

**EPCRA Off-Site Facility Plan
For
*Holmen Well #7***

I. FACILITY NAME: Holmen Well #7

Name:
Location Address: 999 Briggs, Holmen, Wisconsin
Phone Number: Village of Holmen Public Works 608-526-6322
Facility ID # Assigned by WEM:

II. FACILITY EMERGENCY COORDINATOR: ALTERNATE COORDINATOR:

Name: Dean Olson	Name: Pete Mezera
Position: Director of Public Works	Position: Assistant Director of PW
Telephone Number: 608-526-6322	Telephone Number: 608-526-6308
24-Hr Phone: 608-797-4531	24-Hr Phone: 608-797-7667

III. CHEMICALS ON SITE: EXTREMELY HAZARDOUS SUBSTANCES

<u>CAS #</u>	<u>Chemical Name/ Trade Name</u>	<u>Max. Quantity</u>	<u>Vul. Zone</u>	<u>Rural/ Urban</u>
7782-50-5	CHLORINE	150 lbs.	2.2 miles	Rural

OTHER HAZARDOUS CHEMICALS:

<u>Name</u>	<u>Max. Quantity</u>
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IV. PRIMARY EMERGENCY RESPONDERS:

- Holmen Fire Department
- Holmen Police Department
- Holmen Public Works
- La Crosse County Sheriff Department
- Tri-State Ambulance Service
- La Crosse County Type II Hazardous Materials Response Team
- West Central Regional Type I Hazardous Materials Response Team
- La Crosse County Emergency Management
- Wisconsin Department of Natural Resources

V. SUPPORT AVAILABLE FROM FACILITY:

CHEMICAL EMERGENCY MONITORING EQUIPMENT:

Chlorine tank leak detection fluid
Hydro GA-170 gas alarm

PERSONAL PROTECTIVE EQUIPMENT:

emergency breathing apparatus

OUTSIDE RESOURCES AVAILABLE:

La Crosse County does have a Type II Hazardous Materials Response Team. For Type I incidents, contact the West Central Regional Hazardous Response Team through the Wisconsin Emergency Management Duty Officer (800-943-0003).

VI. GENERAL INFORMATION AND ASSUMPTIONS: (Disclaimer)

The vulnerability zones set forth in this Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre-emergency plans and standard operating procedures as well as the County's Emergency Operations Plan - Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

The field incident commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this Plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

The vulnerability zones determined in this Plan are for general "PLANNING PURPOSES."

STATE REPORTING REQUIREMENTS:

Wisconsin Statute §292.11 WISCONSIN SPILL LAW

The spill law, Chapter 292.11, Wis. Stats., requires that a person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance shall notify the department *immediately* of any discharge not exempted by the statute. The Department has a 24-hour toll free number for reporting spills: **1-800-943-0003**.

Chapter NR 706 Wisconsin Administrative Code

Ch. NR 706, Wis. Adm. Code establishes exemptions for small quantity spills of agricultural and petroleum related compounds, as well as substances that have a federal reportable quantity established. These quantities are termed "de minimis" in that below these levels, under the following conditions, state notification of a discharge is not required. While reporting requirements may be exempted, *cleanup requirements remain*. If a discharge meets one of the following de-minimis exemptions *it must be reported to the Wisconsin DNR*:

1. Has not evaporated or been cleaned up in accordance with NR 700 – 726,
2. Adversely impacts or THREATENS to adversely impact the environment,
3. Causes or THREATENS to cause chronic and/or acute human health impacts, or
4. Presents or THREATENS to present a fire or explosion hazard or other safety hazard (including all evacuations)

VII. HAZARD ANALYSIS SUMMARY:

- A. Brief description of facility. Holmen Well #7 is located on Briggs Road near the US Highway 53 overpass in the middle of an open field near residential neighborhoods and is adjacent to Holmen High School. Well #7 is a part of a 4-well system that provides potable water for the Village of Holmen. Gaseous chlorine is used at this facility for water disinfection.
- B. Greatest potential for release. The most likely circumstance that could result in a release of chlorine gas would occur during routine maintenance or tank connection/disconnection operations. Normal operation of the well facility does not increase the risk of a chlorine gas release.
- C. Vulnerability Zone for each EHS chemical, including parameters used to arrive at the Vulnerability Zone (rural or urban, wind speed, atmospheric stability, class, level of concern, duration of release).

