

**ATTACHMENT 17 – MICHIGAN DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENT
SITUATION REPORT**

Agency Situation Report

*Red Label: indicates a required field.

***Agency:**

MI Dept of Natural Resources & Environment

***Operational Readiness:**

 Green-Normal Operations

County:

Related Event/Incident/Activity:

[E - Calhoun County Oil Spill 7/26/10](#)

***Jurisdiction:**

Statewide

City:

State:

MI

Geographic Area: (Region, District, Campus, etc).

SITUATION SUMMARY

[08/04/2010 at 12:24 EDT Vicki Brown-MI Dept of Natural Resources & Environment](#)

Wildlife Division has 10 people that are working with teams today, and two of these are working with the Fisheries crew. There are 3 Wildlife personnel working on data and logistics today at the Rehab Center.

[08/04/2010 at 12:22 EDT Environmental Quality--State Emergency Operations Center-](#)

Sharon Schafer will be assigned as the Finance Chief for the ongoing Enbridge Oil Spill Incident. She will act as the single point of contact with outside agencies for all financial reporting and information related to this event. In her assignment Sharon has the authority to delegate financial tracking and report preparation as she deems necessary. Sharon will be providing further details.

[08/04/2010 at 12:19 EDT Environmental Quality--State Emergency Operations Center-](#)

I was advised by DELEG SEOC Rep Karen Towne the following:

* Work activities at all the sites (Division A thru E) are temporarily suspended due to thunder storm in Marshall, MI and environs. Unified Command is monitoring weather conditions.

* Enbridge Safety Officer, Mike Koby, had indicated earlier today that MDNRE and NTSB personnel will be entering the 15 foot excavation sometime today PM or tomorrow to inspect the damaged pipe. MIOSHA DRT advised Mr. Koby that a Permit Required Confined Space (PRCS) Entry procedure must be developed and implemented before and during entry; and that each entrant must be adequately trained on PRCS before entry. Enbridge is working on the procedure for the proposed entry. Continuous air monitoring will be performed by Enbridge before and during entry. PPE (fullface respirator, as well as impervious protective clothing, gloves, and boots).

I advised Chief Hagler and Capt. Mittner. I also contacted Det/ECO and advised.

[08/04/2010 at 12:12 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Dina Klemans, WRD called into the daily 11:00 a.m. public health meeting. The primary purpose of these meetings is to report on public health related data that is used in the evacuation decision tree.

They discuss air, ground water and surface water data. Dina reported on our water sampling locations and results to-date. Dian plans to attend this meeting in person tomorrow.

Today, at the request of Joe Lovato with the public water supply program, we are adding a sample location at the river crossing in Augusta. There is a public water supply well approximately 100 feet from the river. Sample parameters are the same as at other locations. We will continue to sample here through Friday too.

As of yesterday we decreased our sample locations to two: upstream of Morrow Lake at 35th Street and downstream of Morrow Lake at River Street. Should we get any hits indicative of spill migration we will reinstitute sampling at the sites further downstream.

Plans are in place to get our water data uploaded into EPA's database, SCRIBE. Will let everyone know when that is complete. EPA will provide us access to the database but we don't have information yet on how it works or how many can have access.

Today and tomorrow we will be working (again/still) to make contact with other agencies collecting water data to determine what their current and future plans are. Dina hopes to put together sort of a 'master plan' so that everyone can see the big picture....including us. Dina plans to spend some time

tomorrow at the command center in Marshall.

[08/04/2010 at 11:46 EDT Sherry Chandler-MI Dept of Natural Resources](#)

LED personnel assigned to incident @ scene today are Sgt. Troy Bahlau, CO Dan Bigger, CO Jason J Smith, and CO Rich Nichols. Assisting Wildlife-Rehab.

[08/04/2010 at 11:44 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Water Resources Division has 4 staff in the field today. 2 Biologists are collecting water samples and 2 district staff are on SCAT teams (Shoreline Clean-up Assessment Technique). Greg Danneffel and Kam Jordon are at the command center.

[08/04/2010 at 11:35 EDT Steven Scott-MI Dept of Natural Resources](#)

Fisheries Division has 14 staff deployed on site today. This includes 2 team leaders and 12 staff on the water in 7 boats.

[08/04/2010 at 11:32 EDT Steven Scott-MI Dept of Natural Resources](#)

Mary Dettloff indicates that no fishing is allowed, harvest or catch and release, from I-69 to west end of Morrow Lake. This is mostly to keep people out of the way of response efforts, and also due to the potential of contaminants.

[08/04/2010 at 11:09 EDT Environmental Quality--State Emergency Operations Center-](#)

Bob Avery advises the lab is spending time converting out Labworks data on these samples to an Equis format and sending to EPA. It is the best he can do until we get the new LIMS from the HS Grant

[08/04/2010 at 11:00 EDT Dave Malloch-MI Dept of Natural Resources](#)

Info recieved from General Staff meeting:

- If maps are needed, GIS has a request form.
- 2 reports of gun shots last night - police responded and nothing was located. Advised that night raccoon hunting for damage control is currently open.
- 4 safety incidents yesterday. Reminded that any safety incidents need to be reported to John Glover (Safety Officer) through our Dept designated safety officer (Glover's TX 312-)
- BC public meeting date has been set for Tuesday August 10 - no venue set

[08/04/2010 at 10:08 EDT Environmental Quality--State Emergency Operations Center-](#)

I requested info from EPA SEOC Rep Chris Christianson regarding access to the EPS Scribe database. I was able to speak with someone at one of the numbers who advised I needed to speak with EPA planning chief James Justis (JJ) 440- . I left a message for JJ to contact me or Mike Depa at the ECC. I also send MDNRE Lab Director Bob Avery an email requested any information regarding this subject.

[08/04/2010 at 09:19 EDT Daniel Hopkins-MI Dept of Natural Resources & Environment](#)

ECC Coordinator TX has been changed to 517- .

[08/04/2010 at 09:16 EDT Gary Hagler-MI Dept of Natural Resources](#)

Chief Hagler on site SEOC 0825hrs

[08/04/2010 at 09:09 EDT Daniel Hopkins-MI Dept of Natural Resources & Environment](#)

DNRE ECC is staffed today by the following Division Representatives: Kathy Shirey (RD 517- -), Tracy Kecskemeti (WRD 517-241-1902), Sherry Chandler (LED 517-), Don Johnson (FMD 517-), Doug Rich (REC 517-373-2251), Steve Scott (FD 517-), Mike Depa (AQD 517-), Vicki Brown (WLD 517-), ECC Coordinator Dan Hopkins (517-)

[08/04/2010 at 08:07 EDT Sherry Chandler-MI Dept of Natural Resources](#)

Sherry Chandler in service @ DNRE-ECC

[08/04/2010 at 07:30 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf in service at SEOC.

[08/03/2010 at 17:56 EDT Gary Hagler-MI Dept of Natural Resources](#)

Chief Hagler checking out of SEOC 1815hrs. Will return in AM on 8/4/10

[08/03/2010 at 17:38 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE SEOC is offline until 8:00am 3-4-2010.

[08/03/2010 at 16:10 EDT Environmental Quality--State Emergency Operations Center-](#)

Per information presented on the Kalamazoo County Health Department web site:

All surface water activities, including swimming, wading, fishing, and boating/canoeing/kayaking, should cease within the Kalamazoo River. Additionally, due to the fumes associated with a crude oil spill, people are warned to avoid time in the immediate area around the river. This order will remain in effect until further investigation indicates that risk has been minimized.

[08/03/2010 at 15:55 EDT Environmental Quality--State Emergency Operations Center-](#)

Jerry Tiernan in service @ SEOC

[08/03/2010 at 15:48 EDT Donald Johnson-MI Dept of Natural Resources & Environment](#)

WRD staff doing water sampling in relation to this incident, regardless of location, are considered part of the incident and should have an ICS 204 submitted.

Each sampling team should submit an ICS 214 Unit Log describing their activities at the end of their shift. WRD Staff in the ECC have been notified and will work with their personnel in the field.

[08/03/2010 at 15:43 EDT Environmental Quality--State Emergency Operations Center-](#)

Request from SEOC PIO asking if it is OK for the public to catch and release fish on Lake Marrow. Fisheries to follow-up with SEOC Desk.

[08/03/2010 at 15:32 EDT Vicki Brown-MI Dept of Natural Resources & Environment](#)

Additional Hazwoper training is being offered to Rehabilitators as well and DNRE staff that may require it.

The following sessions are being offered:

Wednesday, August 4

1:00 p.m. and 5:00 p.m. at the Rehab Center (14998 N Old US 27)

Thursday, August 5

Hampton Inn, at 7:00 a.m. and 5:00 p.m.

Seating is limited. If interested, contact Laura Neumier at F & W Services 262-

[08/03/2010 at 14:20 EDT Dave Malloch-MI Dept of Natural Resources](#)

Spoke with Cindy Salmon in the EOC IC office. She has been assigned to the EOC to offer administrative support to DNRE when needed.

[08/03/2010 at 13:24 EDT Christopher Conn-MI Dept of Natural Resources & Environment](#)

Additional WRD staff assignment:

Ken Leanin from the WRD, Kalamazoo District Office will attempt to perform a reconnaissance inspection of excavation and de-watering activities at the damaged section of pipeline. This inspection will occur either today or on 8-4-10 depending on site restrictions/accessibility limitations.

[08/03/2010 at 13:14 EDT Environmental Quality--State Emergency Operations Center-](#)

John Halsey, the state archaeologist with DNRE, is being consulted regarding some Native American burial sites on an island on Morrow Lake that they want protected. John is consulting with EPA.

[08/03/2010 at 12:41 EDT Donald Johnson-MI Dept of Natural Resources & Environment](#)

Field crews have been provided the ICS 214 form. They have been instructed that the Wildlife Branch Director will be providing additional directions and clarification for its use at the evening briefing this afternoon.

[08/03/2010 at 12:31 EDT Environmental Quality--State Emergency Operations Center-](#)

WRD requested a copy of the workplan for the dewatering and excavation at the site of the pipe to be removed. There is currently no EPA approved plan at this time that we know of. We will continue to monitor and advise of any proposals or approvals that come out of the EOC.

[08/03/2010 at 12:24 EDT Lee Stanard-MI Dept of Natural Resources & Environment](#)

per

Jaclyn Barcroft, ETEAM Administrator, advises that persons involved in the Calhoun County Spill Response use ETEAM server at Traverse City or Van Buren County. Those addresses are <https://www.tceteam.org> and <https://eteam.vbco.org>.

