



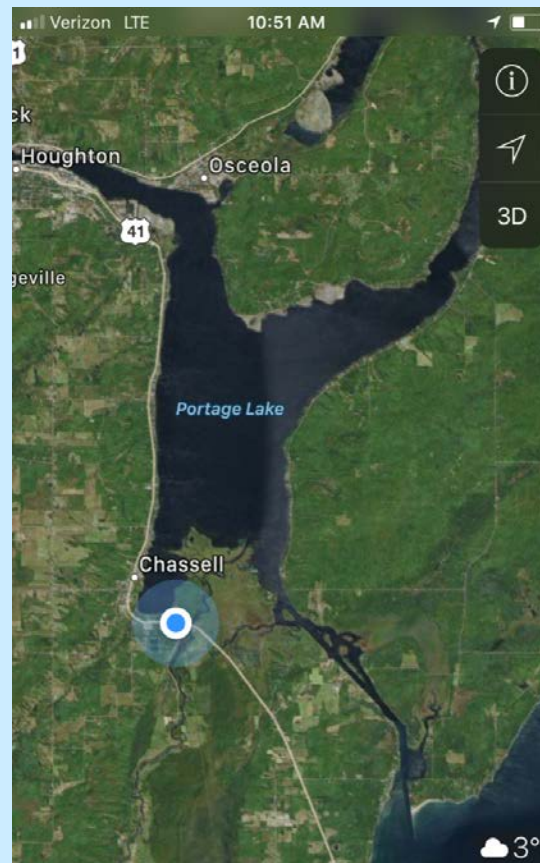
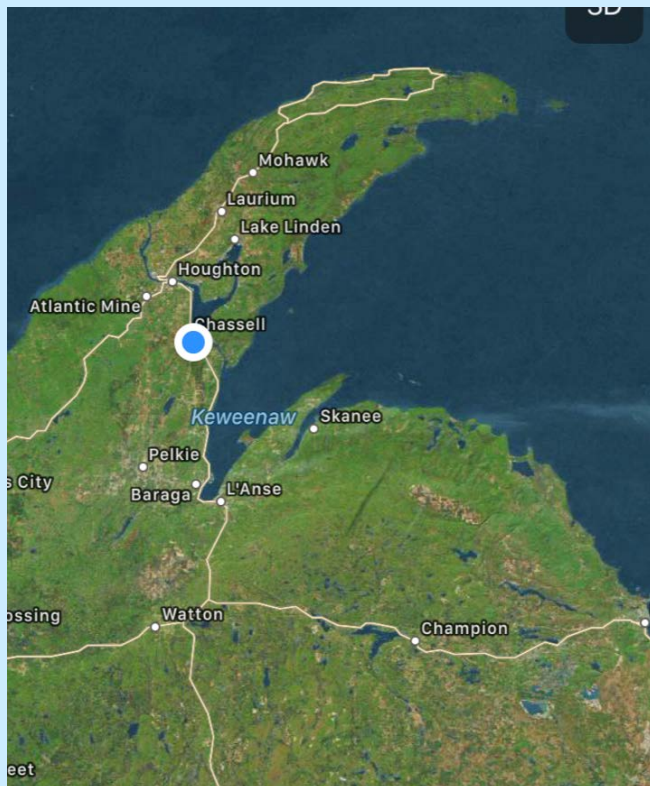
Sturgeon River/US-41 Gasoline Spill Response

