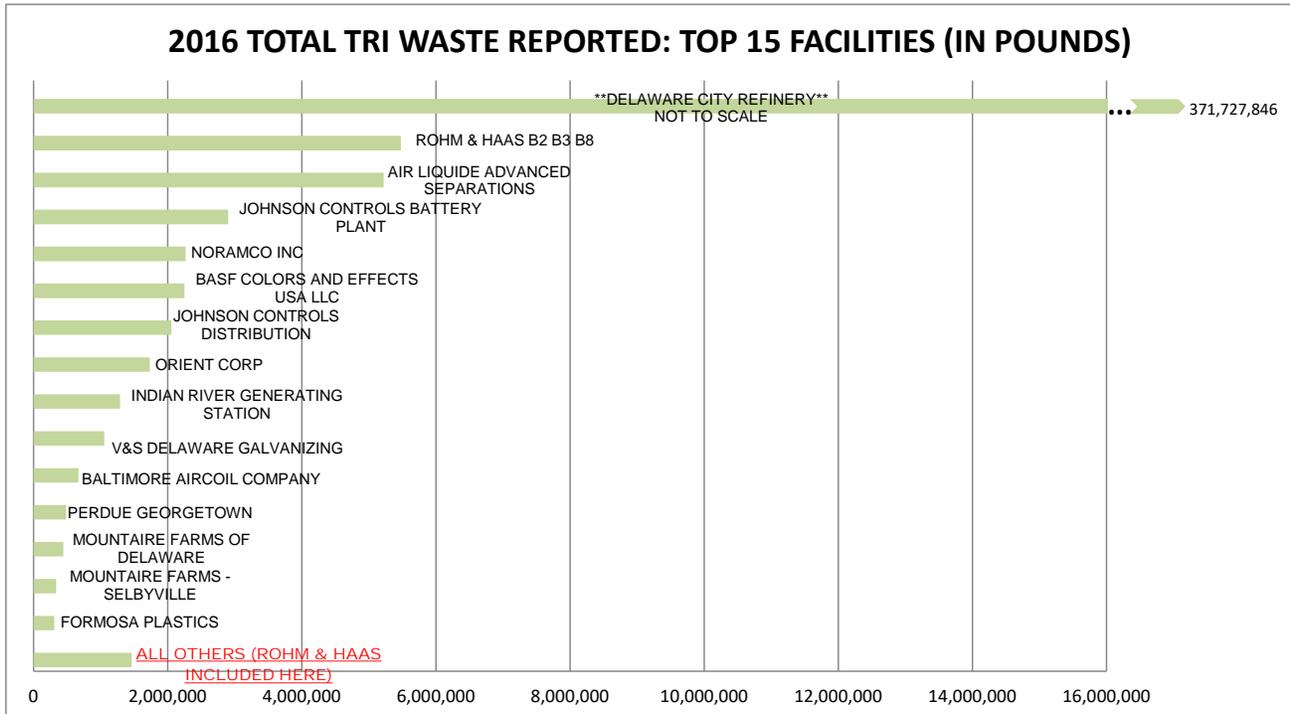




TRI FACILITY PROFILES

ROHM & HAAS B5, B6 CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES, CONT.:



NOTABLE 2016 NATIONAL RANKINGS:

Rohm & Haas B5, B6 ranks 87th for on-site releases of n-methyl-2-pyrrolidone (out of 394 facilities).

Rohm & Haas B5, B6 ranks 77th for off-site transfers of n-methyl-2-pyrrolidone (out of 394 facilities).



TRI FACILITY PROFILES

ROHM & HAAS B7, B15

LOCATION/CONTACT:

Address: 50 Bellevue Road
Newark, DE 19713

Phone: (302)-366-0500

Contact: Christopher Glackin



FACILITY OVERVIEW:

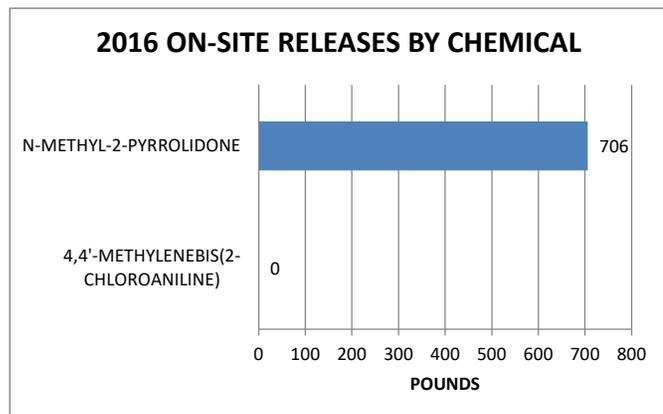
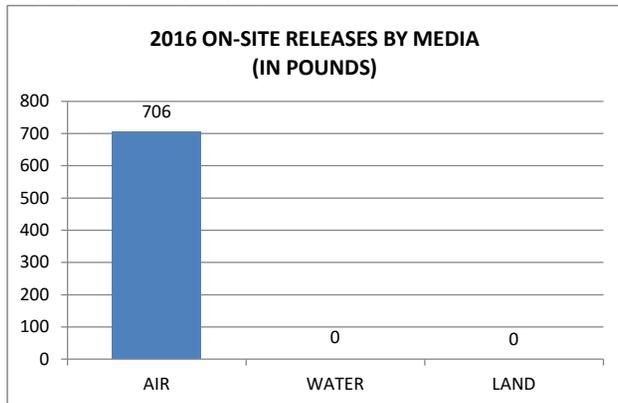
Rohm & Haas (Buildings 7 and 15) manufacture polishing pads for the semiconductor and electronics industries.