The purpose of using these two instead of various servers is to improve, and speed up, our communication capabilities

[08/03/2010 at 12:09 EDT Environmental Quality--State Emergency Operations Center-](#)

Per Enbridge, additive info follows:

Material name : Heavy crude oil/diluent mix (Christina Lake/Foster Creek)

Use: Process stream, fuels and lubricants production

WHMIS Classification: Class B, Div. 2, Class D, Div. 2, Sub-Div. A and B

NFPA: Fire: 2 Reactivity: 0 Health: 3

TDG Shipping Name: Petroleum Crude Oil

TDG Class: 3 UN: 1267

TDG Packing Group: II (boiling point 35 deg. C or above, and flash point less than 23 deg. C)

Manufacturer/Supplier: ENCANA CORPORATION

#1800, 855- 2ND Street S.W., P.O. Box 2850, Calgary, Alberta, T2P 2S5

Emergency Telephone: 403-

Chemical Family: Crude oil/condensate mix

[08/03/2010 at 12:04 EDT Environmental Quality--State Emergency Operations Center-](#)

I was contacted by MDNRE Sharon Maher requesting a contact for finance questions. I provided the following

Sherri Irwin

MSP EMSHD, Financial Section Manager

Office: 517-

Cell: 517-

email: i .gov

[08/03/2010 at 11:40 EDT Environmental Quality--State Emergency Operations Center-](#)

A request was presented to the EPA Fed Liaison in the SEOC regarding information on an `additive` that is utilized with the crude oil to make it flow through the pipeline more efficiently. The liaison advised I needed to check with Enbridge for that information. I requested the same of the SEOC Ops Chief who sent a request to EMSHD personnel in the EOC.

[08/03/2010 at 11:20 EDT Steve Sutton-MI Dept of Natural Resources](#)

Additional Fisheries & Wildlife recovery crew assignment information:

Tuesday August 3, 2010

Kalamazoo River Crew Assignments for DNRE

Team Leaders: Jim Dexter 269- and Sharon Hanshue 517-

Crew 1:

Leader: Ed Pearce (FD)

Crew members: Olen Gannon (FD)

R & R site: Division B, Division E

Access site: 15 Mile Road (Tu), Fort Custer Access Site upstream (Wed)

Crew 2:

Leader: Matt Smith (FD)

Crew members: Brian Gunderman (FD)

R & R site: Division C, Division D

Access site: Riverside Landscaping Access site (Tu), Linear Park (Wed)

Crew 3:

Leader: Mike Wilson (FD)

Crew members: Kregg Smith (FD), Mark McKay (WD)

R & R site: Division D and Division C

Access site: Linear Park (Tu), Riverside Landscaping (Wed):

Crew 4:

Leader: Cleo Harris (FD)

Crew members: Dennis Tar (FD), John Lerg (WD)

R & R site: Division E

Access site: Morrow Pond downstream (Tu), Morrow Pond upstream (Wed)

Crew 5:

Leader: Bob Kerry (FD)

Crew members: Eric Askam (FD), Mike Carney (Stratus Consulting)

R & R site: Division E

Access site: Morrow Pond upstream (Tu), Morrow Pond downstream (Wed)

[08/03/2010 at 11:10 EDT Dave Malloch-MI Dept of Natural Resources](#)

Received information in Command and General staff meeting that ICS 214 is not being filled out. Need to ensure that field staff complete this form on a daily basis. The form may be used to justify costs for reimbursement. Info TOT ECC.

Received request for MDNRE Rep dedicated to operations section at EOC for environmental impact and restoration planning. Request TOT ECC via conference call. Kameron Jordan assigned as rep effective 08/04/2010.

[08/03/2010 at 11:06 EDT Christopher Conn-MI Dept of Environmental Quality](#)

Water Resources Division has 4 staff in the field:

-Deb Snell & Gene Suoppi are continuing the Shoreline Cleanup Assessment Technique (SCAT) survey as part of two teams consisting of other staff from EPA and consultant Entrix. Sylvia Heaton and Michael Walterhouse are continuing water quality sampling efforts at two locations today including: 1) 35th street in Galesburg, upstream from Morrow Lake and 2) River Street in Comstock immediately downstream of Morrow Lake.

[08/03/2010 at 10:15 EDT Lee Stanard-MI Dept of Natural Resources & Environment](#)

Bill Ford (Andy Turner) and Tom Mittner have been advised of the new access numbers for the daily conference calls.

[08/03/2010 at 10:11 EDT Steve Sutton-MI Dept of Natural Resources](#)

Fisheries Division Update: Steve Sutton in the ECC - 517-

In the EOC: Jim Dexter, Sharon Hanshue – 517-

In the field: Brian Gunderman, Kregg Smith, Cleo Harris, Dennis Tar, Bob Kerry, Eric Askam, Tom Goniea, Matt Smith, Mike Wilson, Olen Gannon, Ed Pierce.

FD will have five vessels on the water today.

[08/03/2010 at 09:57 EDT Vicki Brown-MI Dept of Natural Resources & Environment](#)

Wildlife Division has 10 people reporting to the Wildlife Rehab Center in Marshall. We also have two people working in the Rehab office today as the Wildlife Liaisons.

[08/03/2010 at 09:54 EDT Lee Stanard-MI Dept of Natural Resources & Environment](#)

The 10am and 5pm conference call access number is: 1-877- . The code number starts and ends with a * That number is: *9 *

[08/03/2010 at 08:30 EDT Gary Hagler-MI Dept of Natural Resources](#)

Chief Hagler on site at SEOC

[08/03/2010 at 08:29 EDT Lee Stanard-MI Dept of Natural Resources & Environment](#)

DNRE ECC is being staffed today by: Lonnie C. Lee (ERMD 517-), Dennis Eagle (RD 517-2), Chris Conn (WRD 517-), Lee Stanard (LED 517-), Don Johnson (FMD 517-), Doug Rich (REC 517-), Steve Sutton (FSH 517- 1), Mike Depa (AQD 517-2), Vivki Brown (WLD 517-)

[08/03/2010 at 07:46 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf in service @ SEOC

[08/03/2010 at 07:03 EDT Environmental Quality--State Emergency Operations Center-](#)

Bill Ford left the pipe rupture site at 9:30 PM last night and arrived on scene this morning at 5:50 AM.

Met with John Pechin who is the Enbridge night supervisor for zone A (rupture site). He advised that the only activity that took place last night and currently in progress is a vac truck attempting to capture free product out of the excavation hole.

At 6:17 AM he submitted the following plan to Enbridge which after their approval, has to be approved by Unified command so this is a tentative timeline.

They anticipate from the time of approval, it will take 18 hours to dewater the area. Once that is

completed another 6 hours for excavation of the remainder of the pipe.

They have a time of 10:00 PM on Wednesday the 4th to begin cutting out the damaged section of pipe.

This is all subject to change and not official but will at least give you an idea of where they are at.

at 6:57 received call from Tom Zimmerman of Enbridge, he is one of their investigators to determine cause, and he is now my contact with Enbridge tx 780-

[08/02/2010 at 19:05 EDT Gary Hagler-MI Dept of Natural Resources](#)

Chief Hagler Leaving SEOC 1915 hrs will report in 0800hrs tomorrow

[08/02/2010 at 19:02 EDT Environmental Quality--State Emergency Operations Center-](#)

Gary Hagler & Jen Wolf leaving SEOC to return tomorrow AM

[08/02/2010 at 18:57 EDT Environmental Quality--State Emergency Operations Center-](#)

Update from Danneffel:

EPA POLREP - SITREP 7 attached looks good to me. Also today:

Greg Danneffel received an updated cell phone. The number is 517-

Increased sheen observed at upstream Morrow Lake boom. Intensively managing this area now.

A health and safety officer is needed for each agency involved. For MDNRE that will be Don Johnson.

Continuing to work on system for data management using a system named "Scribe".

Maps will be posted on web site soon.

Kam Jordan will act as MDNRE UC rep for Tuesday, August 2. His cell phone number is 269-

[08/02/2010 at 18:55 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE Field Observations Report

Observations from 8/2/2010

Conservation Officers on scene report a tremendous amount of oil in the Kalamazoo River downstream from the original spill location. COs report many oil covered geese and a few oil covered ducks. Even though oil covered, many of the geese are still quite mobile and are difficult to capture. Oil covered turtles are starting to show up and are also quite difficult to capture. COs are also starting to receive reports of oil covered amphibians.

Water Resource Division conducting water sampling downstream of Morrow Lake have not seen any oil sheen. They do however report that evidence of sheen can be observed on Morrow Lake.

WRD personnel also observed at least 5 series of booms place in an effort to contain the spill at the impoundment and upstream of the impoundment with one series of booms in place in an effort to protect

DNRE, WRD staff assigned to Shoreline Clean-up Assessment Teams (SCAT) assessed approximately 3 miles of the Kalamazoo River in Section C. (Section A is Talmidge Creek where the spill originated. Section B is the confluence of the creek into the Kalamazoo River. Section C is farther downstream). Two assessment teams, consisting of staff from the EPA, PRP consultant Entrix and DNRE, assessed approximately 3 miles of Section C. Deb was assigned to Team 1 and Gene was assigned to Team 2. The teams launched at M194 at River's Edge Landscaping at collection boom no. 5. The river is 80 to 100 % covered w/ a rainbow to silver sheen and the river surface contains 5 to 10% black oil globules. Overhanging vegetation is coated with oil to a height approximately 2 feet above current water surface. No dead fish were observed, several oil covered turtles were viewed and a blue heron and kingfisher were in good health and not oil covered.

[08/02/2010 at 16:00 EDT Environmental Quality--State Emergency Operations Center-](#)

A daily briefing of 2-3 paragraphs of the DNRE on site staff independent observations shall be provided to the DNRE SEOC Desk (mdeq@michigan.gov) cc'ing Gary Hagler and Mary Dettloff by 5p every day via the ECC Coordinator.

The SEOC DNRE Representative or DNRE EMC Gary Hagler shall copy the briefing into the DNRE SitRep and email it to the following addresses:

n.gov

michigan.gov
 C@michigan.gov
 michigan.gov
 ichigan.gov
 higan.gov
 michigan.gov
 higan.gov
 chigan.gov
 @michigan.gov

[08/02/2010 at 15:48 EDT Dave Malloch-MI Dept of Natural Resources](#)

Received a request from SEOC Jen Wolf asking for a briefing of our employee's independent observations in the field. Each division with staff on site in the field will gather info for their division and report it to the ECC coordinator. The ECC coordinator will then prepare/submit the brief to the following: MDEQ@michigan.gov with a cc: to Mary Dettloff and Chief Gary Hagler.

