

**Crawford County  
Local Emergency Planning Committee (LEPC)**

**Off-Site Response Plan**

For

**Titusville Water Works**

220 Oil Creek Drive  
Titusville, PA 16354



Oil Creek Township, Crawford County, PA

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## Part I – Basic Plan

### Certification of Annual Review

<b>Facility Name</b>	Titusville Water Works
<b>Address</b>	220 Oil Creek Drive Titusville, PA 16354
<b>Municipality</b>	Oil Creek Township
<b>County</b>	Crawford County
<b>Latitude</b>	41.630713
<b>Longitude</b>	-79.692903
<b>Facility Owner/Operator</b>	City of Titusville
<b>Address</b>	107 North Franklin Street Titusville, PA 16354

This Off-Site Response Plan has been developed by the Local Emergency Planning Committee for the Emergency Planning District of Crawford County in accordance with the provisions of the federal Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III; the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA); and the Hazardous Material Emergency Planning and Response Act, Pennsylvania Act 1990-165, as amended. It has been prepared in conjunction with the emergency planners at **Titusville Water Works** and represents the cooperative efforts of both the community and industrial planners in response to a hazardous material emergency at the facility.

<b>Plan initially approved by LEPC on:</b>	11/01/1986
<b>Annual Review approved by LEPC on:</b>	11/15/2018

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Steve Nickell, Chairman  
Crawford County Local Emergency Planning Committee

## **Purpose**

The purpose of this Off-Site Response Plan is to describe procedures and establish responsibilities for community planning for and response to a hazardous material emergency at **Titusville Water Works**. This plan is in accordance with the requirements of the federal Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III; the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA); and the Hazardous Material Emergency Planning and Response Act, Pennsylvania Act 1990-165, as amended.

## **Organization**

As directed by the Hazardous Material Emergency Planning and Response Act (Act 1990-165, as amended), Crawford County is designated as the Emergency Planning District (EPD), functioning, consistent with PEMC policy and guidelines, under the direction of the Crawford County Board of Commissioners. The District is subsumed within Crawford County and is collocated with it. The Crawford County Department of Public Safety (DPS) is designated as the lead county agency responsible for coordinating the development, execution, and management of programs and functions of the Local Emergency Planning Committee (LEPC).

See Crawford County EOP, SARA Title III, and Act 165 for required composition of the LEPC.

## **Emergency Procedures**

1. The first responder on-scene will establish incident command and the primary command post.
2. Other response services will co-locate command units and operational vehicles at the staging location or on-scene site selected by the first responder.
3. Each agency will coordinate activities and decisions under the unified command system.
4. In any situation deemed appropriate by PEMA, a PEMA official will proceed to the scene as On-Scene Liaison Officer.
5. If the Governor proclaims a Disaster Emergency, a PEMA official will be designated On-Scene Coordinator.

## **Training and Exercises (see county Training and Exercise Plan)**

Training programs and training schedules for emergency response and medical personnel are maintained at the Crawford County Department of Public Safety. Exercise schedules are maintained at the Crawford County Department of Public Safety.

**Plan Development and Maintenance (see county EOP)**

The LEPC will review and update this plan annually. Notices of reviews and copies of changes will be provided to PEMA.

**Distribution**

1. Titusville Water Works
2. Titusville Fire Department
3. Hydertown Volunteer Fire Department
4. EmergencyCare
5. Weavertown Environmental Group
6. Titusville Police Department
7. Pennsylvania State Police – Corry
8. Titusville Emergency Management Coordinator
9. Oil Creek Township Emergency Management Coordinator
10. Pennsylvania Emergency Management Agency – Western Area Office
11. Crawford County Department of Public Safety
12. Crawford County DPS 9-1-1 Center
13. Venango County Emergency Management Agency

**Situation**

<b>Extremely Hazardous Substance(s) (EHS) present at facility</b>	<b>CAS # UN #</b>	<b>Quantity Container Type Location</b>
Chlorine	7782-50-5  1017	1,500 pounds  150-pound cylinders (10)  Chlorine Room
<b>Vulnerability Zone</b>	Initial isolation: 330 feet Protective action distance: 1 mile	
<b>Threats to local population</b>	Corrosive, Oxidizer, and Toxic	
<b>Threats to environment</b>	Water polluting material	
<b>Is this facility within the 100-year flood plain?</b>	Yes	
<b>Institutions/Sites contributing to additional risk</b>	ITU, Inc. – Titusville Titusville Dairy Products Verizon – Titusville Central Office	
<b>Population subject to risk within Vulnerability Zone</b>	1,551 addressed structures	

<b>Facilities subject to risk within Vulnerability Zone</b>	Township & city businesses & homes
<b>Environmentally sensitive areas</b>	Oil Creek
<b>Other counties and states within Vulnerability Zone</b>	Venango County
<b>List of shipping routes for SARA substances</b>	State Highway 8 to Oil Creek Drive south to the facility
<b>Facility's method to determine occurrence of a release</b>	Automatic alarm system with a horn & strobe light
<b>Evacuation Routes</b>	State Highway 8: North & South State Highway 27: East & West
<b>Additional hazardous materials on-site</b>	Diesel fuel (generator)
<b>Facility Resources</b>	
<b>Technical experts</b>	Facility Operators
<b>Equipment</b>	Full-face respirators (2) & Chlorine Repair Kit "A"
<b>Vehicles</b>	Pickup Truck
<b>Medical care system (including decontamination capabilities)</b>	Shower and Eye Wash Station
<b>Cleanup and recycling capabilities and/or contractors</b>	Onyx (Youngsville, PA)
<b>Community Resources</b>	
A listing of community resources is maintained in the county EOC.	