February 3, 2018
Chassell, Houghton County, MI



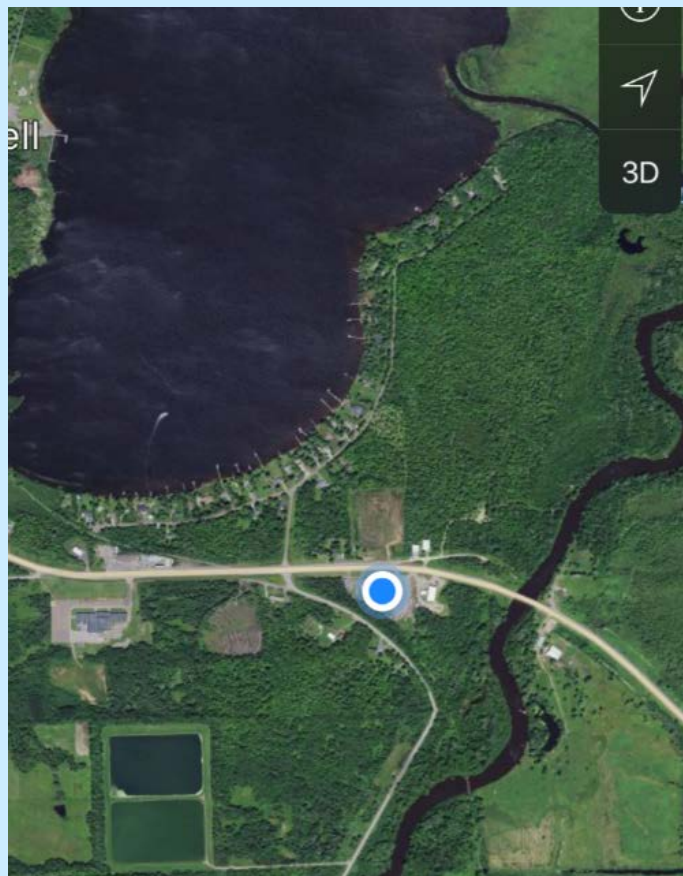


Spill Location





Immediate Community





Sturgeon River

- Traffic accident on US-41
- 4,000 gallons of gasoline and 1,500 gallons of diesel fuel
 - Roadway
 - Embankments
 - Surface of river
- River covered with ice and snow





Site Features



Drawn: ESN 2/5/2018
Approved: MAK 2/5/2018
Project #: 2018-024

Map Location



Legend

- Air Monitoring Location (TMCE)
- Approximate Tanker Crash Location
- Water Sample
- Air Sample Location
- Water Wells
- Overhead Power
- Underground Telephony; Underground Fiber Optic
- Excavation
- Soil Stockpile
- Spill Area
- Driveway
- Equipment Parking
- Site Parking



FIGURE 1
STURGEON RIVER US 41 GASOLINE SPILL
FEBRUARY 5, 2018
SHEET 1 OF 3




Response Organization

Incident Organization Chart (ICS 207)

1. Incident Name: Sturgeon River US-41 Gasoline Release		2. Operational Period: Date From: 02/12/2018 Time From: 0830		Date To: 02/12/2018 Time To: 1900	
3. Organization Chart					
<div style="text-align: center;"><div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Incident Commander(s) Ralph Dollhopf, US EPA Amy Keranen, MDEQ Rich Baron, Kenan Advantage Cathryn Beer, WUPHD Chris Van Arsdale, Houghton Cty EM</div><div style="display: flex; justify-content: space-around; margin-top: 10px;"><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Operations Section Chief Tom Anthos, Trimedia</div><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Liaison Officer Not Assigned</div><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Safety Officer Tom Anthos, Trimedia</div><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Public Information Officer Rich Baron, Kenan Advantage</div></div><div style="display: flex; justify-content: space-around; margin-top: 10px;"><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Planning Section Chief Dan Capone, START</div><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Logistics Section Chief Tom Anthos, Trimedia</div><div style="border: 1px solid black; padding: 5px; width: 25%; text-align: center;">Finance/Admin Section Chief Marlin Zechman, XL Catlin</div></div><div style="display: flex; justify-content: space-around; margin-top: 10px;"><div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;">River Assessment/Recovery Branch Director Mylan Koski, Trimedia</div><div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;">Bank Recovery Branch Director Mylan Koski, Trimedia</div><div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;">Air Monitoring/Sampling Branch Evan Birkett, START</div></div></div>					
ICS 207	IAP Page 9_	4. Prepared by: Name: Dan Capone Position/Title: Planning Sec Chief Signature: <i>[Signature]</i> Date/Time: 2-11-18 1620 hrs			