[08/02/2010 at 14:43 EDT Steve Sutton-MI Dept of Natural Resources](#)

Michigan Natural Features Inventory: Contact information for the MNFI is: Brian Klatt 517- cell phone or 517- office phone. Additional information regarding occurrence/locations within the affected area is being prepared.

[08/02/2010 at 14:31 EDT Steve Sutton-MI Dept of Natural Resources](#)

Fisheries Division Update: This morning a Fisheries Division crew collected fish from the Marshall Impoundment. The fish were collected as control for fish health samples and will be delivered on ice to MSU Aquatic Animal Health Laboratory this evening. The fish collected are: 44 white suckers; 60 common shiners; 60 golden redhorse suckers. Contact information for Ed Pierce, boat crew leader is 231-

The fish will be delivered today by Matt Fry 517-

[08/02/2010 at 14:20 EDT Dave Malloch-MI Dept of Natural Resources](#)

ECC Coordinator number is 517- and Air Quality number is 517-

[08/02/2010 at 14:20 EDT Dave Malloch-MI Dept of Natural Resources](#)

Phone work has been completed in the ECC.

[08/02/2010 at 14:09 EDT Steve Sutton-MI Dept of Natural Resources](#)

Today on site with Jay are 12 other FD staff, including:

Jim Dexter, Sharon Hanshue, Matt Fry, Tom Goniea, Matt Smith, Mike Wilson, Olen Gannon, Ed Pierce, Scott Hanshue (no additional information on the other three staff was given, but are from the Cadillac and Lake Erie offices)

One boom shocking boat was on the Marshall Impoundment from 9am-noon (Smith, Wilson, Gannon) Fish are being collected for the Faisal lab at MSU and will be delivered by Matt Fry and/or Tom Goniea on ice at 7pm tonight. Martha Wolgamood, Wolf Lake, has been notified by Lansing staff (Gary W.)

Most on-site FD staff will be trained in hazardous material handling today. No additional boat or staff deployment is anticipated today due to the training. Jay Wesley will attend the public meeting tonight. Minimal additional fish mortality has been reported.

FD equipment available today: five jon-boats and one boom shocking boat.

[08/02/2010 at 14:06 EDT Environmental Quality--State Emergency Operations Center-](#)

Mike Masterson spoke with CMS Energy today to get a status report of the Lake Allegan drawdown efforts as a result of our 7/30/2010 request. As of this morning, Lake Allegan is 1.3 feet below normal operating levels (615.0 elevation). As of 1330 hours they were at about 1.6 feet below normal operating levels. CMS anticipates being at the level requested by DNRE of 612.5 ft. by the late afternoon of Wednesday, August 4. The 612.5 ft. is 2 1/2 ft. below their normal operating level or 2 ft. below their minimum operating level of 614.5 ft..

Below is yesterday's CMS press release regarding the drawdown.

CONSUMERS ENERGY TO REDUCE SURFACE LEVEL OF LAKE ALLEGAN TO SUPPORT

OIL CLEANUP EFFORTS

Allegan, Mich, August 1, 2010 - Consumers Energy announced today it will alter Kalamazoo River flows through its Calkins Bridge (Consumers Energy's Lake Allegan) Dam to support contingency plans for cleanup efforts of an oil spill on the Kalamazoo River.

In response to a request by the Michigan Department of Natural Resources and Environment and Allegan County Emergency Management, water passage through Calkins Bridge Dam will be increased by approximately ten percent over a four-day period to draw down Lake Allegan by two feet by Wednesday, August 4. The surface level will decrease approximately six inches per day. Although oil is expected to be collected well upstream of the city of Allegan, as a contingency effort downstream the Lake Allegan surface level is being decreased to allow for potential dam flow reductions to better enable oil capture, if necessary, on Lake Allegan. Minimum water flows would be maintained downstream from Calkins Bridge Dam to avoid adverse impact to fisheries and aquatic life on the Kalamazoo River, in the event the contingency plan is implemented.

Lakefront property owners and recreational users of Lake Allegan are encouraged to consider how reduced lake levels could affect their activities, boat dockage conditions and safety.

The Calkins Bridge Dam was acquired by Consumers Energy in 1969 and produces more than 13 million kilowatt-hours of electricity a year, enough to meet the power needs of 1,550 residential customers.

Consumers Energy, the principal subsidiary of CMS Energy, provides natural gas and electricity to nearly 6.5 million of Michigan's 10 million residents in all 68 Lower Peninsula counties.

###

[08/02/2010 at 14:04 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Water Resources Division reports that a folder was created for our data & updates along with Embridge data. It is now on the S-Drive where everyone can get at it.

S:\Surface Water Quality Assessment\Kalamazoo River Oil Spill

ETeam attachments include the word documents (also on the S-Drive) for daily sampling results which we are updating as the results come back from the lab. We have more results from Friday so 7/30/10 has been updated. Lab sheets (pdf files) that they have thus far are also included.

[08/02/2010 at 13:58 EDT Andy Turner-MI Dept of Natural Resources](#)

Turner-EOC-Received Kalamazoo River water withdrawal information from WRD. Copy delivered to Unified Command as requested. Also attached.

[08/02/2010 at 13:40 EDT Dave Malloch-MI Dept of Natural Resources](#)

Updated DNRE staff on site: Water resources 4, Remediation Division 0, Parks 0, FMFM 0, Fisheries 13, Wildlife 8, Air Quality 0

[08/02/2010 at 13:18 EDT Dave Malloch-MI Dept of Natural Resources](#)

Updated DNRE staff on site is: Water Resources 2, Remediation Division 0, Parks 0, Fisheries 13, Wildlife 8, Air Quality 0

[08/02/2010 at 12:36 EDT Environmental Quality--State Emergency Operations Center-](#)

Enbridge Spill UIC Contact List Attached

[08/02/2010 at 12:35 EDT Dave Malloch-MI Dept of Natural Resources](#)

A new verizon cell phone has been secured for Det. Ford and will be delivered to him. His cell number will remain the same. The phone will be delivered at approx 1400 hours this date.

[08/02/2010 at 12:27 EDT Environmental Quality--State Emergency Operations Center-](#)

MDA is requesting assistance with determining the location of the Enbridge Water Samples that have been posted on our SitRep. I attempted contacting both Sylvia Heaton and Mike Walterhouse. Greg Danneffel will assist if these contacts will not be able to be made. The contact for MDA is John Buchweitz 517-

[08/02/2010 at 12:08 EDT Dave Malloch-MI Dept of Natural Resources](#)

Spoke w/Faith from DMB. She has submitted the paperwork to get the conference phone installed as well as a phone for Lt Hopkin's desk. It should be done today.

[08/02/2010 at 10:10 EDT Andy Turner-MI Dept of Natural Resources](#)

Turner-EOC-Received request from John Glover, Safety Officer, for MDNRE Health and Safety

designee. Responded at 11:10 hours with Don Johnson's contact info.

[08/02/2010 at 10:00 EDT Andrew Turner-MI Dept of Natural Resources](#)

Turner-EOC-Provided list of launch sites currently being used by Fisheries to Operations at EOC (via Dannaffel). Decontamination efforts will be established at these sites by Operations. Sites: 15 Mile Launch, Historic Bridge Launch, Riverside Landscape Launch, Linear Park.

[08/02/2010 at 10:00 EDT Dave Malloch-MI Dept of Natural Resources](#)

Onsite DNRE Wildlife employees is approximately 8

[08/02/2010 at 09:51 EDT Dave Malloch-MI Dept of Natural Resources](#)

Received a request from Jen Wolf for number of onsite DNRE employees. PRD 0, FMFM 0, Fisheries 13-15 w/5 boats, RD 0, LED 4

[08/02/2010 at 09:12 EDT Environmental Quality--State Emergency Operations Center-](#)

Allegan County has reported that wild geese covered in oil are showing up in Plainwell City near Sherwood Park. Wildlife Division please follow up with Allegan County EMC Scott Corbin 616-

[08/02/2010 at 08:55 EDT Environmental Quality--State Emergency Operations Center-](#)

Per NOAA SEOC Rep Rich Pollman, the requests for bathymetry and modeling info has been satisfied for EPA and NOAA. No further information is requested at this time.

[08/02/2010 at 08:48 EDT Environmental Quality--State Emergency Operations Center-](#)

I received an update from the ECC advising Bruce Menerey provided the hydrolic model to NOAA. Once they arrive I will check with the NOAA representative here in the SEOC to determine is this satisfies the EPA request for bathymetry.

[08/02/2010 at 08:41 EDT Donald Johnson-MI Dept of Natural Resources & Environment](#)

The ECC is staffed today by Carrie Monosmith (ERMD), Phil Schrantz (RD), Mario Fusco (WRD), Dave Malloch (LED), Don Johnson (FMD), Doug Rich (RecD), Steve Sutton (FSH D), Mike Depa (AQD), & Vicki Brown (WLD).

[08/02/2010 at 08:37 EDT Andy Turner-MI Dept of Natural Resources](#)

Turner-EOC-Received request, during Unified Command meeting for all existing known/permitted water withdrawal sites on Kalamazoo River from spill site to Lake Michigan. Request forwarded to ECC and being handled by Mario Fusco, MDNRE WRD.

[08/02/2010 at 07:50 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf in service @ SEOC

[08/01/2010 at 20:13 EDT Gary Hagler-MI Dept of Natural Resources](#)

Chief Hagler leaving SEOC 2020 hrs

[08/01/2010 at 19:56 EDT Gary Hagler-MI Dept of Natural Resources](#)

At 1915hrs. Chief Hagler Spoke to Steve Wouri Enbridge Executive Vice President over Liquids and Pipelines to ensure Det. Bill Ford would have access to excavation site as damaged pipeline is removed. It was explained to Mr. Wouri that photos and video documenting the removal were an absolute necessity and not an option. Mr. Wouri agreed that his person coordinating the operation on the ground would contact Det. Ford 2 hours in advance of the removal. Det. Ford's contact information was provided to Mr. Wuori. At Chief Hagler's request Mr. Wuori also agreed to his on site staff would contact Chief Hagler at the same time Det. Ford was contacted regarding the timing of the removal. Mr. Wuori's contact number is 403-

[08/01/2010 at 19:41 EDT Environmental Quality--State Emergency Operations Center-](#)

Mark DuCharme departing SEOC. Jen Wolf will report tomorrow morning.