Rohm & Haas B7, B15 has reported since 2005, formerly as the Rodel Building 7. For 2016, the facility reported 2 chemicals, with n-methyl-2-pyrrolidone (NMP) accounting for >99.9% of all on-site releases. NMP is utilized in cleaning equipment used for manufacturing.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
4,4'-METHYLENEBIS(2-CHLOROANILINE)	0	0	0	0	714	0	NO	NO
N-METHYL-2-PYRROLIDONE	706	0	0	706	12,514	0	NO	NO
TOTAL	706	0	0	706	13,228	0		

GRAPHICAL INFORMATION:

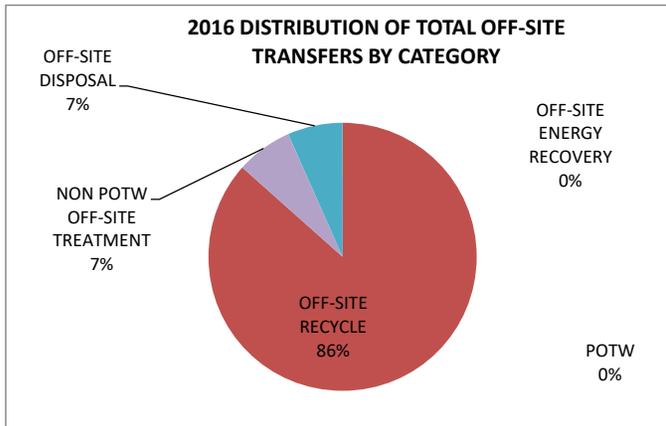
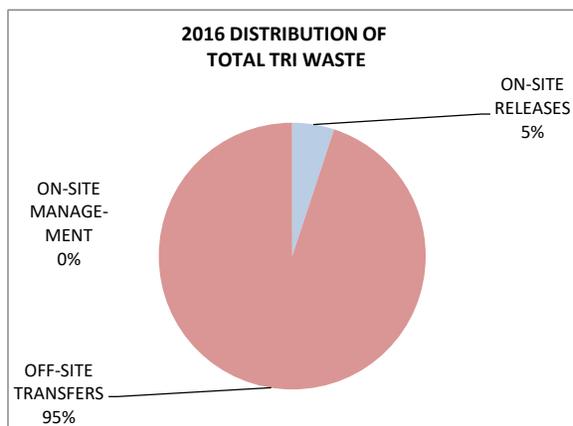
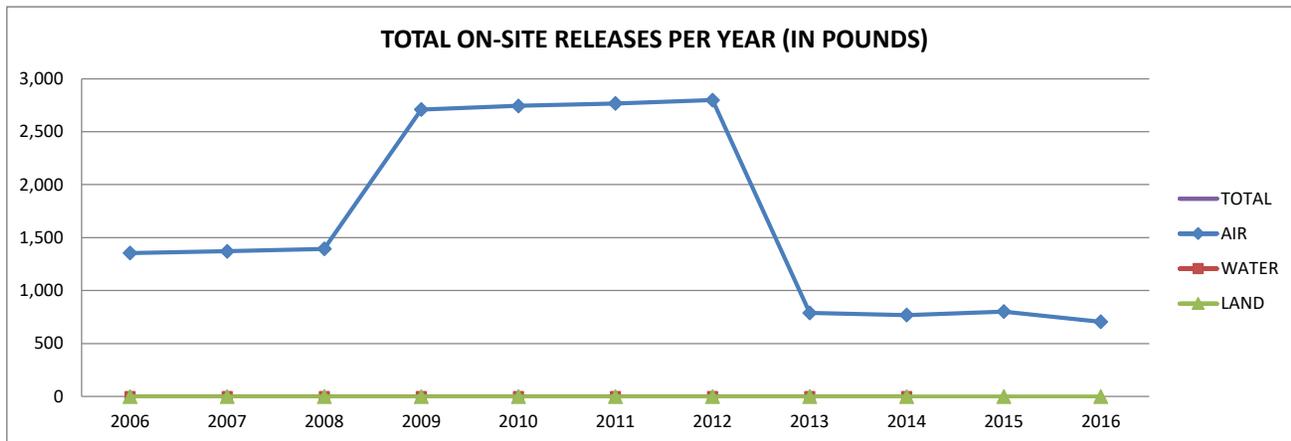