**References/Authority:** See county EOP.

<b>Responsibilities</b>	
<b>Crawford County Commissioners</b>	See Crawford County EOP.
<b>Crawford County Local Emergency Planning Committee (LEPC)</b>	After each emergency or exercise, the LEPC should discuss the activities conducted with a view toward improving response planning.

## Part II – Responsibilities Checklists

Facility Emergency Coordinator Responsibilities			
Date of Activation: _____ Reason for Activation: _____			
Completed or N/A	By (initials)	Time	Task
			Pre-Emergency
			The facility must provide a listing of facility resources to be included in this plan.
			See Crawford County EOP for additional pre-emergency responsibilities.
			Emergency Notification
			<b><u>Immediately notify:</u></b>
			<b>911</b>
			Then notify: Pennsylvania Emergency Management Agency: 800-424-7362 or 717-651-2001
			Then notify: National Response Center ( <u>if required</u> ): 800-424-8802
			Operations
			Take appropriate actions within capabilities to stop or contain the release of hazardous materials and provide for the protection of employees
			Meet the first responders and brief them on the situation
			Keep a facility representative at the command post to provide technical assistance and information
			Recovery
			Provide for cleanup of the contaminated area
			After the emergency period is over, and if the release was a reportable quantity that extended beyond the facility's boundaries, the facility's owner/operator will submit a written report to PEMA and Crawford County DPS within 14 calendar days of the release in accordance with Section 206(d), Pennsylvania Act 165 (see Enclosure 6).

**Crawford County DPS 9-1-1 Center  
Responsibilities**

Date of Activation: \_\_\_\_\_ Reason for Activation: \_\_\_\_\_

Completed or N/A	By (initials)	Time	Task
			Emergency Notification
			Immediately dispatch: <ul style="list-style-type: none"> <li>• Titusville Fire Department (26)</li> <li>• Hydetown Volunteer Fire Department (14)</li> <li>• EmeryCare (34)</li> <li>• Titusville Police Department (800)</li> <li>• Pennsylvania State Police – Corry</li> </ul>
			After public safety agencies have been dispatched, start an incident in the Knowledge Center in coordination with Crawford County DPS EMA personnel.  This will notify: <ul style="list-style-type: none"> <li>• PEMA Western Area Office                             <ul style="list-style-type: none"> <li>○ 800-972-7362</li> </ul> </li> <li>• PA DEP Northwest Regional Office                             <ul style="list-style-type: none"> <li>○ 814-332-6945</li> </ul> </li> </ul>
			Dispatch Weavertown Environmental Group when requested by Crawford County DPS EMA personnel.
			Notify the following if applicable: <ul style="list-style-type: none"> <li>• Federal Aviation Administration                             <ul style="list-style-type: none"> <li>○ 412-886-2580</li> </ul> </li> <li>• Oil Creek &amp; Titusville Lines                             <ul style="list-style-type: none"> <li>○ 814-827-7863</li> </ul> </li> </ul>

**Crawford County Emergency Management Coordinator  
Responsibilities**

Date of Activation: \_\_\_\_\_ Reason for Activation: \_\_\_\_\_

Completed or N/A	By (initials)	Time	Task
			Emergency Notification
			Notify: <ul style="list-style-type: none"> <li>• Municipal Emergency Management Coordinator</li> <li>• Crawford County Commissioners</li> </ul>
			Operations
			Designate county Liaison Officer to coordinate activities at the emergency site if more than one municipality is affected by the release
			Keep State EOC informed of incident response activities via Knowledge Center
			Determine the emergency service organization that will be in charge at the site of neutralization, containment, and cleanup if more than one municipality is affected
			In coordination with Commissioners and the Public Information Officer, prepare and disseminate public information material on protective actions to provide clear instructions to the population at risk (use EAS and NOAA Weather Radio as appropriate)
			Allocate county resources in response to the requirements of the emergency
			Ensure an on-scene spokesperson (Public Information Officer) is designated

Incident Commander Responsibilities			
Date of Activation: _____ Reason for Activation: _____			
Completed or N/A	By (initials)	Time	Task
			Establish an on-scene unified command post in a radio-equipped vehicle or facility that has communications with Fire & Rescue, EMS, Law Enforcement, and other agencies as needed.
			Confirm whether there has been a release of hazardous material, and if so, direct appropriate actions
			If terrorism is suspected, report suspicions immediately to county EOC/EMC and proceed with due caution to protect responders and citizens from potential secondary terrorist attacks and take necessary precautions to preserve the site as a crime scene
			<b>Airborne Release</b>
			Move out of the immediate area or take cover as appropriate
			Keep all persons upwind of the release
			Request air samples for laboratory analysis when possible
			Control all food and drinks in the area that might have been contaminated
			Use appropriate respiratory safety equipment as required by the incident
			<b>Surface Water Contamination</b>
			Isolate area (do not allow public access)
			Determine if water is used as a potable water source
			Request appropriate samples and laboratory analysis from local or DEP representatives
			Prohibit human consumption in coordination with on-scene DEP representatives
			<b>Land Spill</b>
			Isolate the incident area from public access
			Confine the spill to as small an area as possible
			Monitor the area
			Obtain laboratory samples
			<b>Operations</b>
			Coordinate actions of response teams on the scene
			Recommend population protection measures (shelter-in-place or evacuation) to the county EMC