[08/01/2010 at 18:46 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE personnel should check in with Incident Command (Walters Elementary School, 705 North Marshall Street, Marshall) prior to deployment. A copy of the incident health and safety plan should be requested and reviewed prior to work in affected areas. DNRE personnel should also attend pre-work safety briefings before work in affected areas or working with contaminated organisms. Any questions related to the health and safety plan should be directed to the USEPA Incident Safety Officer, Lynn Donnelly, for response.

All requests made to Enbridge or Federal Agencies need to be tracked and progress reported to DNRE SEOC daily.

[08/01/2010 at 18:12 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Prelim data for water samples collected at 4 locations downstream of Morrow Lake and 1 upstream sample location on 7/31/10 - all NONDETECT for volatile organics. Sample results in Attachments. Same locations as previously sampled - Comstock, Allegan, D Avenue, and 35th Street. Sampling will be repeated Monday 8/2/10. Continued sampling past Monday TBD.

[08/01/2010 at 16:56 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Staff from LED or any other division called upon to act as an assistant to the DNRE's Unified Command representative will be expected to complete the following tasks. The duties listed below are the minimum expectations; other tasks may be added as the situation progresses or changes.

1. Attend meetings with the Unified Command (UC) and Operations Group (3 per day beginning at 8:00 am). Assist the DNRE UC rep with documentation of DNRE resources being applied and requested, as well as other issues at the site.
2. Serve as direct liaison with the ECC on behalf of the DNRE UC rep. Participate in conference calls and communicate regularly with all divisions at the ECC on issues of concern. The goals are to assure the ECC is aware of issues at the site and that the DNRE UC rep is aware of issues that need to be addressed at the ICC or on site.
3. Communicate with the SEOC as needed to assure site conditions are accurately reflected in E Team. Help identify tasks and commitments by DNRE and their status so any deficiencies can be addressed at the site.
4. E Team can and should be used and updated as intended to assure information is shared between the SEOC, ECC, and ICC.
5. Assist the DNRE UC rep to resolve issues at the site as needed. An example of this one is the issue Lt. Lee Stanard dealt with today regarding a report of DNRE staff washing boats at a local car wash.

Someone serving in this role will be a great help to the DNRE UC rep as the time demands right now are beyond what one person will handle. They will also help assure consistency and continuity in our operations.

[08/01/2010 at 16:48 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

As summarized by Greg Danneffel:

Update for Saturday, July 31, 2010.

As of 8:00 am, 33,000 barrels of oil water mixture had been recovered. It is estimated that this mixture contains 7,000 barrels of oil. A significant quantity of oil remains at the area around the spill site, but is currently contained and being actively cleaned up.

Geese that are rehabilitated and released will be banded to allow identification. The early goose season is Sept. 1-15. Hunters will be asked to turn geese harvested with the numbered bands to be turned in to DNRE for testing.

Fish kills have been small so far, but could become more of an issue in the coming weeks if biological activity increases and the combination of this with lower river flows and higher temperature results in low dissolved oxygen levels. Also, the effect of the oil on insects and other food for fish could have an effect.

CMS, who operates the Consumers Dam at Lake Allegan is being drawn down as a possible contingency in the event of a catastrophic failure of the containment in place. The risk of this is very low and reduces as more oil is removed. The water level will be dropped 6 inches per day for 4 days, and will then be at the FERC minimum. This is in addition to containment boom placed by Kalamazoo County in two locations between Morrow Dam and the City of Kalamazoo.

Water quality monitoring is being conducted daily by Surface Water Assessment staff. Preliminary results downstream of the spill area look favorable. Data will be available and provided to USEPA for incorporation into the site data system. Hopefully this will soon be up and running. Surface water

monitoring data collected to date was provided to DNRE today and is being evaluated by staff. A request for staff support for 2 to 4 shoreline cleanup assessment teams was received and logged into E team through the ECC/SEOC. WRD staff have received this training. These activities will likely begin on Monday.

[08/01/2010 at 16:17 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

DNRE WRD staff Gene Suuppil (Saginaw Bay District) and Deb Snell (Jackson District) will be on-scene to assess shoreline conditions w/ EPA Mon-Wed this week. They are meeting at the command post Monday at 8am. EPA uses a formalized process for assessing shoreline conditions, called SCAT (Shoreline Clean-up Assessment Technique). Deb & Gene have both been through the SCAT training course. The basic idea is to send out multiple teams, using a standardized method, to evaluate the degree of contamination to allow the Unified Command to make decisions regarding clean-up priorities. Deb cell: 517- . Gene cell: 989- .

[08/01/2010 at 15:34 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Mike Alexander, WRD Aquatic Biologist, will attend a 6pm conf call re: Natural Resource Damage Assessment. Mike will be WRD's lead on NRDA.

[08/01/2010 at 15:21 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

DNRE-WRD Toxicologist, Amy Babcock, participated in a 1pm conference call re: irrigation restrictions. Summarized as follows: Representatives from MDA, MDCH, ATSDR, and the MSU Extension were on today's 1 PM call. The Calhoun County Health Department has issued a ban on the use of water from the Kalamazoo River for irrigation and watering of livestock. The ban is effective from Talmadge Creek west to the Calhoun County line; we are waiting on Kalamazoo County health officials to announce a similar ban from the county line to Morrow Lake. (The AG's office said there is no state authority for such a ban - it has to be county by county.) They will not have the ban go past Morrow Lake if our sampling data continue to come back non-detect. The detections from the Enbridge samples (exact sampling location(s) unclear from the spreadsheet they sent) are below R57 standards.

EPA is setting up a database to track all sampling data using a program I believe they call "SCROD". They requested that all data we have be sent to them via Brad Deacon at the EOC. John Buchweitz of MDA also asked to be informed of the sampling results. He's at 517- . Kory Groetsch from MDCH is compiling a list of all state and local bans and advisories for use in press releases.

There is a public meeting scheduled for tomorrow evening. Additional details should be in this afternoon's SEOC report. EPA will give summary presentations of the situation and hold breakout sessions regarding the evacuation and re-occupancy issues, private well sampling, bans and advisories, maps of air sampling results, etc. Jim Sygo has been in contact with Bob Sills of AQD and Kory asked that whoever else is planning on attending be available for a pre-meeting tomorrow afternoon to coordinate.

[08/01/2010 at 15:13 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE update from July 31, 2010. As of 0800 hours, 33,000 barrels of oil water mixture had been recovered. It is estimated that this mixture contains 7,000 barrels of oil. A significant quantity of oil remains at the area around the spill site, but is currently contained and being actively cleaned up. Geese that are rehabilitated and released will be banded to allow identification. The early goose season is Sept. 1-15. Hunters will be asked to turn geese harvested with the numbered bands to be turned in to DNRE for testing.

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and will then be at the FERC minimum. This is in addition to containment boom placed by Kalamazoo County in two locations between Morrow Dam and the City of Kalamazoo.

Water quality monitoring is being conducted daily by Surface Water Assessment staff. Preliminary results downstream of the spill area look favorable. Data will be available and provided to USEPA for incorporation into the site data system. Hopefully this will soon be up and running. Surface water monitoring data collected to date was provided to DNRE today and is being evaluated by staff.

A request for staff support for 2 to 4 shoreline cleanup assessment teams was received and logged into E team through the ECC/SEOC. WRD staff have received this training. These activities will likely begin on Monday.

[08/01/2010 at 15:12 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Fisheries will be collecting fish for caged fish experiments for Stratus Consulting and for control fish health samples from Marshall Impoundment (upstream of spill area) on 8/2. A Southern Lake Michigan Management Unit electrofishing boat and crew will be detailed to handle this need. Jay Wesley reports that approval to work in river reaches is given by Enbridge Division Chiefs and they have worked in Division C3 and downstream. There has been a reduction in air quality concerns and up to yesterday designated Enbridge safety officers or contractors have been accompanying DNRE Fisheries staff on the water with monitoring badges. This will not be the case on 8/2 and DNRE Fisheries staff have been trained in badge use. No detections of key toxics have been found except for some areas of high CO2 and staff immediately left those areas. Enbridge safety staff will not accompany DNRE Fisheries staff starting 8/2.

From a safety perspective, DNRE Fisheries staff have been advised to stay out of the oil and are using long handled nets to collect oiled turtles. These are emptied into collection boxes without any handling of the organisms. For PPE, staff are wearing Tyvex suits, gloves, and steel toed rubber boots. Where there are heavy equipment at launch ramps, all staff must wear hard hats and safety vests. Each day, staff must attend the morning briefing that emphasizes safety measures and must sign a form that indicates they attended. Team leaders are responsible for safety checks at the boat launch using USFWS recommendations and direction.

Since USFWS is not concerned about turtles, they are falling under MDNRE responsibilities and arrangements have been made with Binder Park Zoo for cleaning.

[08/01/2010 at 14:59 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Fisheries has been requested to provide an overview on the Fish and Wildlife briefings and the following was provided by Jay Wesley.

USFWS Briefings

Typical topics:

1. Situation - brief update of overall cleanup activities.
2. Safety
3. Updates from each group (rescue and recovery, NRDA, Rehab Center, Logistics, Public Information report for rehab center)
4. Field Ops (rescue and recovery) then break out to discuss specifics and tasks for the day).
5. Individual teams break out and have a safety briefing and discuss task for the day.
6. Equipment is checked and replaced
7. Teams go out on their tasks.

A team leader reports back at the evening meeting.

They are operating like a Fire Incident Command Center. If there is something lacking, it is a person from DNRE reporting information up and receiving information down. We are not using the other EOC's out there to do this.

An example of this morning's briefing is an attachment on the Situation Report site.

[08/01/2010 at 13:55 EDT Gary Hagler-MI Dept of Natural Resources](#)

Law Enforcement presence secured for public meeting to be held at Marshall High School on Monday (8/2/10) at 7 pm. MSP providing 4 officers, Local Police Department 4 officers, Calhoun Co 4 deputies, DNRE LED 2 COs

[08/01/2010 at 13:38 EDT Tom Mittner-MI Dept of Natural Resources & Environment](#)

Message from EOC Lee Stanard. We are requested to complete ICS 204 form daily and submit by 14:00 to Sheila Calovich; epa.gov; for all personnel who will be deployed on or near the river.

[08/01/2010 at 11:48 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ERMD reports that they have available 2 air monitors (PIDs) that could be deployed at the Wildlife Rehab Center to evaluate chemical levels.

[08/01/2010 at 11:08 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

DNRE WRD staff Amy Babcock will participate in the 1pm conf call w/ MDCH & MDA re: irrigation restrictions.

