

King George County LEPC

Tier II Facility Summary Report



**HAZARDOUS
MATERIAL.**

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Emergency Planning and Community Right-to-Know Act (EPCRA)

The purpose of a Tier II Hazardous Chemical Inventory Report is to provide State and local officials and the public with specific information on hazardous chemicals present at a facility during the past year. This information is used by the local Fire Departments for personnel training, hazmat pre-planning and local/regional response to spills and/or releases. The information collected from the Tier II report can help firefighters and hazmat technicians respond to the facility with the correct personal protective gear and spill response equipment, preventing injury or death. Finally, Tier II data can assist in the protection of our local environment, through proper prevention, mitigations, and response to hazardous materials incidents.

Reporting Thresholds (Title III of the Superfund Amendments and Reauthorization Act [SARA] of 1986, Section 312, Public Law 99-499, codified at 42 U.S.C Section 11022)
[EPA.gov]:

- For Extreme Hazardous Substances (EHSs), either 500 pounds or the Threshold Planning Quantity (TPQ), whichever is lower.
- For gasoline at a retail gas station, the threshold is 75,000 gallons, if the tank(s) was stored entirely underground and was in compliance at all times during the preceding calendar year
- For diesel fuel at a retail gas station, the threshold level is 100,000 gallons, if the tank(s) was stored entirely underground and was in compliance at all times during the preceding calendar year
- For all other hazardous chemicals: 10,000 pounds

Limited Analysis of Tier II Report-2017

• Facilities Reporting	11 (-1)
• Total Chemicals Reported:	45 (-18)
• # EHS Chemicals Reported:	12 (-1)
• Flammable Substances Reported:	24 (+9)
○ Diesel Fuel	
○ Propane	
○ Fuel Oil	
○ Gasoline	
○ Kerosene	
○ Motor Oil	
○ Perma Patch	
○ Calcium Chloride	
○ Sodium Chloride	
○ Smokeless Powder	
○ Polyaluminum Chloride Sol	
○ Ammonia (Anhydrous)	
○ Chemtreat 1513	
• Other Substances Reported:	8
○ Sulfuric Acid	3
○ Lead Batteries	5
• Composition of Reported Substances:	
○ Pure	22 (+1)
○ Mix	16 (-19)
○ Solid	16 (-7)
○ Liquid	31 (-12)
○ Gas	3
• Physical & Health Hazards Involved:	
○ Fire	24 (-4)
○ Release	6 (-2)
○ Reactivity	16 (-4)
○ Immediate (Acute)	41 (-19)
○ Delayed (Chronic)	35 (+1)
○ Respiratory	30 (+2)

Limited Analysis of Tier II Report 2018

- Storage Containers Used:
 - Above Ground 32 (-12)
 - Below Ground 6
 - Batteries 8 (-2)
 - Other 24 (-8)
- EHS Reports Involving Sulfuric Acid 7
 - Sulfuric Acid in Batteries @ Birchwood (8%)
 - Sulfuric Acid in Batteries @ Birchwood (93%)
 - Sulfuric Acid in Batteries @ Level 3
 - Sulfuric Acid in Battery (UPS) @ Naval Station Dahlgren
 - Sulfuric Acid in Batteries @ Verizon Naval base (7.33%)
 - Sulfuric Acid in Batteries @ Verizon Potomac Dr. (6.14%)
 - Sulfuric Acid in Batteries @ Verizon Kings Highway (8.93%)
- EHS Chemicals Reported with no Sulfuric Acid 5
 - Anhydrous Ammonia (99.95%) @ Birchwood
 - Cyclohexylamine (30%) @ Birchwood
 - Nitric Acid (70%) @ Birchwood
 - Silica, Crystalline (10%) @ WM Landfill
 - Sodium Hydroxide Solution @ WM Landfill

Changes:

- Blossman Gas facility removed from the report.
- Crop Productions removed from the report.

Comments:

Facilities that have lost and/or gained chemicals:

Birchwood Power Facility

- Chemical Added:
 - EHS Nitric Acid (70%)

Naval Base Dahlgren

- Chemical Removed:
 - Chlorine

Rappahannock Farms Sand & Gravel-

- Chemicals Added:
 - Gasoline
 - Natural Sand & Gravel

*All data is compiled as per Tier II Emergency & Hazardous Chemical Inventory Report provided from each reporting facilities.

** All of the changes that were collected from the reporting facilities are indicated in the Tier II Summary Report 2018 excel sheet in **RED** font.

Notes:

The biggest change from 2017-2019 is the removal of Blossman Gas and Crop Productions from the report. The other difference is Birchwood Power Facility added another Extreme Hazardous Substance to their facility EHS Nitric Acid (70%).



● Tier II Facilities (11)

TIER II FACILITIES
KING GEORGE COUNTY

2
1
0
2
Miles



Symbol	Name
A	7-Eleven
B	Birchwood Power Plant
C	Level 3 Communications
D	Navy Base at Dahlgren, Suite 226
E	Rappahannock Farm Sand & Gravel
F	VDOT (Office)
G	Verizon
H	Verizon
I	Verizon Building
J	Walmart
K	W/M Landfill