Incident Commander Responsibilities (continued – page 2)			
Completed or N/A	By (initials)	Time	Task
			Assign Law Enforcement coordinator
			Assign Communications assistant
			Assign any other staff position that may be required to properly coordinate the operation
			Establish and maintain communications with all on-scene response teams and the county EOC
			Brief field personnel as they arrive on scene
			Request that on-scene representatives maintain contact with the command post
			<p><b>Establish Hot Zone</b>            Area around the accident/fire that could contain contamination</p> <ul style="list-style-type: none"> <li>• Access to the area requires               <ul style="list-style-type: none"> <li>○ Proper authorization</li> <li>○ Appropriate protective clothing</li> <li>○ Proper monitoring equipment</li> <li>○ Established time limit in the area</li> <li>○ Personnel record of time in the area</li> </ul> </li> </ul>
			<p><b>Establish Warm Zone</b>            A buffer perimeter used as a holding area for personnel and equipment waiting to relieve those within the contamination area</p> <ul style="list-style-type: none"> <li>• The following conditions will be established:               <ul style="list-style-type: none"> <li>○ Safe distance from contamination area to minimize exposure from released materials</li> <li>○ No eating, drinking, or smoking within this perimeter</li> <li>○ Decontamination prior to leaving perimeter</li> </ul> </li> </ul>
			<p><b>Establish Cold Zone</b>            A clean area containing the following:</p> <ul style="list-style-type: none"> <li>• Clearly marked command post</li> <li>• Backup resources</li> <li>• On-scene Public Information Officer</li> <li>• Emergency medical center (if required)</li> <li>• Sanitation facilities for extended response</li> <li>• Contamination monitoring station</li> <li>• Access Control Points (ACP)</li> </ul>

Incident Commander Responsibilities (continued – page 3)			
Completed or N/A	By (initials)	Time	Task
			Designate timekeepers for hot and warm zones to check personnel into and out of the zones and to advise them of the following: <ul style="list-style-type: none"> <li>• Eating, drinking, and smoking policies</li> <li>• Maximum time allowable within each zone</li> <li>• Types of protective clothing required within each zone</li> <li>• Contamination monitoring upon leaving zone</li> <li>• Directions to decontamination station if needed</li> </ul>
			Monitor any changes in accident characteristics and evaluate threat to emergency response personnel, traveling public, and nearby residents
			Relocate zone perimeters based on evaluation of changing characteristics
			Notify EMC of need for additional county, state, or federal expertise based on evaluation of changing characteristics
			Select and operate decontamination points for chemicals, toxins, and radiation if required
			<b>Decontamination Point</b>
			Change area
			Wash-down area
			Plastic bags for contaminated clothing
			Decontamination equipment
			Personal showers
			Scrub-down shuffle boxes
			Spare self-contained breathing apparatus cylinders
			Monitoring equipment
			Replacements for damaged or contaminated clothing
			Respirator replacement cartridges
			Relief personnel
			Garbage cans
			Rest area with stools for those in protective clothing

<b>Incident Commander Responsibilities</b> (continued – page 4)			
Completed or N/A	By (initials)	Time	Task
			<b>Protective Actions: Evacuation</b>
			Evacuation is sometimes, but not always, necessary. When considering evacuation versus sheltering, the following criteria should be reviewed:
			1. Hazardous substance released and its potential health effects
			2. Quantity of release
			3. Additional risk facilities
			4. Distance from release
			5. Effectiveness of precautionary measures
			6. Duration of release
			7. Potential for outbreak of fire
			8. Health hazards
			9. Property vulnerability
			10. Type of release
			11. Wind direction
			12. Sheltering factor of facility
			13. Sheltering factor of threatened site
			14. Availability of special transportation
			15. Area of municipality affected
			16. Number of people to be evacuated
			17. Road network available for evacuation
			18. Weather
			The individual (or pre-designated official) authorized to order an evacuation of the population at risk is the Incident Commander acting on behalf of the municipal elected officials.

**Fire & Rescue Officer-in-Charge  
Responsibilities**

Date of Activation: \_\_\_\_\_ Reason for Activation: \_\_\_\_\_

Completed or N/A	By (initials)	Time	Task
			Direct Fire & Rescue response to hazardous materials emergencies
			Provide a designated representative at the incident command post
			Restrict response participation to training levels to which personnel have been certified
			Consult with CHEMTREC if necessary (800-424-9300)
			Consult with Department of Defense HazMat Hotline if necessary (800-851-8061)
			Render any life-saving assistance possible under the circumstances
			Establish communications between the Fire & Rescue command post and the on-scene command post
			Provide specialized equipment for use in control, containment, and stabilization of the emergency site, and/or identify the need for additional specialized equipment
			Require intrinsically safe two-way radios inside the hot zone until determined unnecessary
			Work upwind from the incident site and keep out of smoke as much as possible
			Extinguish any fires as quickly as possible if appropriate
			Restrict personnel exposure as much as possible
			Do not move any radioactive materials without the consent of the Incident Commander
			Ensure that all personnel and equipment are monitored for possible contamination prior to leaving the scene
			Keep command post informed

Municipal Emergency Management Coordinator Responsibilities			
Date of Activation: _____ Reason for Activation: _____			
If only one municipality is affected by the hazardous material release, the municipal EMC or other designated representative will coordinate the response effort and act as the Incident Commander (see Incident Commander Responsibilities). If more than one municipality is affected, the county will exercise responsibility for coordination and support of the area of operations. In either case, the municipal EMC should:			
Completed or N/A	By (initials)	Time	Task
			Implement the local EOP
			Keep local elected officials advised
			Keep county EOC/EMC informed
			Provide resource support to responders within capability
			Request additional support as necessary
			Provide logistical assistance to the Incident Commander relating to special concerns within the community