TRI FACILITY PROFILES

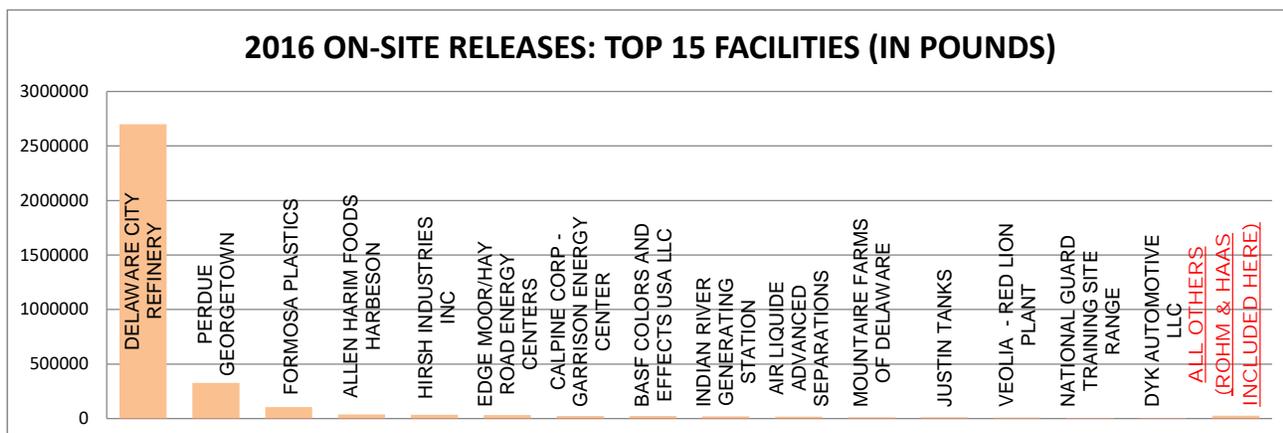


ROHM & HAAS B7, B15, CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

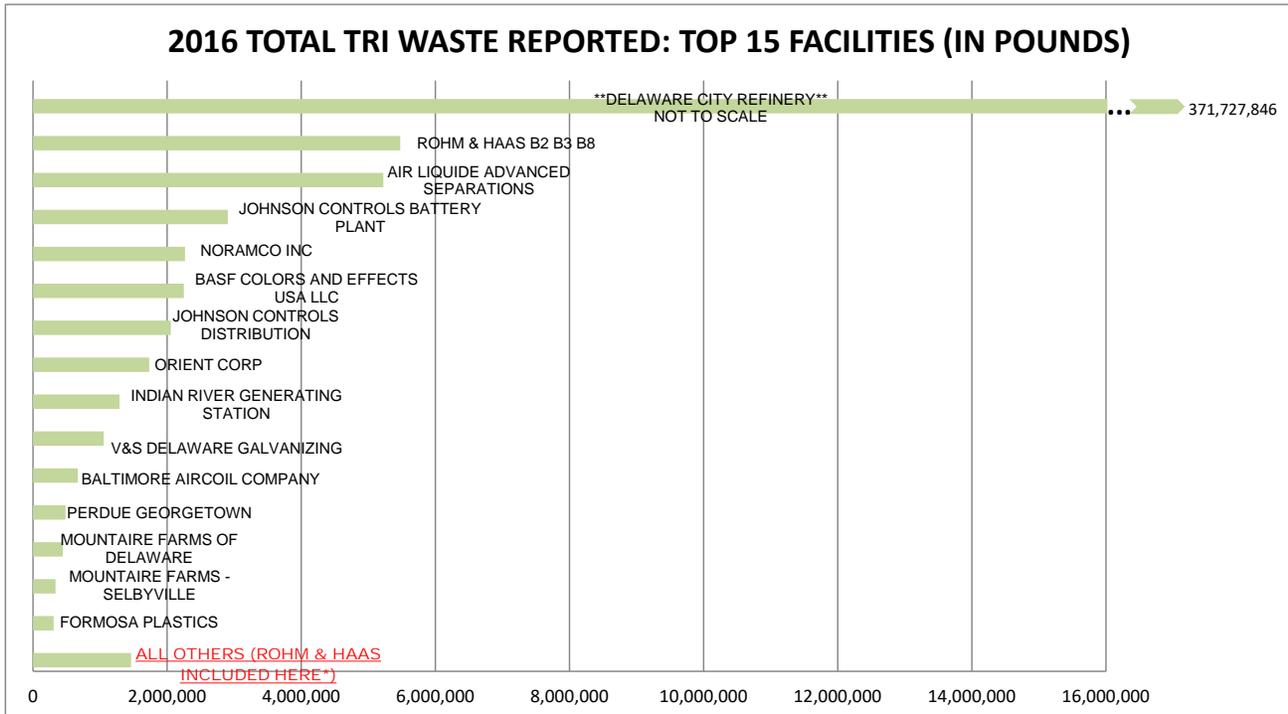




TRI FACILITY PROFILES

ROHM & HAAS B7, B15, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES, CONT.:



*Rohm & Haas B7, B15 ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2016 NATIONAL RANKINGS:

Rohm & Haas B7, B15 ranks 59th for off-site recycling of n-methyl-2-pyrrolidone (out of 394 facilities).



TRI FACILITY PROFILES

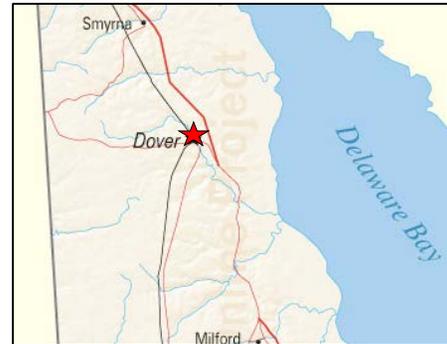
SERVICE ENERGY DOVER

LOCATION/CONTACT:

Address: 3799 N Dupont Highway
Dover, DE 19901

Phone: (302)-734-7433

Contact: Don Steiner



FACILITY OVERVIEW:

Service Energy reported under the North American Industrial Classification System (NAICS) as 424710, which covers bulk liquid storage facilities primarily engaged in merchant wholesale of crude petroleum and petroleum products.

