



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR AND WASTE MANAGEMENT  
89 Kings Highway  
DOVER, DELAWARE 19901

Emergency Prevention and  
Response Branch

Telephone: (302) 739 - 9404  
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## **Delaware Department of Natural Resources and Environmental Control (DNREC)**

### **Summary of Hazardous Materials Emergency Response Team Capabilities**

#### **I. DNREC's Role in Emergency Response:**

- To protect Delaware land, air, shoreline/coastline and Delaware waters and minimize impacts in the event of an oil or hazardous materials spill. To do this we work with other local, state and federal agencies to assure that there will be adequate resources to conduct a quick and successful recovery and clean up.
- We cover cross disciplinary areas. We bring a broad and diverse set of talents to the initial response and long term remediation of spills of oil and hazardous materials onto land, into the air, on the Delaware River, Delaware Bay and all creeks and streams.
- In the event of a spill or release inland DNREC's Emergency Response Team (ERT) partners with local fire companies, Sussex County EMS, New Castle County Hazardous Materials Industrial Alliance to provide response capability including decontamination, oil spill response equipment, air monitoring, plume modeling and entry teams.
- In the event of a spill in the Delaware Bay our role is to coordinate and work cooperatively with a diverse number of state, federal and local organizations. DNREC's Emergency Response Team (ERT) forms a partnership with federal counterparts—US EPA, US Coast Guard, US Fish and Wildlife, NOAA, organizations—Tri-State Bird Rescue and Delaware River and Bay Cooperative, as well as other states and emergency management agencies within Delaware. We work cooperatively with this very diverse array of agencies as well as with the responsible parties and their contractors to mitigate the spill.
- In significant events, such as the recent Athos I, Bermuda Islander and IPC/US Filter releases, DNREC ERT personnel serve as the state's incident commander in the Unified Command.
- We communicate with other affected jurisdictions and provide timely updates to local affected communities and industries, water intake users and stakeholders and manage and track clean up and resource damages and mitigation.
- We bring assets to the Unified Command spill response effort to the benefit of NJ and PA as well as Delaware.
- All response agencies are familiar with each other. DNREC ERT is a full participant in the U. S. Coast Guard, Sector Delaware Bay Area Committee and the Region 3 Regional

*Delaware's good nature depends on you !*

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Response Team (RRT.) Our participation provides familiarity and resources that benefit the entire three state in the Delaware River and Bay region.

- DNREC has personnel to conduct NRDA assessments and follow through on the NRDA claims process.

## **II. DNREC ERT Personnel**

The DNREC Emergency Response Team (ERT) is available to help on a 24 hour 7 day-a-week basis at 800-662-8802. The DNREC ERT is comprised of three full time degreed Environmental Scientists, ten sworn Environmental Police Officers and seven supplemental responders who are degreed engineers and scientists. The DNREC ERT is the state's Hazardous Materials Response Team under the State of Delaware Emergency Operations Plan, Emergency Support Function 10, and the Delaware Oil and Hazardous Substance Incident Contingency Plan (SERT Plan.)

## **III. Training**

DNREC ERT personnel are trained at a minimum to the OSHA 1910.120 hazardous materials specialist level and are nationally certified through the National Board on Fire Service Professional Qualifications to the National Fire Prevention Association (NFPA) Standard 472 hazardous materials technician level.

Responders within the DNREC ERT have also received specialized training including:

- Radiation
  - Department of Energy Radiological Assistance Program Team Emergency Response (RAPTER) course,
  - Environmental Protection Agency Radiation Safety course, and
  - U.S. Department of Justice Weapons of Mass Destruction Radiation/Nuclear Course for Hazardous Materials Technicians in Mercury, Nevada.
- Transportation response certification through the Association of American Railroads
  - Highway Emergency Response Specialist, and
  - Railcar and Advanced Railcar Response Specialist.
- Shipborne Hazardous Materials Incident Response technician level trained through Mr. Doug Dillon, USCG (Ret) and Executive Director of the Tri-state Maritime Safety Association and Chief of the DE/NJ/PA Maritime Incident Response Team.
- Helicopter Hoist rescue specialist certified and trained by Priority #1 Air Rescue in accordance with FAA regulations class D external cargo.
- SCAT—DNREC has over 16 Shoreline Assessment (SCAT) trained staff as a result of 2006 DNREC sponsored SCAT training.