Hazardous Materials Response Team Officer-in-Charge Responsibilities			
Date of Activation: _____ Reason for Activation: _____			
The Crawford County DPS 9-1-1 Center will dispatch the appropriate level of Hazardous Materials Response Team when incident criteria are met and/or when requested.			
Completed or N/A	By (initials)	Time	Task
			Act as the technical advisor to the Incident Commander
			Coordinate with the Incident Commander at the command post
			Contain, control, and mitigate the release of hazardous materials

**Law Enforcement Officer-in-Charge  
Responsibilities**

Date of Activation: \_\_\_\_\_ Reason for Activation: \_\_\_\_\_

<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			Notify the nearest State Police barracks (if applicable) and maintain communications
			Restrict access to the incident area as directed by the Incident Commander
			Prohibit the removal of packages, shipping containers, or wreckage except by authorized personnel
			Detour traffic and pedestrians if necessary
			Keep everyone upwind of smoke and dust
			Provide a designated Law Enforcement representative at the incident command post
			Provide a radio-equipped vehicle for backup communications
			Provide traffic and crowd control
			Secure the perimeter as established by the Incident Commander
			<b>Evacuation</b>
			Provide route alerting
			Provide security for evacuated areas
			Maintain traffic control
			Assist in evacuation
			Establish Access Control Points (ACP)
			Establish Traffic Control Points (TCP)
			Use special precautions as directed by the Incident Commander during entry into the incident area due to the effects of the hazardous materials
			Keep all unauthorized individuals a safe distance from the incident area (suggested distance is 2,000 feet unless otherwise notified)

<b>Emergency Medical Services Officer-in-Charge Responsibilities</b>			
Date of Activation: _____ Reason for Activation: _____			
<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			EMS personnel will utilize Commonwealth of Pennsylvania Statewide EMS Protocols at all times
			Establish emergency medical facilities outside the vulnerable area
			Provide pre-hospital care for the ill and/or injured
			Identify causes of illnesses and/or injuries
			Support rescue operations as appropriate
			Provide communications between emergency medical personnel in the field, the county EOC, and hospital medical staff
			Provide assistance with transfer and/or evacuation of victims and/or bedridden patients with appropriate documentation
			Designate a representative to maintain communications with the command post
			Advise and assist the Incident Commander
			Coordinate the activities of the emergency medical response personnel
			Request additional ambulances as necessary
			Provide advice to the Incident Commander regarding health hazards during hazardous materials emergencies
			Coordinate with DEP representative to determine air pollution and toxic gases during a release

<b>Public Information Officer Responsibilities</b>			
Date of Activation: _____ Reason for Activation: _____			
<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			Gather, verify, and disseminate information
			Act as a single point-of-contact for the media
			Coordinate with the facility's public relations officer
			Forward all pertinent information to the county EOC

<b>Transportation Officer Responsibilities</b>			
Date of Activation: _____ Reason for Activation: _____			
<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			Provide a liaison to the county EOC
			Obtain transportation for the evacuation of residents
			Recommend alternate routes to motorists

<b>Public Works and Engineering Officer Responsibilities</b>			
Date of Activation: _____ Reason for Activation: _____			
<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			Coordinate sanitation services at the scene
			Designate a representative to advise and assist the Incident Commander
			Maintain communications with the command post
			Coordinate debris removal
			Coordinate heavy equipment
			Provide assistance requested by the Incident Commander
			Coordinate termination of utilities to the facility
			Assess possible sewer contamination after incident

<b>School District Representative Responsibilities</b>			
Date of Activation: _____ Reason for Activation: _____			
<b>Completed or N/A</b>	<b>By (initials)</b>	<b>Time</b>	<b>Task</b>
			Provide a liaison to the county EOC
			Provide county EOC with a list of vulnerable schools
			Direct evacuation of schools if appropriate
			Coordinate school bus unmet needs during evacuations
			Maintain list of schools that may be used as mass care centers during emergencies

## Part III – Contact Information

<b>Facility Emergency Coordinators</b>			
1	Barry Kellogg	Business	814-827-5300 ext. 319
		Mobile	814-758-4630
		Home	814-827-4186
		Email	<a href="mailto:water@cityoftitusvillepa.gov">water@cityoftitusvillepa.gov</a>
2	Vicki Kuberry	Business	814-827-5300 ext. 319
		Mobile	814-671-9304
		Home	814-775-0708
3	Kurt McFadden	Business	814-827-5300 ext. 355
		Mobile	724-372-2150
		Home	814-432-7683
		Email	<a href="mailto:dirwwwtp@cityoftitusvillepa.gov">dirwwwtp@cityoftitusvillepa.gov</a>
4	Ryan Wescoat	Mobile	814-671-5378
		Business	814-827-5300 ext. 311
<b>Emergency Management Coordinators</b>			
Allen W. Clark Crawford County		Business	814-724-2552 or 814-724-2548 (24-hour)
		Mobile	814-720-4871
		Home	814-587-4109
Mike Wonderling City of Titusville		Home	814-827-9174
William Wingo Oil Creek Township		Home	814-827-2626
<b>Public Safety Agencies</b>			
Crawford County DPS 9-1-1 Center		Emergency	911
		Business	814-724-2548
Titusville Fire Department		Emergency	911
		Business	814-827-3041
Hydetown Volunteer Fire Department		Emergency	911
		Business	814-827-9825
EmergyCare		Emergency	911
		Business	814-827-7899
Weavertown Environmental Group		Emergency	800-746-4850
Titusville Police Department		Emergency	911
		Business	814-827-1890
Pennsylvania State Police (Corry Barracks)		Emergency	911
		Business	814-663-2043