Service Energy Dover has reported since 1998. The facility reported on two chemicals in 2016, 1,2,4-trimethylbenzene and toluene; both on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 lbs. to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
1,2,4-TRIMETHYLBENZENE*	0	0	0	0	0	0	NO	NO
TOLUENE*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



FACILITY INFORMATION SHEETS

SPI PHARMA

LOCATION/CONTACT:

Address: 40 Cape Henlopen Drive
Lewes, DE 19958

Phone: (616)-283-8506

Contact: John Creighton



FACILITY OVERVIEW:

SPI Pharma reported under the North American Industrial Classification System (NAICS) as 325412, which covers pharmaceutical manufacturing.

SPI Pharma has reported since 1987, previously as Barcroft. The facility reported on two chemicals in 2016, chlorine and nitric acid, both on short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
CHLORINE*	0	0	0	0	0	0	NO	NO
NITRIC ACID*	0	0	0	0	0	0	NO	NO
TOTAL	0	0	0	0	0	0		

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.



TRI FACILITY PROFILES

V & S GALVANIZING

LOCATION/CONTACT:

Address: 511 Carroll Drive
New Castle, DE 19720

Phone: (302) 322-1420



FACILITY OVERVIEW:

V&S Galvanizing reported under the North American Industrial Classification System (NAICS) as 332812, which covers metal coating, engraving, and allied services to manufactures.