[08/01/2010 at 10:44 EDT Gary Hagler-MI Dept of Natural Resources](#)

NTSB Investigator Larry Bowling inquiring as to obtaining info on the states efforts to date. Information passed on to Capt. Sands MSP for coordination and information release.

[08/01/2010 at 10:41 EDT Environmental Quality--State Emergency Operations Center-](#)

Voice mail is currently inoperable. Update will be provided when status changes.

[08/01/2010 at 10:03 EDT Jennifer Wolf-MI Dept of Natural Resources & Environment](#)

ENBRIDGE SOURCE RELEASE AREA REMEDIATION PLAN rev2
ENBRIDGE SOURCE RELEASE QAPP31 Rev2
ENBRIDGE Oil Recovery and Containment Plan Rev2.

Have been added to the Event attachments. Scroll down to Event under the Calhoun County Oil Spill below all Agency SitReps and Duty Logs....

[08/01/2010 at 09:54 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Fisheries reports that oiled turtles will be a key issue in the coming week. While Fisheries staff has been collecting about 10-12 oiled turtles per surveyed reach using nets but many more are oiled and need to be rehab, likely 100-200 per reach. Arrangements have been made with the Binder Park Zoo for rehab and traps which will be available on Wednesday.

On Monday, Fisheries Division will have 2-3 Southern Lake Michigan Management Unit boats and crew to assist with Stratus Consulting water sample collection and fisheries recon, a boat and crew from the Lake Erie Management Unit to conduct fisheries surveillance, a boat and crew from the Central Lake Michigan Management Unit to conduct fisheries surveillance, two ground crews to handle public inquires and access point recon, and one person to assist with rehab center coordination. On Wednesday, two additional boats with 1 crew each will be deployed to assist Binder Zoo staff in setting turtle traps.

One key request that is in progress of being resolved is to have decontamination sites set up at each boat launch. Staff is having significant problems cleaning boats (1-2 hours for each needed at this time) at this time. This resource will become critical with a much larger Fisheries Division presence this weeki.

[08/01/2010 at 09:54 EDT Tom Mittner-MI Dept of Natural Resources & Environment](#)

There is still confusion at the Wildlife Rehab Ctr regarding what MIOSHA requirements are in force for their activities.

[08/01/2010 at 09:52 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ECC is also staffed by Dan Hopkins (LED - 517-).

[08/01/2010 at 09:38 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE ECC is evaluating the request from EOC to provide 2-4 DNRE personnel with SCAT training.

[08/01/2010 at 09:23 EDT Environmental Quality--State Emergency Operations Center-](#)

No DNRE activity since ECC signed out at 1800 hrs on 07/31/10. Wildlife Division will continue to work with wildlife rehabilitation off of US-127 between the EOC and EOS. Water Resources has two person crew working south of Morrow Lake to collect water samples. Fisheries will not have any staff or equipment on scene today, but will have several boats and personnel on scene 08/02/10. Law Division has two officers on scene today to assist with animal collection. All collected animals are being brought to wildlife rehabilitation.

[08/01/2010 at 09:22 EDT Environmental Quality--State Emergency Operations Center-](#)

Tracy from Water Resources was able to provide requested bathymetry information.

[08/01/2010 at 08:58 EDT Environmental Quality--State Emergency Operations Center-](#)

Tracy from DNRE Water Resources was able to provide bathymetry data.

[08/01/2010 at 08:49 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Water sample results collected by Enbridge have been received from EPA. See attached. Samples were collected from private water wells and surface water. Data will be reviewed by WRD staff.

[08/01/2010 at 08:33 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ECC is staffed by Robert Sills (Air - 517-), Vicki Brown (Wildlife - 517-), Tom Mittner (LED - 616-), Gary Whelan (Fisheries - 517-), Doug Rich (Recreation - 517-), Don Johnson (FMFM - 517-), Liz Browne (ERMD - 517-), Tracy Kecskemeti (Water Resources - 517-) and Jerry Tiernan (Remediation - 517-).

[08/01/2010 at 08:29 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Results from water chemistry data from samples collected by DNRE WRD staff 7/30/10 attached, along with a description of sample sites. All parameters analyzed were NON-DETECT at 4 locations downstream of Morrow lake and 1 upstream location. Additional data will be available later today for remaining parameters.

[08/01/2010 at 08:11 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ECC is open, functioning and occupied.

[07/31/2010 at 18:13 EDT Environmental Quality--State Emergency Operations Center-](#)

Prior to leaving I sent DTMB Jeanette Doll a request for the ECC Needs

[07/31/2010 at 18:11 EDT Tom Mittner-MI Dept of Natural Resources & Environment](#)

DNRE-ECC Closed, will reopen at 08:00 8/1/2010.

[07/31/2010 at 18:10 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf departing from SEOC. Mark Ducharme will be reporting tomorrow morning.

[07/31/2010 at 17:59 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Per G. Danneffel, EPA is requesting 2-4 DNRE staff that have SCAT (Shoreline Clean-up Assessment Technique) training to join teams to start assessments on Monday. Kecskemeti will follow-up.

[07/31/2010 at 17:47 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

In response to the NOAA request - Bruce Menerey has followed-up with Mike DeWeese at NOAA and has provided a hydrologic model of the Kalamazoo River (Hec-Ras model).

[07/31/2010 at 17:38 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

Mario Fuscoe & Bruce Menerey of WRD have been contacted and will coordinate to respond to the request for bathymetry data downstream of Comstock. Information expected in the morning.

[07/31/2010 at 16:54 EDT Environmental Quality--State Emergency Operations Center-](#)

Oiled Wildlife Recovery Document Attached

[07/31/2010 at 16:28 EDT Environmental Quality--State Emergency Operations Center-](#)

I provided NOAA, Rich with contact information for the ECC and advised further modeling data would not be available until Monday.

[07/31/2010 at 16:25 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Fisheries Division reports that all staff are off the river. Staff went 3 miles downstream of the Historic Bridge Access (near I-94 bridge) and found 1 dead sand shiner. An additional 12 oiled turtles were retrieved for rehab and 1 dead muskrat collected. These animals are being delivered to the rehab center. Dissolved oxygen concentrations were measured and remain about 7 mg/l (90% saturation). Banks were observed to be heavily oiled.

Checked on available bathymetric data on the Kalamazoo River and detailed data are not available. Some cross-section data is likely available from USGS from river gauge calibration and from misc measurements.

[07/31/2010 at 16:13 EDT Frank Ballo-MI Dept of Natural Resources & Environment](#)

Frank Ballo with Remediation Division has requested RD Superfund staff respond with whether modeling and bathymetric information is available for the Kalamazoo River Superfund Site.

Awaiting returned calls, but main contact person may not be available before Monday, Aug 2.

[07/31/2010 at 16:10 EDT Environmental Quality--State Emergency Operations Center-](#)

I participated in a telephone call with EMHSD Ralph Hobrat and USF&W Lisa Williams. The U.S. Fish and Wildlife Service (Service), as the Federal Lead Administrative Trustee for Natural Resource Damage Assessment (NRDA) for the Enbridge Pipeline Release is requesting the MDNRE's assistance with the NRDA by allowing Stratus Consulting to pursue ephemeral data collection, protocol development, and technical assistance under an existing state contract until the Service can get an incident-specific contract in place with Stratus Consulting, Inc. of Boulder, Colorado. Discussions have already been engaged between US F&W and the DNRE executive staff. This log if for record of this request. No action is needed.

[07/31/2010 at 15:41 EDT Donald Johnson-MI Dept of Natural Resources & Environment](#)

There are DTMB IT staff at the EOC who can meet US Fish & Wildlife Service IT needs. USFWS should contact DTMB staff at the EOC directly if they have additional IT needs.

[07/31/2010 at 15:33 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

ECC is working on bathymetry data. Possible sources in WRD Hydro Studies unit and RD Superfund.

[07/31/2010 at 15:12 EDT Environmental Quality--State Emergency Operations Center-](#)

The NWS is requesting from DNRE a schematic of the river with bathymetry and a good map showing the course of the river.

[07/31/2010 at 15:05 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ECC reports that D/Sgt. Bill Ford made contact with Westin Environmental. They provided Bill a full face mask and he was fit tested and ready to go. Bill called Jeff Lippert (EPA) who is at the scene of the pipe rupture. He is going to call him back when he gets out of his mask so we can discuss my access to the site. Tom Mittner notified Lt. Wimbley (MSP) that he did not need Tpr Fuller to come in to fit test him. At this time in holding pattern at the EOC until EPA calls him back.

[07/31/2010 at 15:02 EDT Environmental Quality--State Emergency Operations Center-](#)

ECO Bill Ford has obtained PPE and has been fit tested. He is awaiting discussions with on scene EPA personnel who are at the pipe locations to receive access info.

[07/31/2010 at 14:58 EDT Environmental Quality--State Emergency Operations Center-](#)

In support of the oil spill in MI. The NWS is trying to get a few key technical people together to discuss river modeling of the spill. Noreen Schwein left a message on Bruce Menerey's cell. If you are not able to make the call but would like to contact us, please call Mike DeWeese at the river forecast center at 952

Call info:

CALL NUMBER: 866-

PASSCODE: #

[07/31/2010 at 14:36 EDT Tracy Kecskemeti-MI Dept of Natural Resources & Environment](#)

WRD staff Tracy Kecskemeti made contact with EPA staff Margaret Jones and Brian Schlieger re: water sampling data. EPA has a spreadsheet that summarizes sampling of private wells (conducted by the County) and surface water sampling conducted by Superior Environmental on behalf of Enbridge. The file is rather large and may not be able to go through email. File will be provided to Greg Danneffel at the EOC and Schlieger will try to send to Kecskemeti by email. EPA also has the vessel Mudpuppy on Morrow Lake today collecting surface water, water column and sediment samples. There is a 48 hour turn around on those samples. This sampling will be continued for the next four days. EPA will also begin splitting samples with Enbridge tomorrow.

[07/31/2010 at 14:25 EDT Environmental Quality--State Emergency Operations Center-](#)

[07/31/2010 at 14:05 EDT Donald Johnson-MI Dept of Natural Resources & Environment](#)

Jim Rockowski of DTMB reports that a person from the US Fish & Wildlife Service has made contact with the EPA GIS staff, and they will be able to meet USFWS's GIS data needs.

[07/31/2010 at 13:56 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE ECC reports that Bill Ford has obtained permission from the EPA On Scene Commander Ralph to photograph the pipe. However, currently the excavation has collapsed and area of the pipe of interest is not visible. Bill now needs to be certified with a full face respirator, and requires MSP assistance in getting proper equipment and fit testing.