<b>Additional Agencies</b>		
American Red Cross	Business	888-733-5603
Titusville Area School District	Business	814-827-2922
University of Pittsburgh at Titusville	Business	814-827-4400
PA DEP NW Regional Office	Business	814-332-6945 or 717-787-4343 (24-hour)
PA Fish & Boat Commission	Business	814-337-0444
PEMA	State EOC	800-424-7362 or 717-651-2001
National Response Center	Emergency	800-424-8802
CHEMTREC	Emergency	800-424-9300

<b>Emergency Alert System (EAS) Stations</b>			
<b>Company</b>	<b>Station</b>	<b>Phone</b>	<b>Fax</b>
Forever Media, Inc. (Meadville)	WTIV 1230 WMGW 1490 WRQI 94.3 WGYW 100.3 WXMJ 104.5	814-724-1111	814-333-9628
Forever Media, Inc. (Franklin)	WFRA 1450 WGYI 98.5 WHMJ 99.3 WRQW 107.7	814-432-2188	814-437-9372
Vilkie Communications, Inc.	WMVL 101.7	814-333-9011	814-333-2562
Nexstar Broadcasting, Inc.	WJET JET 24 WFXP FOX 66	814-964-2400 814-860-5635	814-868-3041
Lilly Broadcasting	WICU 12 WSEE 35 The CW 3	814-454-8812	814-454-3753
Stream Media	Streamnewsnow.com	814-775-0984 ext. 105	888-827-5841
Armstrong	Ad Channel 36	814-336-3174 ext. 236	814-337-2510

# Part IV – Enclosures

## Enclosure 1: Chemical Information Page



### CHLORINE

UN 1017  
 Shipping Name: Chlorine  
 Other Names: Liquid chlorine



**WARNING!**

- **POISON! BREATHING THE GAS CAN KILL YOU!**
- Firefighting gear (including SCBA) provides **NO** protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel
- **STRONG OXIDIZER! WILL INCREASE THE INTENSITY OF A FIRE! MAY CAUSE FIRE UPON CONTACT WITH COMBUSTIBLES!**

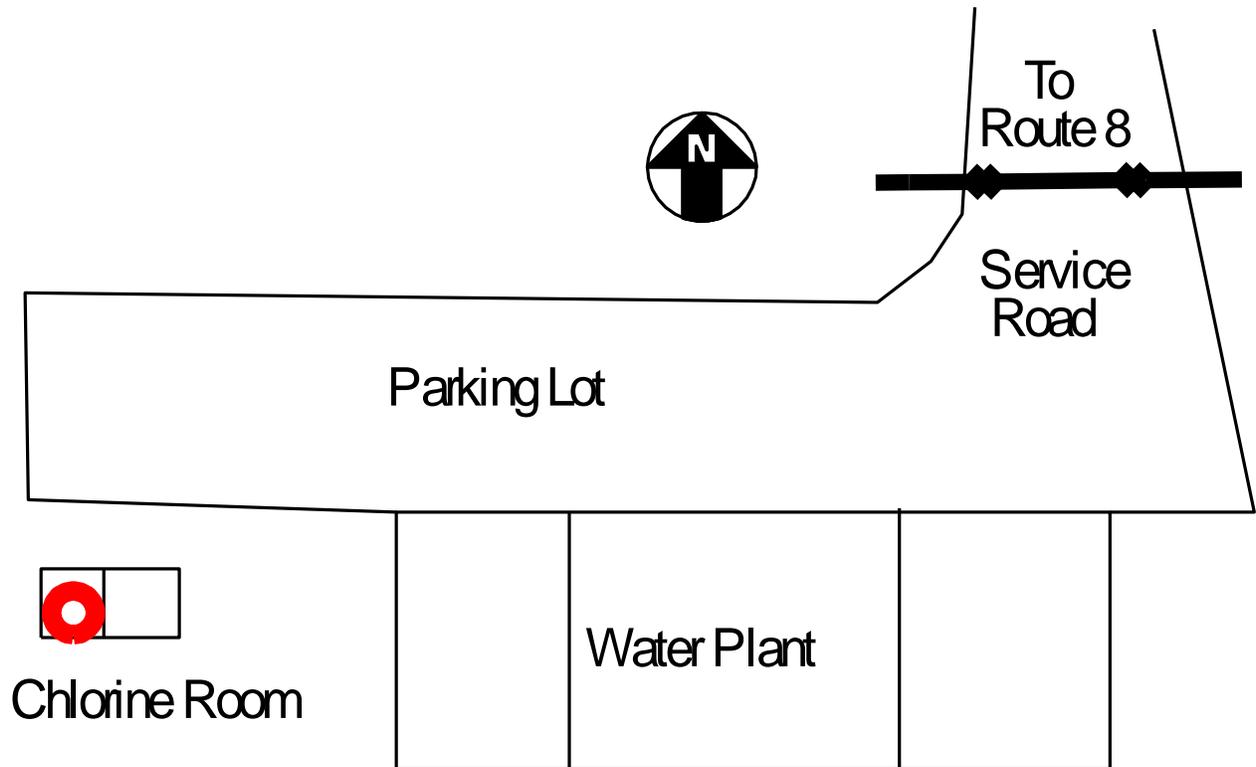
<p><b>Hazards:</b></p> <ul style="list-style-type: none"> <li>● Severely irritating to skin, eyes, nose and lungs; skin and eye contact causes severe burns and blindness</li> <li>● Gas is heavier than air and will collect and stay in low areas</li> <li>● Container may explode when exposed to fire</li> <li>● Reacts with water to form toxic hypochlorous acid</li> <li>● Contact with liquid may cause frostbite</li> <li>● Corrosive to some rubbers and plastics</li> </ul>	<p><b>Description:</b></p> <ul style="list-style-type: none"> <li>● Greenish-yellow gas</li> <li>● Shipped as a pressurized liquefied gas</li> <li>● Pungent bleach-like odor</li> <li>● Reacts with water to form toxic hypochlorous acid and is slightly soluble in water</li> <li>● Nonflammable but may cause combustibles to ignite</li> <li>● Gas is heavier than air and will collect and stay in low areas</li> </ul>
<p><b>Awareness and Operational Level Training Response:</b></p> <ul style="list-style-type: none"> <li>● <b>Do not put yourself in danger by entering a contaminated area to rescue a victim</b></li> <li>● Stay upwind and uphill</li> <li>● Determine the extent of the problem</li> <li>● <b>BACK OFF!</b> - Isolate a wide area around the release or fire, deny entry and call for expert help</li> <li>● For container exposed to fire, evacuate the area in all directions because of the risk of explosion</li> <li>● Evacuate or shelter in place the immediate area and downwind for a large release</li> <li>● Notify local health and fire officials and pollution control agencies</li> <li>● If contaminated runoff enters waterways, notify downstream users of potentially contaminated water</li> </ul>	<p><b>Operational Level Training Response:</b></p> <p><b>RELEASE, NO FIRE:</b></p> <ul style="list-style-type: none"> <li>● Stop the release if it can be done safely from a distance</li> <li>● Use large amounts of water well away from the release to disperse gas - contain runoff</li> <li>● Ventilate confined area if it can be done without placing personnel at risk</li> <li>● If in a building, evacuate building and confine vapors by closing doors and shutting down HVAC systems</li> </ul> <p><b>FIRE:</b></p> <ul style="list-style-type: none"> <li>● Material does not burn; fight surrounding fire with an agent appropriate for the burning material</li> <li>● If material is not leaking, cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely</li> <li>● If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure location</li> </ul>