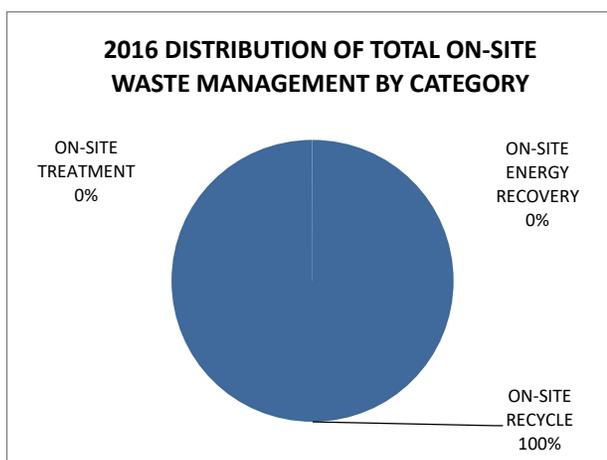
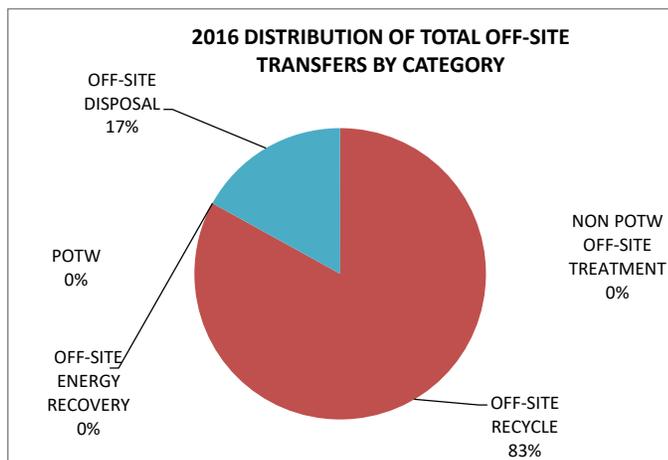
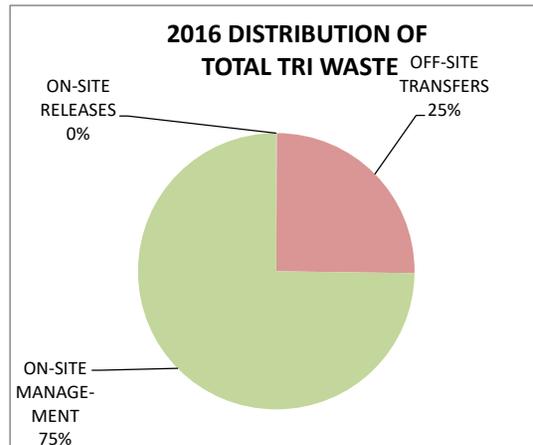
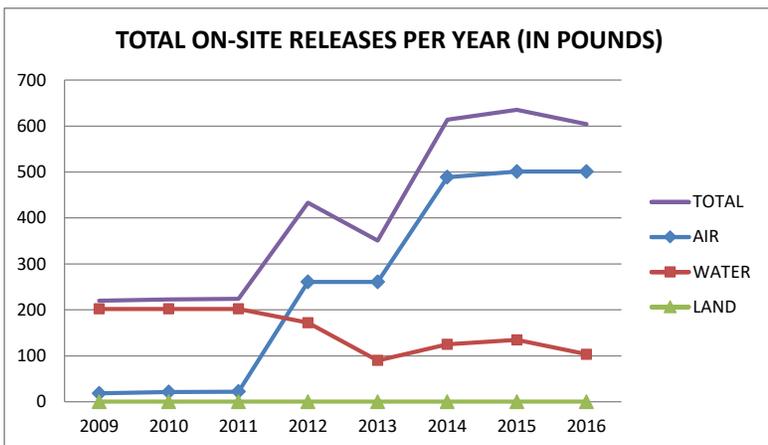
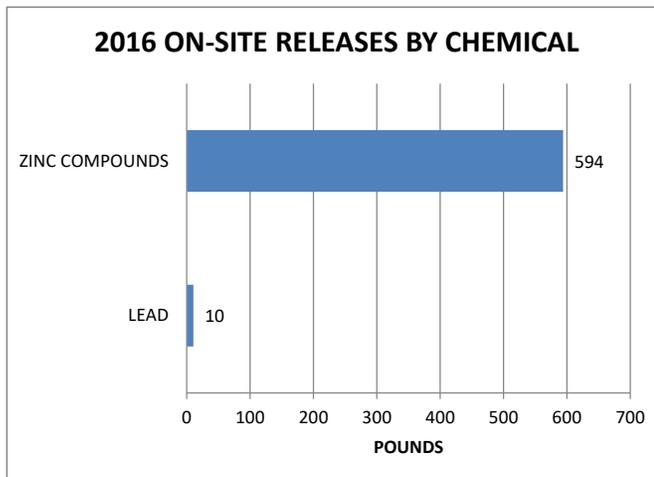
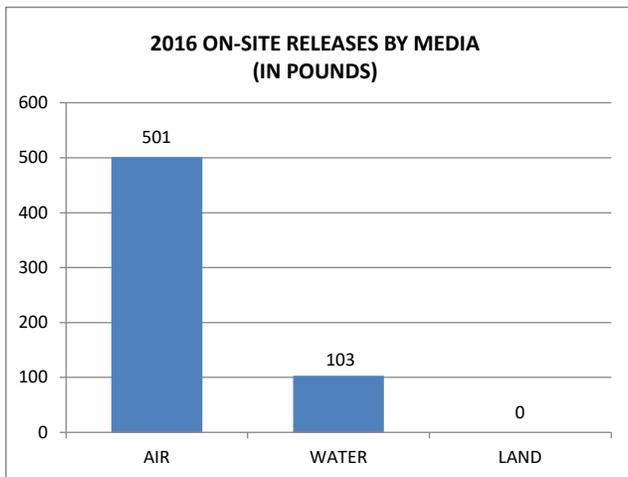
V&S Galvanizing has reported since 2009. The facility reported on two chemicals in 2016, with on-site releases to both air and water. The chemicals are that reported are found in the hot dip galvanizing process and coating. Stormwater data was also revised as more became available, combined with differences in annual precipitation for the various years. This resulted in reduced amount reported in stormwater for the last four reporting years. Between reporting years 2011 and 2012, V&S Delaware Galvanizing took a more comprehensive look at air concentration data available and revised their method of calculation to include the most conservative data. On-site releases have increased by 175% compared to 2009, but make up less than 0.1% of all waste management activities. The resulting increase in releases reported was due to a change in calculations and release assumptions based on more readily available data.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD	8	2	0	10	6,704	6,658	YES	YES
ZINC COMPOUNDS	493	101	0	594	258,199	781,088	NO	NO
TOTAL	501	103	0	604	264,903	787,746		