[07/31/2010 at 13:51 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE Wildlife reports that the media hotline number is 888-_____ and the public inquiry number is 800-_____

[07/31/2010 at 13:42 EDT Environmental Quality--State Emergency Operations Center-](#)

ECO Sgt. Bill Ford is to make contact with F/Lt Erik Wimbley (sp?) to obtain a full face mask from the Battle Creek Post. He may be able to obtain the equipment from Westin on scene and will advise when the PPE is obtained.

[07/31/2010 at 13:37 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

To complete the record DNRE LED wants to add to the record that on 07/30, three conservation officers were working the affected area. CO Kyle Bader and CO Jeff Goss were assisting with wildlife recovery, and helping other agencies get acclimated to the area (USFWS). They were split into two teams. CO Brian Fish acted as a roaming team member, but was assisting with other duties as needed. (CO Fish was assisting with evidence collection, being interviewed, checking the 9-11 tapes, etc.

[07/31/2010 at 13:30 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

In the DNRE ECC, Air Quality Division has replaced Mary Lee Hultin with Mike Depa (517-_____ at 1230.

[07/31/2010 at 13:29 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

DNRE LED reports that COs Kyle Bader and Jeff Goss are in the affected area and have been since approximately 0800 hours. They are split up into two teams, consisting of members from DNRE-LED, DNRE-Wildlife, and USFWS. The COs are there to respond to high profile wildlife complaints, and are acting as guides and assisting with affected wildlife recovery.

[07/31/2010 at 13:20 EDT Environmental Quality--State Emergency Operations Center-](#)

DTMB Jeanette Doll is contacting Operations to turn on the air in the ECC.

[07/31/2010 at 13:18 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

USEPA and Enbridge have requested all DNRE Fisheries data collected to date by 4 PM in a discussion with Jay Wesley. Jay Wesley consulted with the Acting Fisheries Division Chief (Gary Whelan) and since all data collected to date is public information, it is acceptable to share this information. DNRE Fisheries Division will accommodate this request and has requested a similar data exchange with USEPA and Enbridge by 4 PM.

[07/31/2010 at 13:17 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

Rock Rakowski, MTMB, is bringing EPA and F&W together on GIS equipment. He contacted Mike Mejac EPA GIS staff person (414-_____) in Walters Elementary and have given him Lisa Williams (F&W) contact info and Don Johnson's (DNRE Forest Management Division) contact info in order to directly communicate their needs. He indicated to give him an hour to do this. Tom Mittner will call him at 1:30 pm to confirm that this happened.

[07/31/2010 at 13:06 EDT Tracy Kecskemeti-MI Dept of Environmental Quality](#)

WRD reports that PRELIMINARY analytical data for water chemistry samples collected Friday 7/30/10 at 4 points downstream of Morrow Lake were non-detect for BTEX. Final results should be available this afternoon. Sample sites were: Comstock, Allegan, D Avenue, and 35th Street. Same locations are being sampled by WRD staff today. DNRE has requested all water chemistry data collected by Enbridge, EPA or USF&W along with any sampling plans.

WRD (G. Danneffel) received a complaint from a Calhoun County Commissioner that oiled geese are flying into St. Mary's Lake and contaminating the lake. St. Mary's Lake is not connected to the Kalamazoo River. The complaint was passed on to Valdo Calvert, USF&W.

WRD reports that Lake Allegan is being drawn down at a rate of 6inches/day by Consumers Energy.

WRD reports that as of this morning's report, 33,000 barrels of oil/water, 7,000 gallons oil have been recovered.

[07/31/2010 at 12:49 EDT Environmental Quality--State Emergency Operations Center-](#)

Required Safety Gear - Hot Zone - As Defined by OSHA:

The workers working in the Hot Zone at Ground Zero in Division A site (where they are excavating around the pipe) are required to wear, and were wearing Tyvek suits, elbow-length rubber gloves, knee-length rubber boots, and full face respirators with combined organic vapor/acid mist cartridges. The established Hot Zone earlier in the day on July 30, 2010 was within 100 feet diameter from the damaged pipe. Per Cheryl Urie, OSHA Senior Safety Coordinator and Michael Eigner, Senior Health & Safety Coordinator, they changed the fullface respirator required zone to within 50 feet diameter from the damaged pipe in the late evening of July 30, 2010 based on their relatively low benzene sampling readings outside the 50 feet perimeter.

Anyone within the 100 feet perimeter, but outside the 50 feet perimeter was required to wear a half mask respirator with the same cartridges.

Gerry O. Dike, BSChEngg, MBA

MIOSHA Statewide Disaster Response Administrator/IH Specialist

Michigan Dept of Energy, Labor & Economic Growth

Michigan Occupational Safety & Health Administration (MIOSHA)

General Industry Safety and Health Division

(517)

[07/31/2010 at 12:30 EDT Environmental Quality--State Emergency Operations Center-](#)

The EPA GIS contact is Mike Mejac 414- . He was given Don Johnson's tx and asked to give him an hour to make contact.

[07/31/2010 at 11:44 EDT Gary Whelan-MI Dept of Natural Resources & Environment](#)

MDNRE Fisheries expects to deploy 4-5 boats with two person crews and 2-3 1 person ground teams to do fisheries, amphibian and reptile surveillance on Monday over all spill areas open to work. In addition to the 2 to 3 Southern Lake Michigan Management Unit boats and crews, Fisheries Division expects to deploy 1 boat and 2 person crew from the Central Lake Michigan Management Unit (Cadillac) and 1 boat and 2 person crew from the Lake Erie Management Unit (Southfield). Additionally, two ground crews will be deployed from Lansing.

[07/31/2010 at 11:11 EDT Environmental Quality--State Emergency Operations Center-](#)

ETeam update: Everyone please update your Profile in ETeam. Changes have been made to our account and in order for the system to populate the menus completely you will need to reselect your Organization, Position and Agency.

[07/31/2010 at 09:35 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE Fisheries Reports that 1 boat with Ed Pierce and Mike Wilson will be conducting fisheries, amphibian, and reptile surveillance from the Historic Bridge launch site (near I-94 crossing) downstream 3 miles. Jay Wesley will be conducting ground surveillance at all available road crossings and access points. Jay Wesley noted that the check-in line was not picked up and the RAP line was constantly busy.

[07/31/2010 at 09:16 EDT Environmental Quality--State Emergency Operations Center-](#)

Attached is a cost time sheet provided by MSP EMHSD Budget Liaison. We need to develop a protocol to ensure all DNRE involved in this incident and tracked and reported appropriately.

[07/31/2010 at 09:14 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE Wildlife reports the following:

Friday, July 30th - Telephone contact was made with John Lerg, Wildlife Habitat Biologist, at approximately 8:15 AM. John is Wildlife Divisions "on-site" staff and has been involved with wildlife activities since Monday July 26. John relayed to Mike Bailey information on Wildlife Division participation on this event. To date Wildlife Division staff involved in this incident has included: John Lerg (on-site and has Haz-met training), Sara Schaefer (Southwest Management Unit Supervisor- telephone contacts with public, Lerg and Division Lansing staff), Cindy McQueer

Mitch Adelman is leaving SEOC. Jen Wolf will be staffing tomorrow from 8-5. My cell # is 517- in the event I need to be reached in the meantime.

[07/30/2010 at 18:21 EDT Environmental Quality--State Emergency Operations Center-](#)

Mitch Adelman is leaving SEOC. Jen Wolf will be staffing tomorrow from 8-5. My cell # is 517- in the event I need to be reached in the meantime.

[07/30/2010 at 17:58 EDT Environmental Quality--State Emergency Operations Center-](#)

Fyi, EPA staff at the site (initial call from Chet Weyland's group at EPA headquarters, then follow up call from James Justice, on site) are requesting DNRE lab to analyze canister and tedlar bag air samples. They would have contractors take the samples and transport to the DNRE lab. Craig Fitzner has been in contact with Carol Smith at the lab about this. Will probably happen first of next week after they get a better handle on how many there will be. This will give them faster response to identify any further need to evacuate based on benzene impacts.

Craig will get back in touch with Carol to identify more of the specifics of EPA's needs, then Carol will talk directly to James about what the lab is able to do. Keeping AQD involved at that point will not be necessary.

[07/30/2010 at 15:49 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE - Update from 7/29/2010 AM briefing attended by Greg Danneffel and Mary Douglas.

Air Monitoring Results at the initial spill site remain elevated and are now exceeding the long term exposure limits. 20 homes near the spill site are being notified to voluntarily evacuate. Notification is being provided by the Calhoun County Health Department.

Groundwater sampling of wells should be starting. There are sampling issues related to the high levels of VOC in the air. A water use advisory has been issued from the spill site to the Calhoun County line 200 feet from the river.

A 211 information line has been set up by Calhoun County emergency management to allieve the volume of calls coming in to the Enbridge 800 number. Calhoun County has also established a contact website www.handsonbc.com.

The leak source has not accessed yet, so location and cause of leak have not been determined. Dikes have been installed to prevent any more losses from the leak site..Enbridge plans to install more booms today. And has 17 tankers to move oil and water mixture to Griffin Indiana.

DNRE concerns are surface water assessments from spill site to Lake Allegan, and Risks to drinking water. DNRE is also concerned with contingencies for containment should the oil get beyond Morrow Lake. Aquatic impacts are also a big concern.

Callhoun County has been declared a state of emergency.

One additional concern is equine encephalitis. There is one suspected human case and one horse mortality. This is a mosquito born illness so protection of the workers is necessary.

Director Humphries attended this briefing and Attorney General Cox observed the contamination on the river.

Press conference is scheduled for 3pm today at McCamley Place and next briefing is 6pm.

Update from 7/29/2010 AM briefing

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[07/30/2010 at 15:47 EDT Gary Whelan-MI Dept of Natural Resources](#)

Department of Natural Resources and Environment has established the following Calhoun County Oil Spill Incident Call In/Call Out Protocol

Staff will call Station 20 (DNRE-LED RAP Room) at the Non-Public/Officer Only Number (517)

Required Information to supply to dispatch:

1. Time in-service
2. Name and department/division
3. Contact information (radio, cell phone, etc.)
4. Activity
5. Location
6. Number of people in work team
7. Expected time to clear the task (off the water, back from foot patrol, etc.)
8. Time out of service

IMPORTANT NOTE: It is imperative that all personnel involved in the incident follow the above protocol and remember to clear and check out of service with Station 20. Failure to do so will activate a search party.