IAP



1. Incident Name: Sturgeon River US-41 Gasoline Spill	2. Operational Period: Starting: February 11, 2018, 0830 End: February 11, 2018, 1900	IAP Cover Sheet
3. Approved by Incident Commander(s): <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p><u><i>Ralph Dollhopf</i></u> Ralph Dollhopf, U.S. EPA</p> <p><u><i>Amy Keranen</i></u> Amy Keranen, Michigan Department of Environmental Quality</p> <p><u><i>Rich Baron</i></u> Rich Baron, Kenan Advantage Group</p> <p><u><i>Cathryn Beer</i></u> Cathryn Beer, WUPHD</p> <p><u><i>Chris Van Arsdale</i></u> Chris Van Arsdale, Houghton County EM</p> </div> <div style="width: 35%; text-align: right;"> <p>2/10/18 1635</p> </div> </div>		
<div style="text-align: center;"> <h2>Incident Action Plan</h2> <p>The items below are included in this Incident Action Plan:</p> <ul style="list-style-type: none"> • ICS 202 (Response Objectives) • ICS 203 (Organization Assignment List) • ICS 204 (Assignment List) • ICS 207 (Organization Chart) </div> <div style="text-align: center; margin: 20px 0;">  </div> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>7. Prepared by: Name: <u>Dan Capone</u> Position/Title: <u>Planning Section Chief</u> Signature: <u><i>Dan Capone</i></u></p> </div> <div style="text-align: right;"> <p>2-10-18 1630</p> </div> </div>		



Unified Command Objectives

- Protect public safety
- Protect worker safety
- Remove product spilled onto the land
- Recover product from the river ice
- Assess potential downriver impacts
- Reopen all lanes of US-41