V & S GALVANIZING, CONT.

GRAPHICAL INFORMATION:

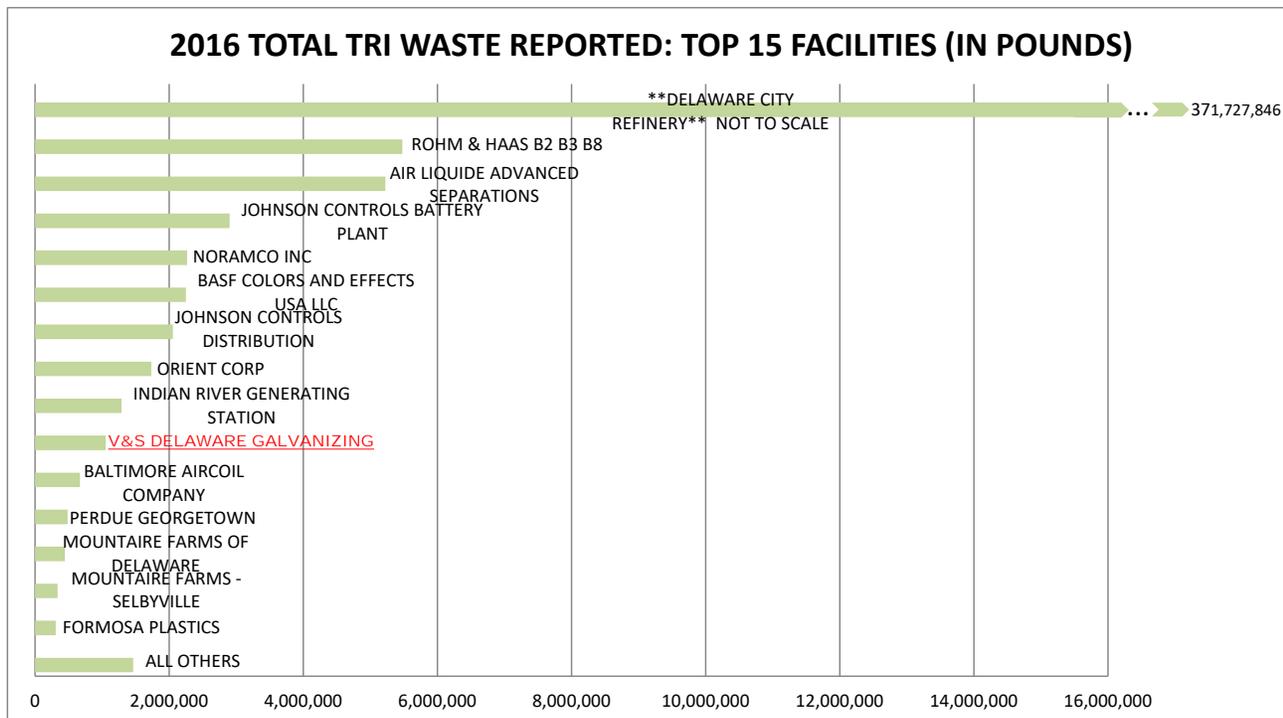
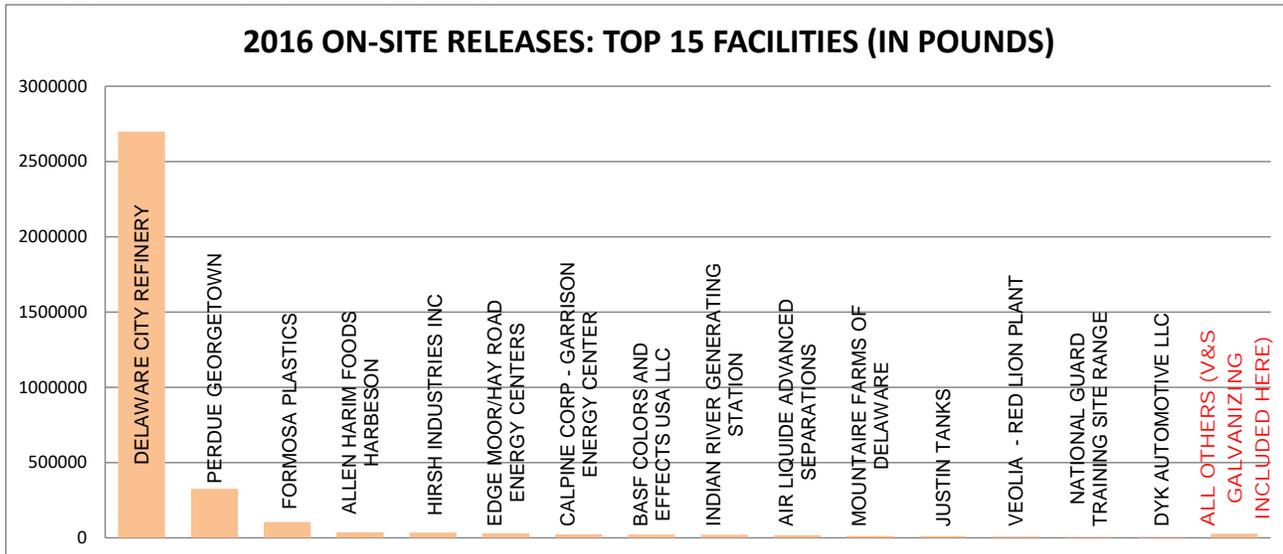




TRI FACILITY PROFILES

V & S GALVANIZING. CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:



NOTABLE 2016 NATIONAL RANKINGS:

V&S Galvanizing ranked 83rd in the off-site recycle of zinc compounds for fabricated metal facilities (NAICS 332) (out of 368 facilities).



TRI FACILITY PROFILES

VEOLIA RED LION

LOCATION/CONTACT:

Address: 766 Governor Lea Road
Delaware City, DE 19706

Phone: (302) 834-5901

Contact: W. James Harman



FACILITY OVERVIEW:

Veolia Red Lion, located north of the Delaware City Refinery (DCR), manufactures sulfuric acid derived from refinery gas received from DCR and spent sulfuric acid received from DCR and other refineries. The refinery gas is received by pipeline. Spent sulfuric acid and fresh sulfuric acid are shipped to and from the Veolia facility via pipeline, tank trucks and tank cars.

Veolia Red Lion has reported since 2005, previously as Chemours Red Lion and DuPont Red Lion. The facility reported on four chemicals in 2016, hydrazine, hydrazine sulfate, hydrogen sulfide, and sulfuric acid. Hydrogen sulfide is used in the manufacturing process as a raw material. Hydrazine hydrate and hydrazine sulfate are used as process treatment chemicals.