The hazard analysis is as follows:

EHS Chemical: Chlorine
Form: Liquid, Powder in solution, Solid, Gas, Granular
Container Size: 150 lbs.
Concentration: 100 %
Parameters used in the hazard analysis:
Level of Concern: 1/10 IDLH
Duration of Release: 10 minutes

WORST CASE SCENARIO:

Rural
Wind Speed: 3.4 mph
Atmospheric Stability Class: F
Vulnerability Zone: 2.2 miles

RE-EVALUATION SCENARIO:

Rural
Wind Speed: 11.9 mph
Atmospheric Stability Class: D
Vulnerability Zone: .3 miles

It is estimated that up to 7,950 people may be affected by an accidental release of chlorine gas from well #7.

- D. Possible limitations or problems that could arise. A significant release of chlorine gas from Well #7 could adversely affect persons occupying Holmen High School or the adjacent athletic fields.
- E. Estimate of population affected. 7,950
- F. Conclusions. Chlorine gas quickly dilutes in free air, however those persons in direct contact with the gas may experience life-threatening injury. Rapid egress from the immediate downwind area is critical.

VIII. SPECIAL FACILITIES AFFECTED:

There are approximately 30 identified Special Facilities located within the 2.2 mile vulnerability zone for Well #7. The list of Special Facilities includes schools, day care centers, churches, nursing homes and other sites where gatherings of persons with unique care needs or challenges may be located. See Attachment #3, Detailed List of Special Facilities, for address and phone number information.

<u>Facility Name</u>	<u># of people affected</u>
505 Pine Cone Place Adult Family Home	3
Bethany Hearten House III	12
Bethany Heights Assisted Living	16
Bluffview Memory Care	60
Childfirst – Holmen Day Care	90
Children’s Palace Day Care	75
Children’s Tree House of Holmen	72
Countryside Park	
Deer Wood Park	
Deerfield Adult Family Home	3
Elizabeth Drive Adult Family Home	4
Evergreen Elementary School	595
Halfway Creek Park	
Holmen Fire Department	100
Holmen Baptist Church	unknown
Holmen High School	983
Holmen Library	150
Holmen Middle School	769
Holmen Police Department	8
Holmen Village Hall	100
Kim’s Kiddie Campus Day Care	8
Mallard Drive Adult Family Home	4
Mayo Clinic – Holmen	
McHugh Manor Elderly Housing	16
Miss Rhonda’s Safari	8
Our Little Angels Childcare Center	50
Prairie Home Adult Family Home	37
Prairie View Elementary School	353
Remington Hills Park	
St. Elizabeth Ann Seton Catholic Church	unknown
Sylvan Park	
Town of Holland Town Hall	
US Post Office – Holmen	
Vickie’s Kids in Care	8
Viking Elementary School	753
Whispering Pines Park	

IX. POPULATION PROTECTION:

The determination to shelter in place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside of the risk zone.

Roles and responsibilities relative to evacuation and sheltering as well as a list of shelters appears in the La Crosse County Emergency Operations Plan, Annex E.

X. SPECIAL CONSIDERATIONS:

- A. Limited access to facility. This facility is located at the far north end of a single lane with a gate adjacent to the Holmen High School property.
- B. Address environmental concerns at facility and in Vulnerability Zone. There are no known containment, recovery or neutralizing methods for a release of chlorine gas. There are no streams, creeks, lakes or rivers near this facility.
- C. Actual response capabilities at facility are limited.
- D. Potential for affecting other jurisdictions. The 2.2 mile vulnerability zone extends into the Town of Onalaska and the Town of Holland.

XI. REQUIRED ATTACHMENTS:

- A. Facility Layout Highlighting EHS Chemical Storage Location
- B. Vulnerability Zone map highlighting Special Facilities
- C. Chemical Data Sheet on EHS Chemicals (Response Information Data Sheets or MSDS)
- D. Hazardous Materials Worksheet/Calculations or Computer-Generated Vulnerability Zone Calculations

NOTE: There are no local ordinances in La Crosse County which mandate specific routes for vehicles carrying Extremely Hazardous Substances (EHSs). Thus, EHSs may be transported over any local, state, or federal highway for which weight limits are met.

XII. DISTRIBUTION LIST:

Holmen Public Works Department
Holmen Fire Department
Wisconsin Emergency Management
La Crosse Regional Hazardous Materials Response Team

ATTACHMENTS:

Facility Layout Highlighting EHS Chemical Storage Location
Vulnerability Zone Map highlighting Special Facilities
Detailed list of Special Facilities
Chemical Data Sheet on EHS Chemicals
Computer-Generated Vulnerability Zone Calculations