**First Aid:**

- **Do not put yourself in danger by entering a contaminated area to rescue a victim**
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
  - ◆ Inhalation - remove the victim to fresh air and give oxygen if available
  - ◆ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - ◆ Eye - rinse eyes with large volumes of water or saline for 15 minutes
- Seek medical attention
- Frostbite - warm injured area in very warm water
- Toxic effects may be delayed
- For skin burns decontaminate with water and apply a clean dry dressing

CAS: 7782-50-5

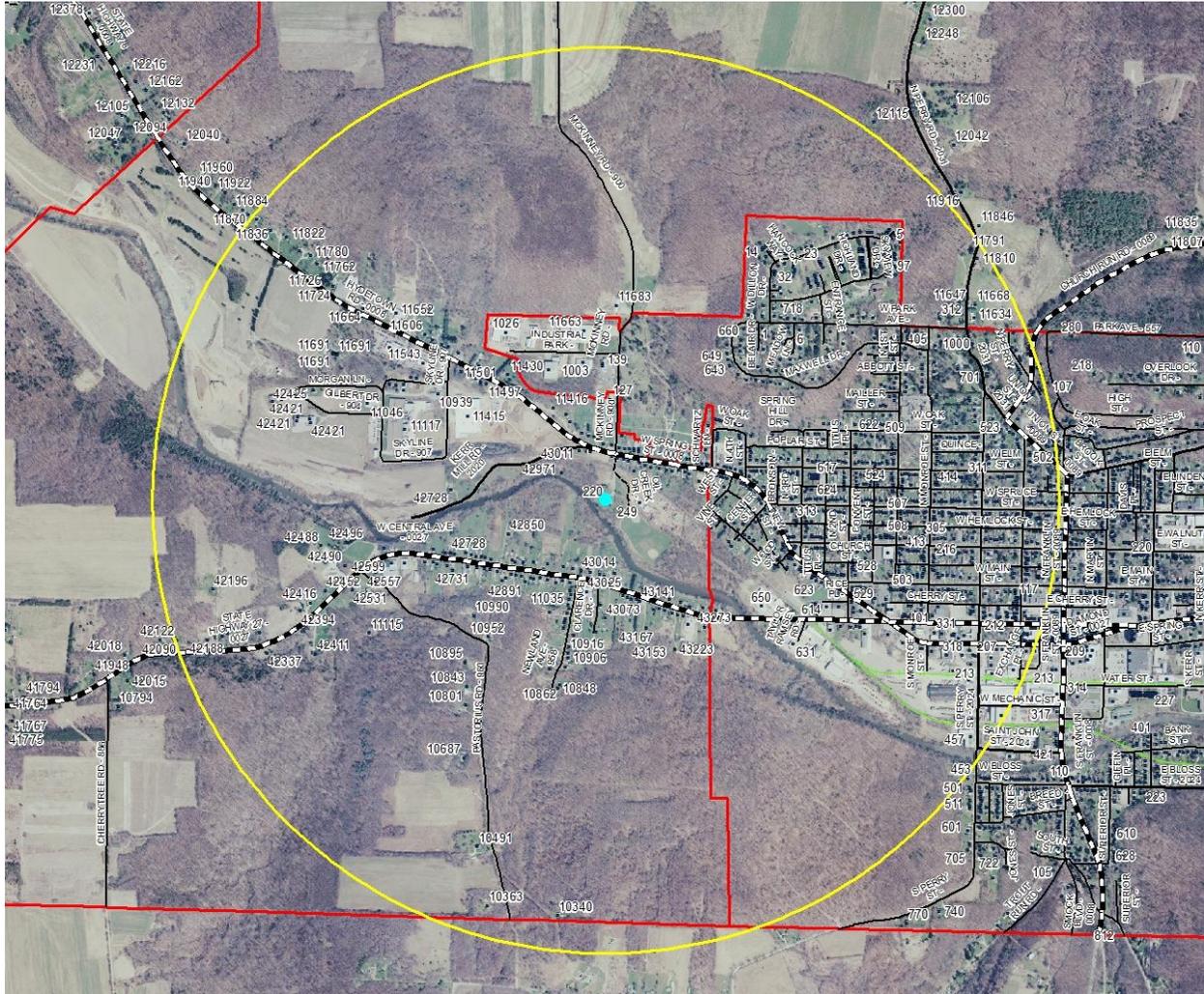
Enclosure 2: Sketch of Facility/Location of EHS