## **IV. Equipment**

The DNREC ERT has a wide variety of detection equipment able to mobilize and to assist an investigation, including:

1. Radiation Detection Equipment

- Rae Systems Gamma Pagers,
- Thermo MK2 Electronic Dosimeters,
- Berkley Nucleonics SAM 935 Radioisotope Identifier,
- Thermo 40 GL Radiation Monitor with the following probes and ranges,
  - teleprobe extends 12 ft. with FHZ 612 detector (10 uR/h – 1000 R/h),
  - FHZ 512 detector for finding hidden gamma sources,
  - NBR FHZ 672 detector which discriminates between natural and artificial gamma radiation up to 10 mR/h,
  - FHZ 632 L Dose Rate detector 10 uR/h to 10 R/h, and
  - FHZ 732 GM alpha beta surface contamination detector.

2. Biological Detection Equipment

- Response Biomedical RAMP kits,
- Protein test kits,
- Smiths Detection Bioseq,
- Smiths Hazmat ID, and
- Ahura Raman First Defender.

3. Toxic Industrial Chemical Detection Equipment

- Rae Systems MultiRae, AreaRae, and MiniRae,
- Smiths Detection Gas ID,
- Inficon portable GC/MS,
- Drager CMS.

4. Chemical Warfare Detection Equipment

- Smiths Detection APD 2000,
- Proengin AP2C

5. Explosives and Narcotics Detection Equipment

- Smiths Sabre 4000

6. Temperature Detection Equipment

- MSA 5000 thermal imaging camera,
- Raytech Infra Red thermometer.

7. Personal Protective Clothing

- A full range of personal protective clothing from level A thru level D,
- Structural fire fighting Nomex gear for use on flammable substances, and
- NFPA compliant level A suits.

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#### 8. Vehicles

- 7 specialized response vehicles capable of mobilizing equipment and personnel within 15 minutes of dispatch,
- All-Terrain vehicle and trailer for beach and off-road access,
- 21 foot Whaler Justice boat with T top, tow bits and twin 115 hp outboards,
- General purpose Crestliner jon boat with 75 hp outboard,
- Air support available by request through the Delaware State Police Aviation Unit's Jet Ranger Helicopters and Cessna 182 fixed wing aircraft.

#### 9. Communications

- 800 MHz radios
- GPS units
- Dispatch through Kent County 9-1-1 Emergency Operations Center
- Verizon cellular phones

#### V. Emergency Contact Numbers:

**DNREC ERT 24/7 Emergency Response and Notification: 1-800-662-8802**

<b>PERSONNEL</b>	<b>OFFICE*</b>	<b>CELL*</b>
<b>Jamie Bethard, ERT<sup>1</sup> Ops. Team Leader</b>	<b>739-9404</b>	<b>632-0264</b>
<b>Matthew Higgins, ERT</b>	<b>739-9404</b>	<b>632-0267</b>
<b>Ellen Malenfant, ERT Mgr.</b>	<b>739-9404</b>	<b>632-6043</b>
<b>James Faedtke, EPO Chief</b>	<b>739-9401</b>	<b>540-6336</b>
<b>Collin P. O'Mara, DNREC Secretary</b>	<b>739-9000</b>	
<b>David Small, DNREC Deputy Secretary</b>	<b>739-9000</b>	<b>270-5446</b>
<b>Marjorie A. Crofts, Division Director</b>	<b>739-9400</b>	<b>270-0476</b>

**\*Area Code = 302**

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<sup>1</sup> Emergency Response Team