[07/30/2010 at 15:43 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE - Wildlife Division reports telephone contact was made with John Lerg, Wildlife Habitat Biologist, at approximately 8:15 AM. John is Wildlife Divisions "on-site" staff and has been

involved with wildlife activities since Monday July 26. John relayed to Mike Bailey information on Wildlife Division participation on this event.

To date Wildlife Division staff involved in this incident has included: John Lerg (on-site and has Haz-met training), Sara Schaefer (Southwest Management Unit Supervisor- telephone contacts with public, Lerg and Division Lansing staff), Cindy McQueer(logistics),Chris Hoving (T&E Specialist provided information to Lerg), Mike Bailey (Species and Habitat section Supervisor - ECC and contacts with Lerg), Vicki Brown (Wildlife Safety Coordinator - ECC), Douglas Reeves (Assistant Division Chief) and Russ Mason (Division Chief).

[07/30/2010 at 15:29 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE - Water Resources Division - Kalamazoo River Water Monitoring Plan

July 30 – August 2, 2010

Sample sites: Comstock, Allegan, D Avenue, upstream background site

Specific site locations will be identified Friday

Analytes: BTEX (benzene, ethylbenzene, toluene, xylene); PNAs (method 8270); VOCs (method 8260); oil and grease short and long chain scans (ORO, DRO, GRO); metals scan including Hg, Ni and vanadium; GN and GA (conventionals, hardness, TOC, TSS); PCB (for RRD); pH; conductivity; DO; temperature

Field schedule:

- Friday – Brenda Sayles, Sylvia Heaton (517-)
- Saturday – Mike Walterhouse (517-), Sylvia Heaton
- Sunday – Mike Walterhouse, Sylvia Heaton
- Monday – Mike Walterhouse, Sylvia Heaton

Results reporting – Mike Walterhouse:

- First report expected late Saturday (7/31/10); will include all available results

[07/30/2010 at 15:25 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE - Recreation Division reports Fort Custer Recreation Area is open, along with the campground. The Riverside Cabin remains closed, along w/ a few campsites and the access points. Clean up crews are using the access point within the park. Staff are getting a lot of questions from the public re: the oil spill, but once people understand the situation as it relates to the Rec. Area, they have been satisfied. George Cameron in transition to take a look at the access sites.

[07/30/2010 at 15:23 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE - Water Resources Division has Sylvia Heaton and Brenda Sayles collecting water samples today at or near Comstock, Allegan, D Ave plus an upstream background sample in Kalamazoo River at a location to be determined based on access.

Sylvia`s cell phone: 517-

Brenda will have the truck cell phone: 517-

Greg Danneffel is at eoc friday and kam jordan (269-) Saturday for Water Resources Division.

They have also completed an analysis of water travel time to Lake Michigan.

We were able to put together an approximate model using the current flow rates and estimated the following approximate times at various locations; with Morrow Dam being time 0:

Plainwell Dam - 10 hours

Menasha Dam - 12 hours

Otsego Dam - 15 hours

Trowbridge - 18 hours

Allegan City Dam - 24 hours

Lake Allegan in - 36 hours

Lake Allegan out - 81 hours

Kalamazoo Lake - 91

Lake Michigan - 100 hours

These values were developed by Bruce Menerey, P.E. MDNRE - Water Resources Division, P.O.

Box 30458, Lansing, Michigan 48909-7958, Telephone: 517- and e-mail:
 ichigan.gov

[07/30/2010 at 15:11 EDT Gary Whelan-MI Dept of Natural Resources](#)

Concerns Problems:

Fisheries Division will have at least one boat conducting aquatic resource surveillance on Saturday with 2 staff and Jay Wesley.

No additional staff for fish kills needed at this time. Jay Wesley recommended two more boats (with 2 people each) needed to assist with water quality and air samples for next week. Two Fisheries Division staff were requested to be on land to help riparians with reported dead fish and oiled turtles. Hard hats and safety vests (orange reflective) will be needed. Staff will meet at 10 AM at the the Wildlife Rehab facility (14998 Old 27 North, Marshall).

[07/30/2010 at 15:11 EDT Gary Whelan-MI Dept of Natural Resources](#)

DNRE Fisheries Division Staff (Brian Gunderman, Kregg Smith, Ed Pierce, Mike Wilson and Matt Smith along with 1 Enbridge staff air quality, 1 Status Consulting Biologist doing Fish Damage, and 2 Status Water Quality staff collecting water samples) are on the river in three boats in the area of the Historic Bridge Park near the I-94 bridge conducting surveillance, determining numbers of aquatic organisms affected by the spill, collecting fish for fish health and oil spill analysis, and collecting herps and reptiles that are distressed or dead. One boat is collecting water samples and the other two boats are collecting observation information, dead fish and other aquatic life, and oiled turtles. Boats went upstream 1 mile and found no dead fish and collected several oiled turtles for rehab. Jay Wesley toured river from Historic Bridge Boat Launch to Augusta from every land location (bridge and road crossings). From Battle Creek to Augusta there is no fish kill evidence, and banks and vegetation oiled. Above Battle Creek, crude oil and heavy sheen were observed.

Downstream from Battle Creek, much less evidence of crude oil but heavy sheen was seen. At Augusta, a moderate sheen was observed and none below Morrow Pond. Most of the oil appeared to be above Battle Creek.

Fisheries Division surveillance on Thursday on Ceresco Impoundment only found 1 dead bluegill but did find variable dissolved oxygen concentrations from 2.9 to 6-7 mg/l, improving in the late afternoon.

[07/30/2010 at 11:14 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE ECC is now operational in the Mason Building and will be staffed from 8 am to 5 pm atleast through Sunday. We've established lines of communication between IC, SEOC, and ECC.

From DNRE ECC briefing: DNRE staff is sampling water down stream from Morrow Lake for contaminants of concern related to crude oil today, tomorrow, and Sunday. Initial results will be available Saturday afternoon, and we'll share when available. In addition, we have staff that are currently beginning to sample for dead fish and other aquatic species, along with indicators of stressed fish. They're putting in the river at from the Historic Bridge Park at the I-94 bridge & hope to work both upstream and down stream.

ECC is assembling general contact list including e-mail and phone, along with Activity logs to keep track of DNRE staff on-scene. DNRE staff are using the earlier assigned project and phase number to account for time, and confirming availability of OT for responding staff. We need assistance from MIOSHA to determine whether they'll accept a 4-hour short course training for DNRE staff provided by EPA to meet minimum health and safety requirements under 29 CFR Part 1910.120 (i.e. HAZWOPER)

We may also make the DNRE laboratory available to analyse samples from residential wells, but will not publicize until we work out issues associates with pitential cross contamination of water samples from ambient air.

USFWS requested additional assistance with natural Resource Damage Assessment activities, and we're working that out internally.

[07/30/2010 at 09:47 EDT Environmental Quality--State Emergency Operations Center-](#)

Mark Ducharme from Kalamazoo District Office reports that the EPA liaison to the SEOC will be Chris Christensen. He will be enroute shortly. Mark requested that Christensen bring the latest copy of the IAP and UIC Org Chart. I'll report EPA's ETA to SEOC when available.

[07/30/2010 at 08:58 EDT Environmental Quality--State Emergency Operations Center-](#)

The USFWS Incident Command Center, which is also the wildlife rehabilitation center is located at 14998 Ols US 27. MSP will locate on the map.

[07/30/2010 at 07:57 EDT Environmental Quality--State Emergency Operations Center-](#)

Greg Denneffel reports the following from last evening's briefing:

Following are notes from the 6:00 pm ICS briefing.

Enbridge Update

20 collection points are operational. They believe product is present up to 16 miles downstream of Talmadge Creek.

More absorbant boom will be located at sites where sheen is present behind the containment boom. A lot of oil on the river banks in the upper areas (generally Battle Creek upstream). Also, product remains in this portion of the river in smaller pockets where water is not moving, or where the river has receded leaving floodplain areas isolated from the river. EPA discussed this aspect as well. Strategies for mopping up these areas are being developed and Enbridge has portable skimmers being delivered to the site.

EPA Update

USEPA continues to provide support for air monitoring, as does the MI Nat. Guard Civil Support Group.

They are pleased with the additional resources that have and are being brought in, but continue to have serious concerns regarding organizational problems that are resulting in somewhat ineffective application of the resources.

The EPA research vessel named "Mudpuppy" is in route to the site. It will be used in Morrow Lake to monitoring for evidence of oil as well as water quality.

Calhoun County Health Department

Bottled water is available at 3 pickup sites. It is expected that approx. 100 homes will utilize this service. Groundwater and private well sampling continues to be planned and implemented.

Generally, homes within 200 feet of the river will be monitored.

20 to 30 homes will be evacuated beginning at 03:00 hrs, July 29, 2010. These evacuations are based on air monitoring results in the area. MDCH is assisting in this effort.

MSP Update

Capt. Tom Sands, MSP deputy director of homeland security (not exactly sure that title is 100% correct), provided an update of MSP activities. The SEOC has been activated and all future activities by state agencies will be routed and documented through E-Team. This is intended to provide documentation of responsiveness, results, and resources devoted to the effort.

DNRE Update

Contingency planning is continuing. The Consumers/Caulkins Dam at Lake Allegan has been drawn down the FERC minimum level. Evaluation and discussions are underway to determine if further drawdown is appropriate at this time. The City of Allegan Dam is not likely to be a significant option for drawdown/containment due to the low underflow capacity relative to current river flows combined with the low volume of storage in the upstream impoundment. With respect to the option of containment in the Plainwell mill race/spillway, evaluation of the structural integrity of the dam structure at the downstream end is needed.

WRD will begin sampling in the Kalamazoo River at Comstock, the D Avenue Bridge downstream of Kalamazoo, and at the M-89 bridge just upstream of Lake Allegan, on July 30. This sampling will supplement the Enbridge sampling. Organization and availability of sample data is being discussed. Lt. Lee Stanard has joined the site incident command in Marshall to help facilitate integration into the SEOC.

[07/29/2010 at 16:54 EDT Environmental Quality--State Emergency Operations Center-](#)

Jay Smith advised there are 6 fisheries personnel in Calhoun County assisting US F&W with dead species collection. These personnel are: Brian Gunderman, Dave Kenyan, Ed Pierce, Matt Smith, Mike Wilson, Kregg Smith. One Office of Communications person, Bob Grizzdz and one wildlife person John Lerg.

Jay advised they are recovering a number of muskrats, geese and turtles. They are finding primarily birds, mammals & reptiles and not many fish.