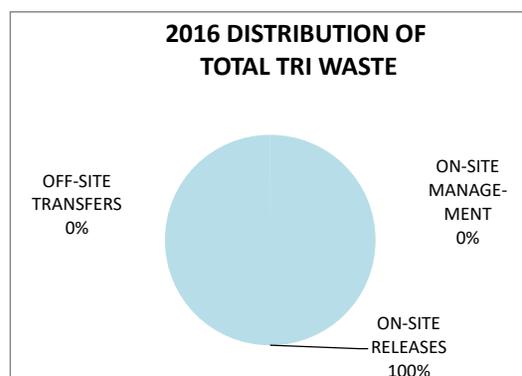
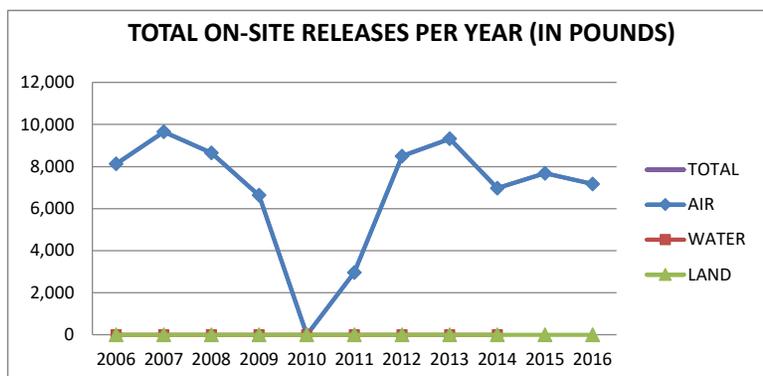
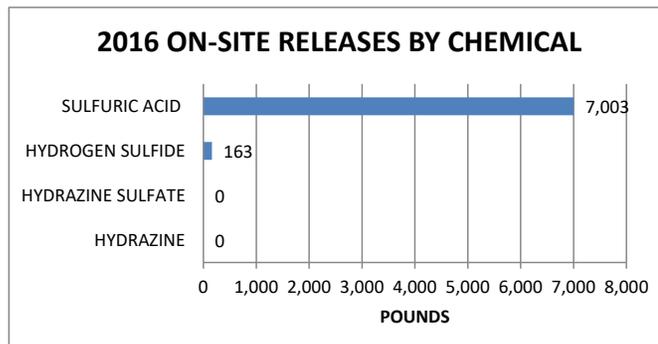
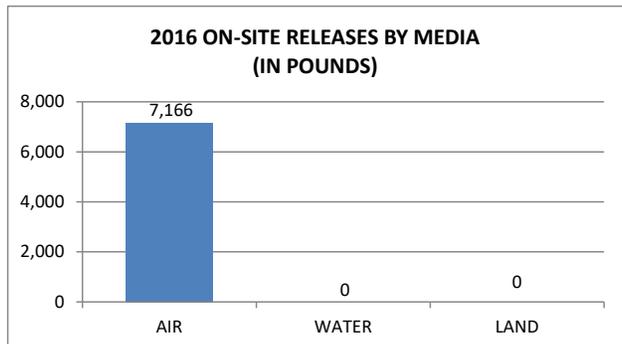
All on-site releases were to air. For 2010, while the Delaware City Refinery was idle, the Red Lion facility was also idled and was below the TRI reporting threshold for sulfuric acid and was not required to report. The Red Lion facility re-started its operations in May of 2011 after an 18 month shutdown. In 2012, the Red Lion facility was operational at more typical production rates for the entire year as compared to 7 months in 2011. For 2016, on-site releases were down 7% compared to 2015. (see *Total On-site Releases Per Year Graph* on the next page).

2016 TRI DATA (REPORTED IN POUNDS):

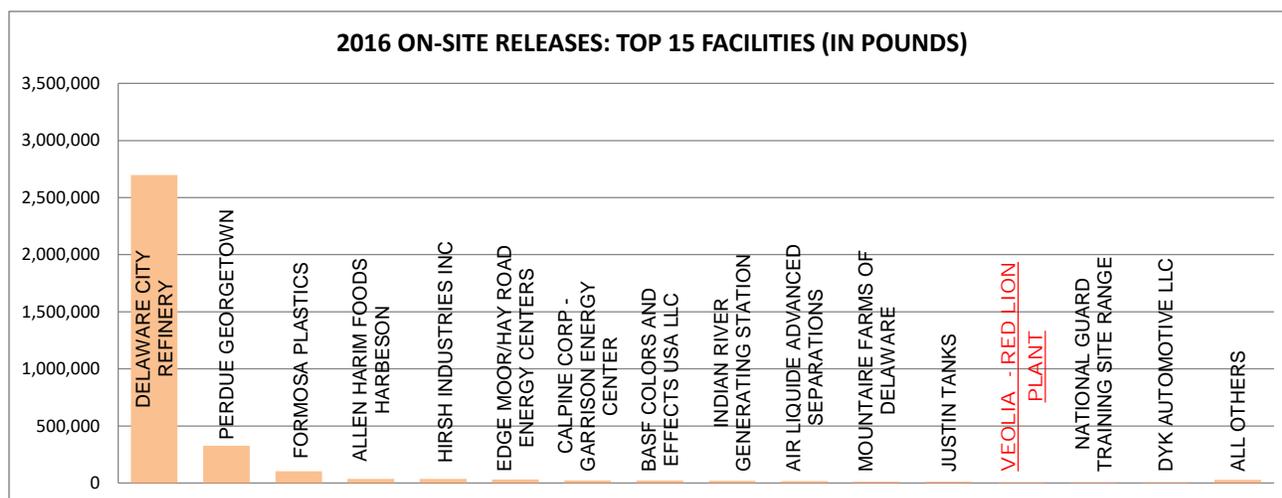
CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
HYDRAZINE	0	0	0	0	0	0	NO	YES
HYDRAZINE SULFATE	0	0	0	0	0	0	NO	YES
HYDROGEN SULFIDE	163	0	0	163	0	0	NO	NO
SULFURIC ACID	7,003	0	0	7,003	0	0	NO	NO
TOTAL	7,166	0	0	7,166	0	0		

VEOLIA RED LION, CONT.