Air Monitoring



Feb 5, 2018 at 11:30:10 AM
47.01142159 -88.51238211



Air Monitoring – START

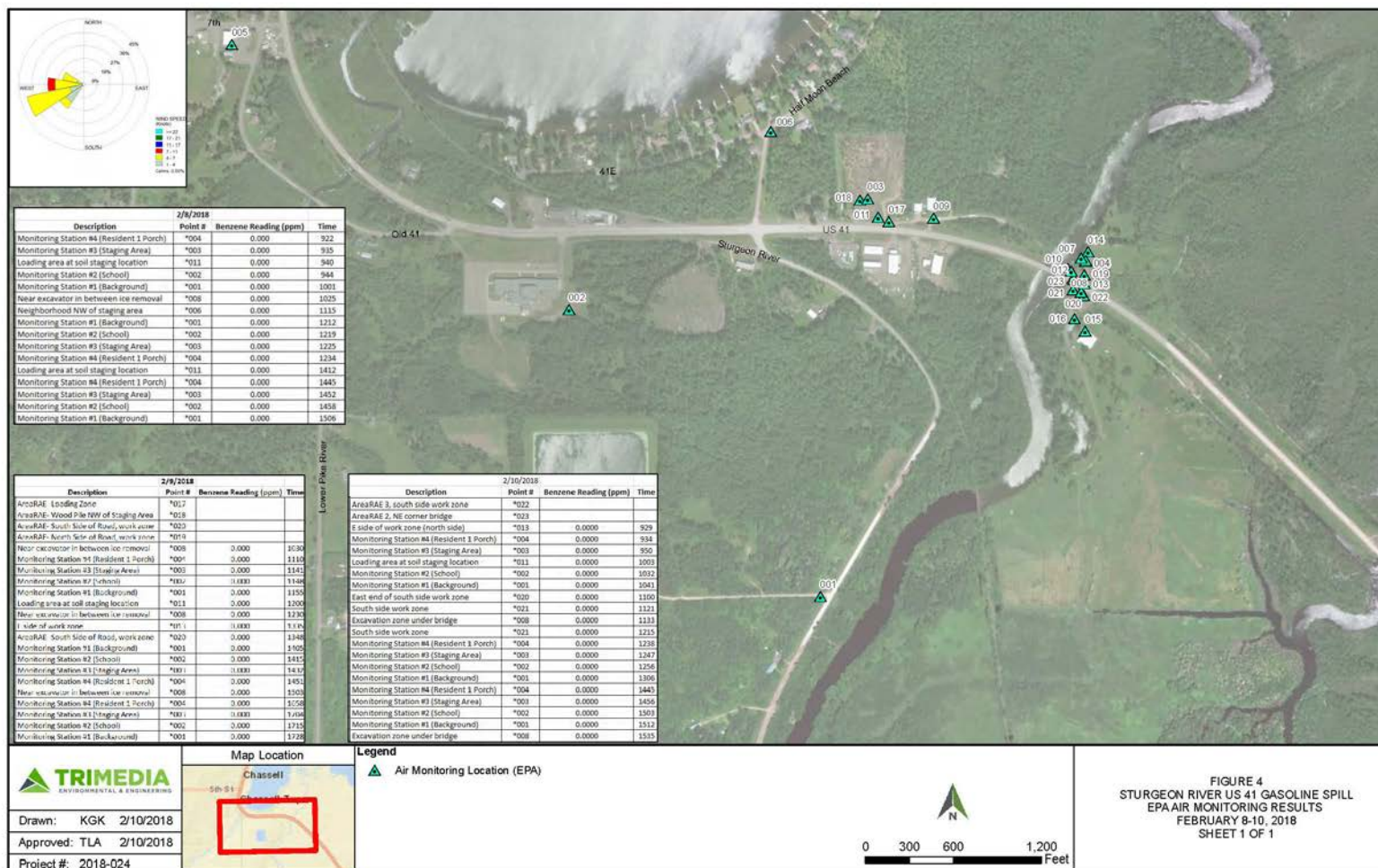


FIGURE 4
STURGEON RIVER US 41 GASOLINE SPILL
EPA AIR MONITORING RESULTS
FEBRUARY 8-10, 2018
SHEET 1 OF 1



Initial On-Land Recovery

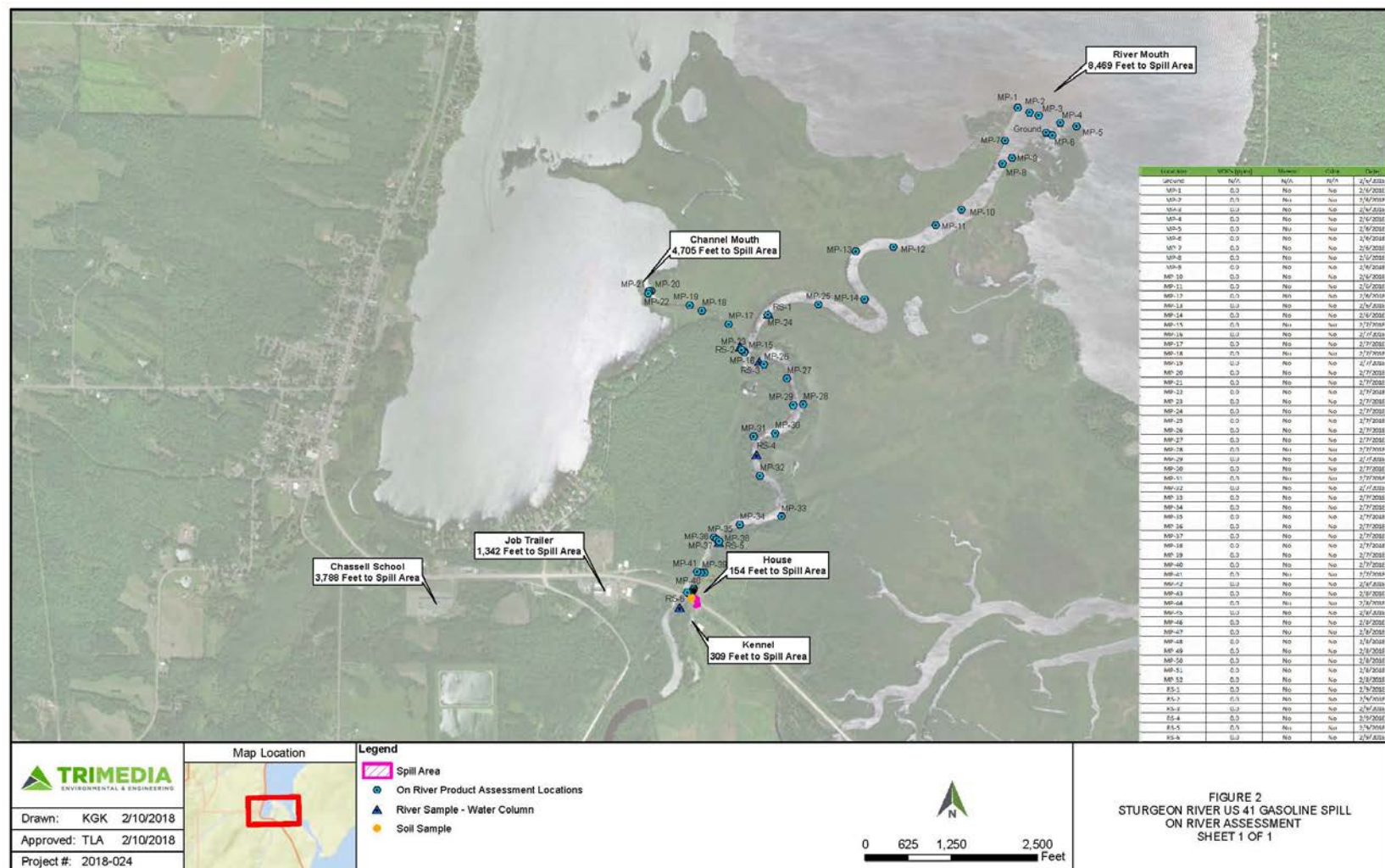




Product Recovery from Frozen River Surface



Under Ice Assessment





Assessment Team





Shoreline Cleanup and Assessment Techniques (SCAT)



- Visual
- Real-Time VOC Readings
- Laboratory Analysis



On-Bank Recovery-North Side





On-Bank Recovery-Under Bridge





On-Bank Recovery-South Side





Transportation and Disposal



- Media Removed
 - 6,200 tons of soil to landfill
 - 9,300 gallons of liquids

Guardrail Replacement





Containment Measures



- Long-Term Boom
- Recovery Well
- Sheet Piling
- Agitator System to Prevent Ice Buildup