**Enclosure 3: Aerial Photograph (Google Earth)**



# Enclosure 4: Vulnerability Zone Map



Radius of yellow circle = 1 mile

**Enclosure 5: Emergency Release Notification Form**

<b>Emergency Release Notification</b>			
<p>This reporting is applicable <b>only</b> for the release of any <b>Extremely Hazardous Substance</b> or <b>CERCLA Hazardous Substance</b>, which results or may result in exposure to persons <b>outside</b> the site boundaries. The following information is for State and County agencies and is to be reported <b>without delay</b> to the extent the information is known at the time.</p>			
<b>Agency</b>	<b>Date</b>	<b>Time</b>	<b>Agency Contact Name</b>
Crawford County DPS through 9-1-1 • <b>911</b> or 814-724-2548			
PEMA State EOC • 800-424-7362 or 717-651-2001			
National Response Center • 800-424-8802			
<b>Person Making Notification</b>			
Name:			
<b>Release Information</b>			
<p>Start report with one or the other of these:</p> <p>“This is <b>Titusville Water Works</b>. We have a chemical release in progress and request emergency response from fire and other agencies in accordance with the plan. The release includes a (Choose one) Title III “Extremely Hazardous Substance” or a “CERCLA Hazardous Substance.” The following information is available: (read numbers 1 through 13 on the next page).</p> <p><b>Or</b></p> <p>“This is <b>Titusville Water Works</b>. This call is to relay information only, in compliance with Title III reporting requirements. We have had a reportable release but do not believe it warrants an emergency response. The following information is available: (read numbers 1 through 13 on the next page).</p>			

**Enclosure 5: Emergency Release Notification Form (continued – page 2)**

Do not delay report for full information!					
1	Chemical name of substance released:				
2	Quantity released (pounds):				
3	Location of release:				
4	Date and time of release:				
5	Duration of release:				
6	Release was into:	Air	Surface Water	Sewer	Ground
7	Anticipated acute or chronic health risks:				
8	Advice on medical attention for exposed individuals (if appropriate):				
9	Proper precautions to take (including evacuation if appropriate):				
10	Name and phone number of person to contact for further information:	Name		Phone	
11	Response actions taken by facility:				
12	Weather conditions:				
13	Response personnel at scene:				

**Enclosure 6: Hazardous Material Emergency Follow-Up Report**

**This report** has been prepared by or on behalf of the below-named company or individual in order to provide emergency notification information about a hazardous material release that occurred from a facility or vehicle that is either owned or operated by the named company or individual. Submission of this report is required by Section 304(c) of the Emergency Planning and Community Right-to-Know Act of 1986 (SARA Title III) (42 U.S.C. Section 11004 [7c]) and Section 206 (d) of the **Pennsylvania** Hazardous Material Emergency Planning and Response Act (35 P.S. Section 6022.206[d], AS AMENDED).

Release Information						
1	Name of company, owner, or operator:					
2	Address of company, owner, or operator:					
3	Chemical name of substance released:					
4	Quantity released (pounds):					
5	Location of release (describe site):					
6	Date, time, and duration of release:					
7	Release was into:	Air	Surface Water	Sewer	Ground	Highway Surface
8	Actions taken to respond to and contain the release, including the name of any cleanup contractor (provide a complete description - use separate page if necessary):					
9	Any known or anticipated acute or chronic health risks associated with the release (describe in detail - if not appropriate, state none):					
10	Advice on medical attention for exposed individuals (if appropriate):					
11	Actions to be taken to mitigate potential future incidents (describe in detail):					

**This report** was prepared by the undersigned on behalf of the company or individual named in paragraph 1. The information provided herein is true and correct to the best of my knowledge and belief. **Note:** If you have any questions about the preparation of this report, call the Pennsylvania Emergency Management Agency at (717) 651-2121 between 8am and 4pm, Monday through Friday.

Prepared by	Title	Telephone

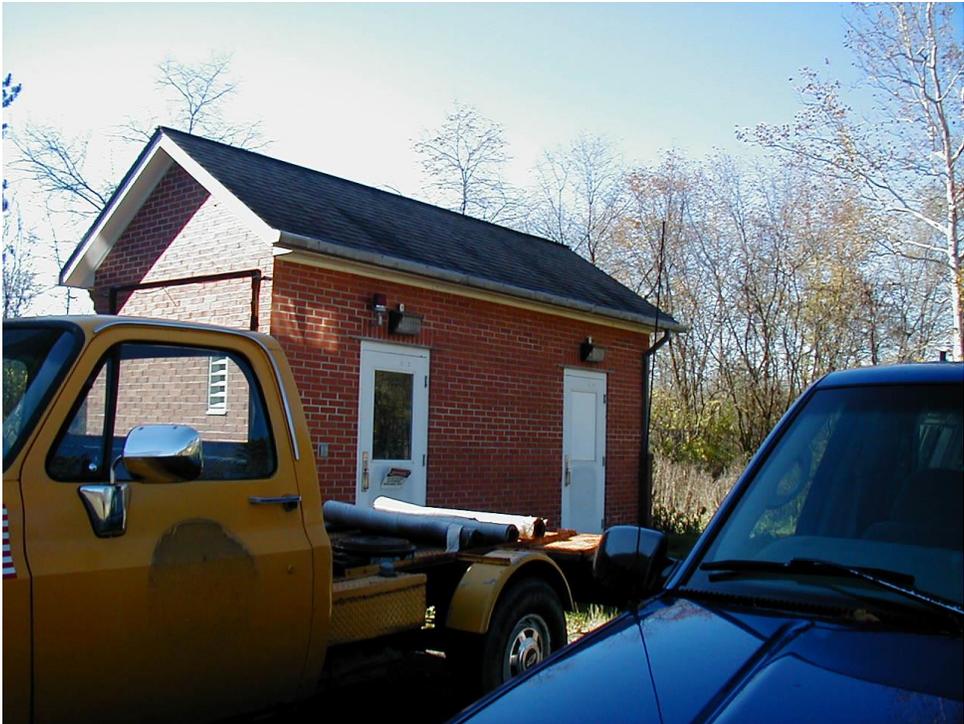
**Enclosure 7: Off-Site Response Plan Data Entry & DPS 9-1-1 Center Form**