GRAPHICAL INFORMATION:



COMPARISON TO OTHER DELAWARE TRI FACILITIES



Veolia Red Lion ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



TRI FACILITY PROFILES

VP RACING FUELS

LOCATION/CONTACT:

Address: 16 Brookhill Drive
Newark, DE 19702

Phone: (210)-635-7744

Contact: Jennifer Heath



FACILITY OVERVIEW:

VP Racing Fuels reported under the North American Industrial Classification System (NAICS) as 324199, which covers petroleum and coal products manufacturing.

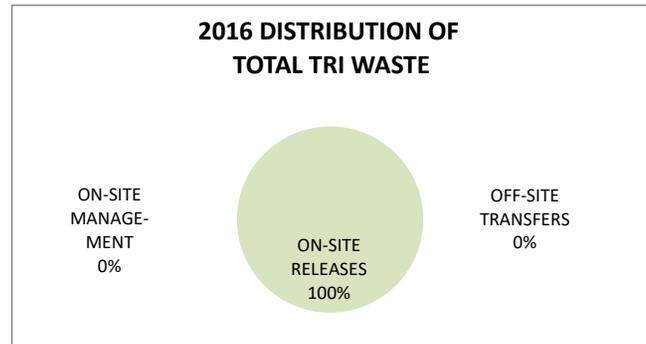
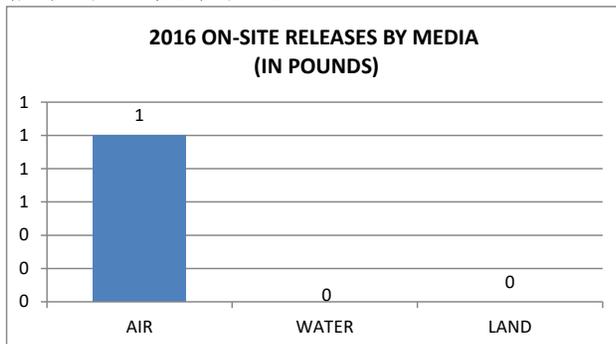
VP Racing Fuels has reported since 2001. The facility reported on 4 chemicals in 2016, with 3 chemicals being reported on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as lead, are ineligible for Form A.

2016 TRI DATA (REPORTED IN POUNDS):

CHEMICAL	ON-SITE RELEASES				OFF-SITE TRANSFERS	ON-SITE MANAGEMENT	PBT	CARCINOGEN
	AIR	WATER	LAND	TOTAL				
LEAD COMPOUNDS	1	0	0	1	0	0	YES	YES
METHANOL*	0	0	0	0	0	0	NO	NO
TOLUENE*	0	0	0	0	0	0	NO	NO
XYLENE (MIXED ISOMERS)*	0	0	0	0	0	0	NO	NO
TOTAL	1	0	0	1	0	0		

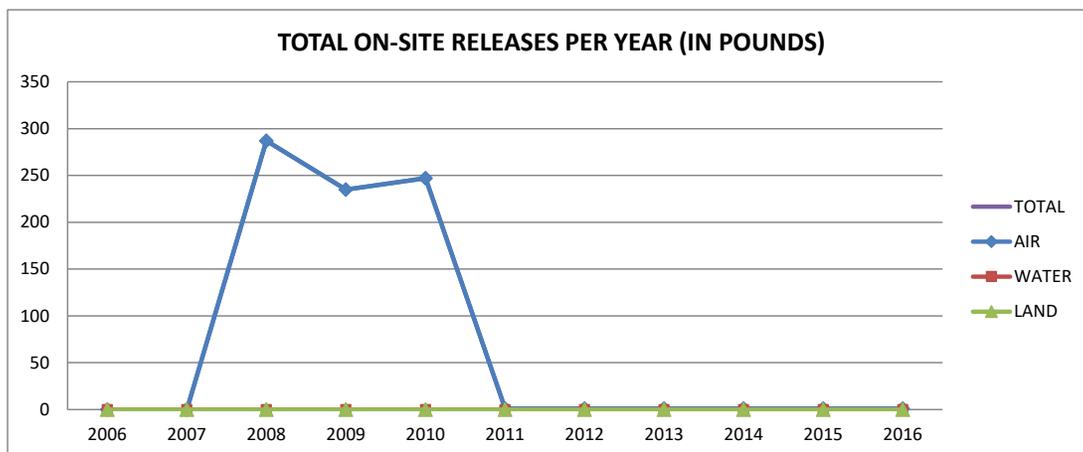
*Reported on short Form A

GRAPHICAL INFORMATION:



VP RACING FUELS, CONT.

GRAPHICAL INFORMATION CONT:



COMPARISON TO OTHER DELAWARE TRI FACILITIES:

VP Racing Fuels ranks in the bottom third in on-site releases reported by facilities in 2016. The bottom third accounted for less than a total of 82 pounds released on-site.

VP Racing Fuels ranks in the bottom third in total waste reported by facilities in 2016. The bottom third accounted for about 46,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.



EPCRA Reporting Program
Emergency Prevention and Response Section, DNREC
155 Commerce Way, Suite B
Dover, DE 19904
(302) 739-9405

The Department of Natural Resources and Environmental Control
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