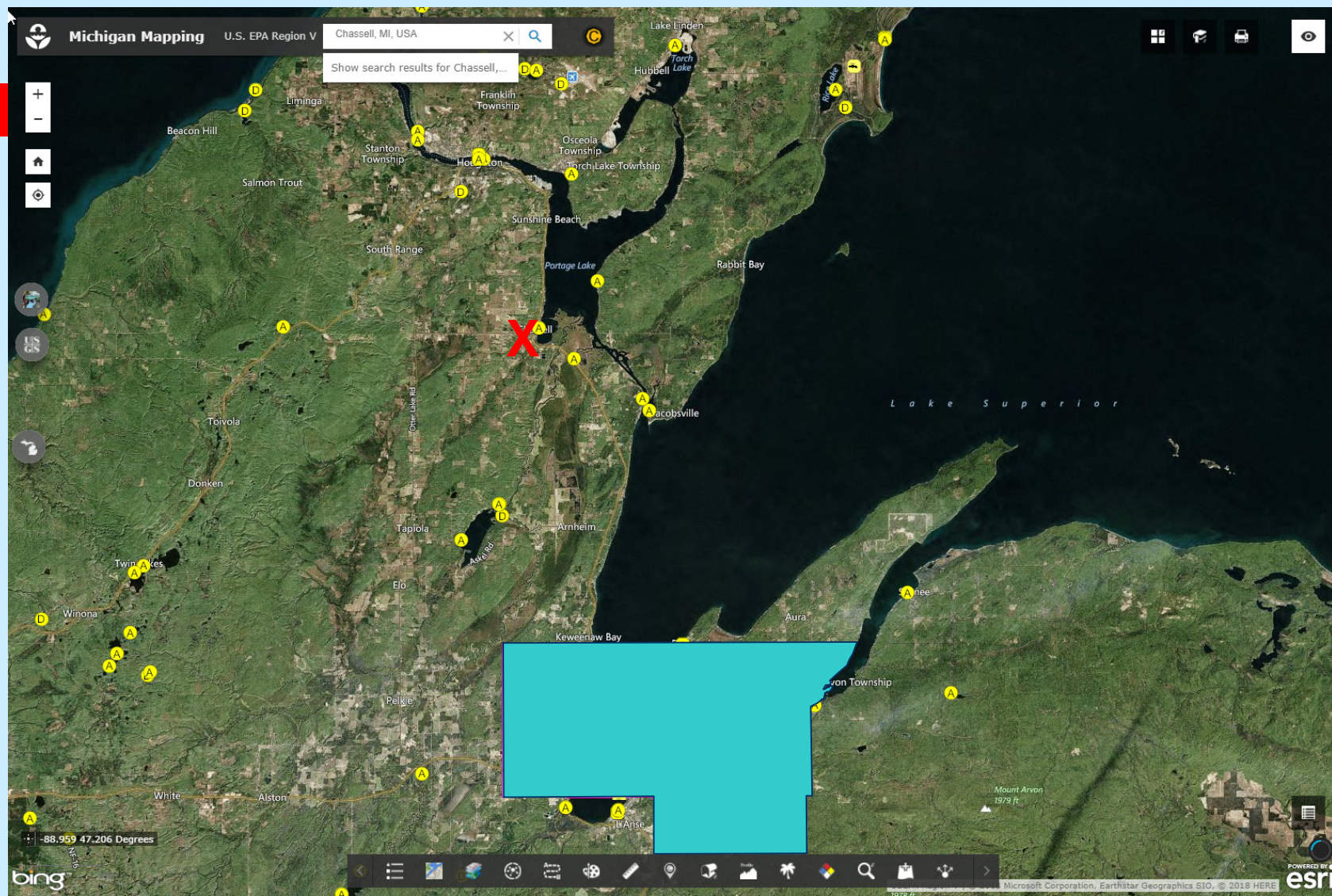


Restoration





Keweenaw Bay Indian Community





Public Information



Western Upper Peninsula
Health Department

Main Office | 540 Depot Street | Hancock, MI 49930 | 906.482.7382

303 Baraga Avenue | L'Anse, MI 49946 | 906.524.6142
210 N. Moore Street | Bessemer, MI 49911 | 906.667.0200
408 Copper Street | Ontonagon, MI 49953 | 906.884.4485

FOR IMMEDIATE RELEASE

To: Local Media
From: Western U.P. Health Department
Subject: Sturgeon River-U.S. 41 Gasoline Spill
Date: Feb. 6, 2018

Cleanup Continues at Sturgeon River Accident

Local, state, and federal officials and private contractors are coordinating cleanup and environmental monitoring at the Sturgeon River Bridge on US 41 south of Chassell, site of last Saturday's four-vehicle accident.

Cleanup crews are removing soil and snow impacted by the gasoline and diesel fuel release.

Air quality monitoring and sampling has been conducted under the direction of the U.S. Environmental Protection Agency for the immediate area and adjacent homes.

Air quality monitoring also is being done near stockpiled snow and soil to verify that there are no immediate health and safety concerns for the community and workers.

Arrangements are being made to transport impacted materials off site for disposal so that the area can be backfilled and guardrail replaced.

The health department also received the following statement from Michigan Department of Environmental Quality (DEQ):

"The DEQ has evaluated all municipal drinking water intakes in the vicinity and none are threatened by the release of petroleum products from the accident on US-41 near the Sturgeon River



Media Coverage

EPA assessing impact of Chassell gas spill on Sturgeon River



By Mariah Powell | Posted: Mon 4:19 PM, Feb 05, 2018 | Updated: Mon 10:12 PM, Feb 05, 2018

CHASSELL, Mich. (WLUC) - Multiple entities are still at work cleaning up a gas spill south of Chassell after Saturday's fatal crash. Crews are working to assess and clean up more than four thousand gallons of gasoline. The gas spilled during a fatal 4-vehicle accident at the bridge over the Sturgeon River on US-41 in Chassell. Gas leached onto the road, into the snow and soil along the banks of the river and possibly into the river itself.

"(Cleanup is) kind of a slow process and we think that is going to take us probably two to three more days before we get things all back to normal," said EPA on-site coordinator Ralph Dollhopf.

Multiple agencies worked together to remove several feet of contaminated snow and dirt from the site. There is concern gas leached into the river as well.

"As you know, the Sturgeon River is frozen it is covered in several feet of snow. We need to find a way to carefully get out there and figure out where the gasoline is and, if we find it, whether it is recoverable or not," said Dollhopf.

Finding and removing gas from the river could last into the spring thaw. Crews are monitoring immediate impacts on local air and water quality.

"We are coordinating closely with the DEQ and the local health agency to make sure that there is no potential for impact to drinking water supplies, whether private wells or public drinking water supplies. We don't think there is," said Dollhopf.

©

The Daily Mining Gazette

Fuel spill contained in Chassell Township



Garrett Neese/Daily Mining Gazette Crews remove contaminated soil from the site of a Feb. 3 fuel spill in Chassell Township Friday. Booms placed on the Sturgeon River were successful in preventing the spill from spreading beyond the immediate area of the crash, the Western Upper Peninsula Health Department said.

CHASSELL TOWNSHIP — Thanks to quick action, the fuel spill in Chassell Township was contained to the area near the Sturgeon River Bridge.