1	County:	Crawford County		
2	Facility:	Titusville Water Works		
3	Facility Address:	220 Oil Creek Drive Titusville, PA 16354		
4	Facility Mailing Address:	107 North Franklin Street Titusville, PA 16354		
5	Contact	Business	Mobile	Home
	Barry Kellogg	814-827-5300 ext. 319	814-758-4630	814-827-4186
	Vicki Kuberry	814-827-5300 ext. 319	814-671-9304	814-775-0708
	Kurt McFadden	814-827-5300 ext. 355	724-372-2150	814-432-7683
	Ryan Wescoat	814-827-5300 ext. 311	814-671-5378	
6	Facility Latitude:	41.630713		
	Facility Longitude:	-79.692903		
7	PA DLI Identification #:	30736		
8	EHS	Quantity	CAS #	
	Chlorine	1,500 pounds	7782-50-5	
9	Vulnerability Radius:	Up to 1 mile		
10	Population at Risk:	1,551 addressed structures		
11	Date LEPC Approved Annual Update:	11/15/2018		
PEMA Review – Plan Adequate:		Yes or No		
Type of Plan:	A	A – Annual		
		R – Initial		
		N – Notification That Plan is Required		
		X – Possible Planning Facility – Status to be Determined		
<b>Initial Dispatch</b>				
Fire & Rescue:	Titusville (26) & Hydetown (14)			
EMS:	EmergyCare (34)			
Law Enforcement:	Titusville (800) & PSP – Corry			
DPS EMA Staff:	EMA1 & EMA2			
<b>Additional Notifications (if requested)</b>				
Weavertown Environmental Group	PA Fish & Boat Commission			
PEMA State EOC	American Red Cross			
PEMA Western Area Office	Local Airport			
National Response Center	Federal Aviation Administration			
Municipal EMC	Oil Creek & Titusville Lines			
PA DEP	Crawford County Commissioners			
Date Plan Updated:	10/10/2018			

**Enclosure 8: Photographs**



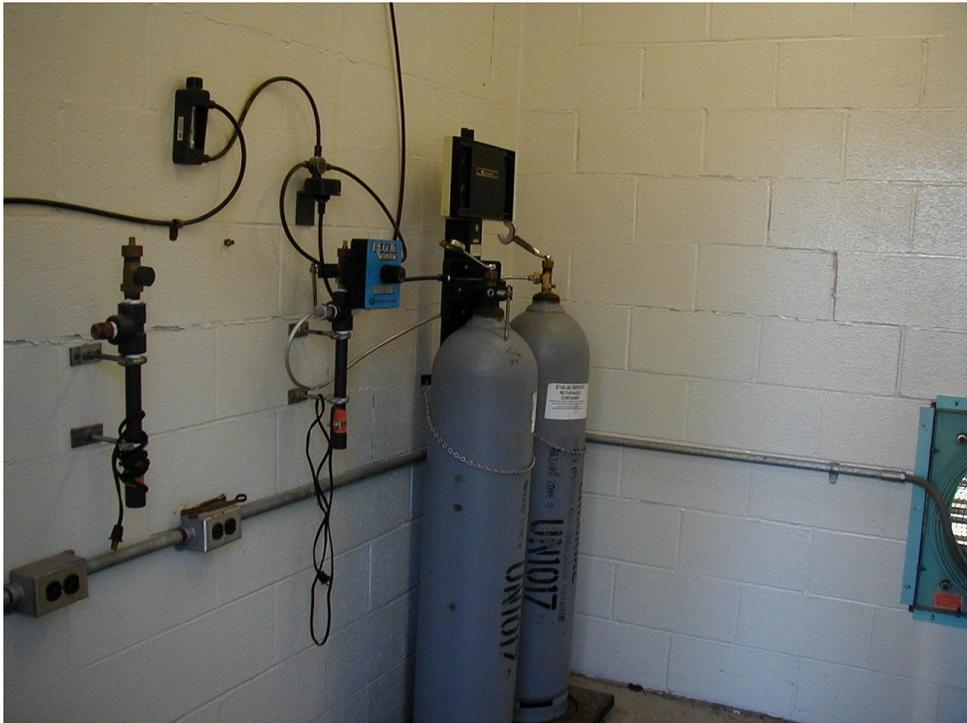
Water Treatment Plant (left) & Chlorine Building (right)



Chlorine Building



Door to Chlorine Room



Chlorine Cylinders in use



Water Treatment Plant (2018)



Water Treatment Plant (2018)

