

EPCRA OFF-SITE PLAN FOR
 La Crosse Municipal Well #21
 1900 Farwell Street
 La Crosse WI 54601

I. FACILITY NAME:
 La Crosse Municipal Well #21
 1900 Farwell Street
 La Crosse WI 54601
 608-789-7385
 Facility ID # Assigned by WEM: **003370-8**

II. FACILITY COORDINATOR:	ALTERNATE COORDINATOR:
Lee Anderson	Mark Johnson
Water Superintendent	Utilities Manager
Telephone Number:	Telephone Number:
608-789-7385 (w)	608-789-7536 (w)
608-498-6616 (personal cell phone)	608-792-0498 (c)

III. CHEMICALS ON SITE: EXTREMELY HAZARDOUS SUBSTANCES

<u>CAS #</u>	<u>Chemical/ Trade Name</u>	<u>Max. Amt.</u>	<u>Vul. Zone</u>	<u>Rural/ Urban</u>
7782-50-5	Chlorine	600-lb. (Four 150-lb. cylinders)	2.2 miles	Urban

OTHER HAZARDOUS CHEMICALS:

None

IV. PRIMARY EMERGENCY RESPONDERS:

West Central Regional Type I Hazardous Materials Response Team
 La Crosse County Type II Hazardous Materials Response Team
 La Crosse Water Facility Crew
 La Crosse Fire Department
 La Crosse Police Department
 La Crosse County Sheriff's Department
 Wisconsin State Patrol
 Wisconsin Department of Natural Resources
 La Crosse County Emergency Management
 Tri-State Ambulance

V. SUPPORT AVAILABLE FROM FACILITY:

The Water Department Facility Crew can be called in by radio to support La Crosse Fire Department. The La Crosse Fire Department has a cylinder containment kit.

OUTSIDE RESOURCES AVAILABLE:

The La Crosse Fire Department serves as La Crosse County's Type II Hazardous Materials Response Team. For Type I incidents, contact the La Crosse Regional Hazardous Materials Response Team through the Wisconsin Emergency Management Duty Office (1-800-943-0003).

CHEMTREC 800-424-9300

Georgia-Pacific 206-733-4410

Hydrite Chemical Company 608-784-0024

The Water Utility solicits annual quotations for chemical supply. Hydrite Chemical Company is the current (2014) supplier of chlorine and for the La Crosse Water Utility.

Hydrite Chemical Company

701 Sumner Street

La Crosse, WI 54603

Phone: 608-784-0024

Fax: 608-785-2990

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)
5. **VII. HAZARD ANALYSIS SUMMARY:**

The La Crosse Municipal Well #21H could have upwards of two employees at the facility during an event. The facility is located on Farwell Street near La Crosse Street, south of Myrick Park and on the University of Wisconsin – La Crosse campus and is within a few blocks from Municipal Wells #15 and 20. There are approximately 15,653 permanent residences within a 2.2-mile radius of this facility.

Four 150-lb. cylinders of Chlorine are stored in a separate exterior chlorine enclosure, which is along the South West corner of the well building. Two 150-lb. cylinders are connected to the water treatment system at a time.

An accidental release of chlorine could occur during changeover of tanks.

The vulnerability zone for this facility was based on a worst case scenario for a release of one 150 lb. of chlorine and was computed using CAMEO software. Parameters used in the analysis were:

EHS Chemical:	Chlorine
Form:	Gas
Container Size:	150-lbs.
Concentration:	100%
Level of Concern:	1/10 IDLH
Duration of Release:	10 minutes

WORST CASE SCENARIO:

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

RE-EVALUATION SCENARIO:

Rural or Urban:	Urban
Wind Speed:	11.9 mph
Atmos. Stability Class:	D
Vulnerability Zone:	0.1 miles

Approximately 39,000 residents would be affected if the worst case scenario were to occur. If the incident occurred during the UW-L school year, another 10-12,000 persons could be present in the vulnerability zone.

VIII. SPECIAL FACILITIES AFFECTED:

Numerous special facilities, such as government buildings, day care centers, and schools are located within the 2.2 mile vulnerability zone. These are listed in an attachment to this document. This list is identical to the lists for wells #15 and #20.

IX. POPULATION PROTECTION:

The on-scene commander will make the determination to shelter in place or to evacuate as appropriate. The lead-time for a hazardous materials incident may be very short. Therefore, 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 appear in the La Crosse County Emergency Operations Plan, Annex E.

X. SPECIAL CONSIDERATIONS:

This pumping station is near Emerson Elementary School and is located on the University of Wisconsin – La Crosse campus. Western Technical College and Viterbo University are also located within the 2.2 mile vulnerability zone, along with many public and private schools, preschools, and day care centers. Both of the large regional medical centers and the City and County government buildings are within this zone. Extraordinary efforts towards warning and evacuation for these facilities may be required if a chemical release should occur at Well #21H.

Myrick Park (includes Kids Coulee playground and the zoo) is located just north of this facility. Hundreds of persons could be present in the park, particularly during the summer months.

The La Crosse River marshland lies directly north of this facility and the Mississippi River lies approximately 1.5 miles due west. The Wisconsin Department of Natural Resources, U.S. Coast Guard and the U.S. Fish and Wildlife Services should be notified to assist in environmental and navigational problems.

Coast Guard Group UMR 319-524-7511

The local 24-hour National Weather Service, County Public Safety Communications (9-1-1 Dispatch Center), and local radio and TV stations could issue warnings to the population.

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.