He stated personnel are checking in at 7am and departing by 7pm. Currently there is one boat remaining on the water.

We discussed checking in with RAP as one point of contact for our agency.

[07/29/2010 at 15:30 EDT Environmental Quality--State Emergency Operations Center-](#)

FMD has placed a team on standby by request of the Director.

[07/29/2010 at 14:13 EDT Environmental Quality--State Emergency Operations Center-](#)

Enbridge MSDS attached

[07/29/2010 at 11:42 EDT Environmental Quality--State Emergency Operations Center-](#)

From Cora Rubitschun, also see attachment:

Joseph Lovato, Chief, Contamination Investigation Unit, and I, upon the request of Jim Rutherford, Health Officer, Calhoun County Department of Public Health (CCDPH), traveled to the CCDPH's office in Battle Creek on July 28, 2010, to assist Mr. Rutherford and his staff regarding issues specific to drinking water and residential wells.

Mr. Lovato and I assisted the CCDPH staff in creating a draft advisory for a 200 foot buffer zone on either side of Talmadge Creek, Squaw Creek, and the Kalamazoo River. The advisory consisted of informing the residential property owners within this buffer zone to discontinue use of their individual residential water wells for drinking and cooking, and to use bottled water in the interim until it could be established that the pipeline release was controlled. Property owners were also to be advised that all other household uses of their well water were acceptable. The advisory was intended to extend west to the county line and would affect approximately 100 homes. We emphasized that no public municipal water supplies were impacted or at risk at this time, and that this advisory was for individual well water users only.

We also advised that the county and other participating agencies, including Enbridge Energy, hold off on sampling drinking water wells until the vapor issues dissipated. I have attached a copy of the draft advisory that was written at the CCDPH yesterday.

We toured the areas that were impacted with the CCDPH staff, including the Ceresco dam. This area is all on private water well supplies and the fumes are strong in the area with the high humidity. The river banks are coated in oil and there are some low spots in residential yards that appear to be within the flood plain where the oily water and sludge has pooled. We witnessed wildlife coated in oil even at this spot approximately 5 miles downstream from the release point.

We then attended a central command briefing at a Marshall Elementary school. There were over one hundred representatives there of various federal and state agencies as well as congressional offices. The briefing described the status of the cleanup which is in the very early phases. Booms have been placed along the creek and river. Skimmer trucks are working to collect oily water from the areas impacted and Enbridge Energy says the pipeline release itself has been contained and is shut down. After that meeting, we attended a central command meeting where the buffer zone proposed by the CCDPH was discussed as well as the water well sampling issue. It was decided that sampling of about five homes would be conducted. We encouraged them to collect both trip blanks and sample blanks along with the water well samples. Linda Dykema, toxicologist, Department of Community Health, was in attendance and she stated that the air samples collected so far indicate 3 to 15 ppm benzene in the air in the area closest to the release point.

We agreed to contact the Kalamazoo County Health Department to brief them on what is being done in Calhoun County and to assist with concerns from citizens in Kalamazoo County.

[07/29/2010 at 11:22 EDT Environmental Quality--State Emergency Operations Center-](#)

The SOM JIC is requesting PIO assistance from DNRE. I contacted Bob Gwizdz and left a

voicemail, I also emailed Bob and Mary Dettloff advising of this request.

[07/29/2010 at 11:07 EDT Environmental Quality--State Emergency Operations Center-](#)

DNRE Liason Lee Stanard is at in Calhoun County with Director Humphries. Mark DuCharme is will be en route to Calhoun County to make contact with EPA personnel.

[07/29/2010 at 09:39 EDT Environmental Quality--State Emergency Operations Center-](#)

Cora Rubitschun advised she would be providing a memo on her and Joe Lovato`s recommendations regarding drinking water. She and Joe were requested by Jim Rutherford, Health Officer for Calhoun County to assist in contamination investigations of the drinker water supplies. She stated there is no concern of public water supply contamination and does not believe any private water wells are impacted.

[07/29/2010 at 08:54 EDT Environmental Quality--State Emergency Operations Center-](#)

Lt. Lee Stanard is on at the Calhoun Co EOC. I left a message with Greg Danneffel advising to make contact.

[07/29/2010 at 08:51 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf @ SEOC. EMHSD Staff is looking for a document concerning oil sheen info, IE How much oil creates how large of sheen... I sent a request to Pete Ostlund, Tracy Kesckemeti and Susan Parker.

[07/28/2010 at 20:53 EDT Environmental Quality--State Emergency Operations Center-](#)

I received this update from Kam Jordan on my Blackberry @ 12:25a.

This is a follow up to the 4pm EOC meeting. I sat in for Greg Danneffel. The heavy oil deposits are found within the upper 10 miles of the 30 mile contaminated reach. Below that it is a heavy sheen and then a lighter sheen at 35th Street which is the upper (east end) of Morrow Lake. Three additional booms have been deployed. There is plenty of boom material available for deployment, but access to some of the sites for consideration may be difficult. Construction of access roads may be required. According to Enbridge they have collected 2300 barrels of liquid of which 90% is oil. This compares to 1085 barrels yesterday. Air monitoring along the river will continue to determine if the levels of Benzene exceed safe levels. It is likely 2-10 additional homes will have to be evacuated due to elevated Benzene levels. Ground water sampling will begin at residential wells close to the river. The Calhoun County Health Department will recommend anyone with a residential well within 200 feet of the river should use bottled water from drinking and cooking. Kalamazoo County Health Department and possibly Allegan County Health Department will be contacted to discuss the drinking water issue as well. The USFWS has set up pens to hold contaminated wildlife. They will start washing wildlife tomorrow. An issue that came up is DNRE staff working in the river operating boats, collecting wildlife etc. that do not have at least the 24 hour Hazwoper Training.

[07/28/2010 at 20:01 EDT Environmental Quality--State Emergency Operations Center-](#)

FOR IMMEDIATE RELEASE No. 10-OPA80

EPA Assumes On-Scene Coordinator Role in Response to Enbridge Kalamazoo River Spill
CHICAGO (July 28, 2010) – The U.S. Environmental Protection Agency has assumed the role of Federal On-Scene Coordinator in response to the Enbridge oil spill in the Kalamazoo River. In that role, EPA will coordinate the response activities carried out by federal and state officials and will direct the response efforts carried out by Enbridge, Inc.

EPA has responsibility under the Oil Pollution Act of 1990 for this spill because it happened inland, rather than offshore.

“EPA and other federal and state agencies mobilized immediately in response to this spill and have taken a series of steps to minimize the damage this spill does to the river and surrounding communities,” said EPA Administrator Lisa P. Jackson. “This is a serious spill that has the potential to damage a vital waterway and threatens public health. Staff from EPA’s regional and headquarters office are on the scene and ensuring the leaked oil is contained and cleaned up as quickly and effectively as possible.”

On Monday, July 26, a 30 inch pipeline belonging to Enbridge Inc. burst in Marshall, Mich., releasing hundreds of thousands of gallons of crude oil into Talmadge Creek, a waterway that feeds

the Kalamazoo River. The spill has affected up to 25 miles of the Kalamazoo River. The spill site, located between Marshall and Battle Creek, includes marshlands, residential areas, farmland and businesses.

While the oil leak has stopped, this incident is far from over. EPA believes over a million gallons of oil may have leaked into the river. The Kalamazoo River is a fast-moving river and EPA's focus right now is on preventing oil from the Enbridge spill from affecting sensitive shorelines and, ultimately, keeping the oil out of Lake Michigan.

EPA – and Enbridge, at the Agency's direction – are taking action to contain and clean up the oil. In addition to work on the river, other steps include:

- On Monday when the spill began, EPA launched air monitoring in the area to determine what impact, if any, the spill is having on air quality.
- Yesterday, EPA issued a field order outlining clear lines of authority for federal and state responders and naming EPA as the On-Scene Coordinator.
- Yesterday, EPA also requested the U.S. Coast Guard make \$2 million available to fund the federal government's operations in response to the spill. EPA can request additional funding if it determines more is needed. The federal government intends to seek full reimbursement for all money spent on this response from the responsible party, Enbridge, Inc.
- EPA will move additional vessels into the area within days to assist in the response.
- EPA has launched a website, www.epa.gov/enbridgespill that contains information about the agency's activities. EPA will also post data from ongoing air monitoring as it becomes available.

[07/28/2010 at 17:31 EDT Environmental Quality--State Emergency Operations Center-](#)

Upon arrival at the site, Judie Alfano made contact with Greg Danneffel (WRD) and with Lisa Williams (USFWS) and learned that all current on-site activities were focused on responding to the spill. At the suggestion of Lisa, Judie began identifying the necessary information and data needs that would be required to assess the natural resource damages (NRD) resulting from the spill in consultation with Stephanie Millsap (USFWS).

As part of this effort, Judie:

- Conducted a visual inspection of the site.
- Provided suggestions to parties at the site (e.g. DNRE Fisheries Division staff and Enbridge Energy's environmental consultant) as to the nature and location of samples that could be collected at this point in the response which would be useful in conducting portions of a NRD Assessment, if any in the future. (This effort was intended to facilitate coordinated data gathering between the various parties at the site).

Doug Beltman, of Stratus Consulting Inc., was also on site, at Judie's request, to provide technical advise regarding issues pertaining to assessing the NRDs resulting from the spill and assisted her in the above activities. [Note: Stratus Consulting is under contract with DNRE-RRD to concerning the assessment of NRD related on the Kalamazoo River Superfund Site which is proximate to the spill area.] Doug will be returning to his office after today. However, Lisa Williams has apparently indicated that she anticipates pursuing a contract between USFWS and Stratus to provide further assistance at the spill.

At no time during their presence on the site did either Judie or Doug enter any restricted areas or hot zones.

Judie will contact Mike Walterhouse (WRD) to provide a more thorough summary of her activities at the site and share her observations and thoughts concerning NRDA with him.

[07/28/2010 at 16:24 EDT Environmental Quality--State Emergency Operations Center-](#)

The MDCH team is still working with the Enbridge contractor, the EPA, and Calhoun County Health Department to finish the air sampling plan. Jim Rutherford is working with the DNRE Drinking Water Division (Cora Rubitschun and Joe Lovato) to identify the location of private wells and to develop a water sampling plan.

[07/28/2010 at 16:22 EDT Environmental Quality--State Emergency Operations Center-](#)

The EOC has moved to 705 N. Marshall Road, Marshall, MI. There is no telephone number or

technical infrastructure set up at this time.

[07/28/2010 at 14:37 EDT Environmental Quality--State Emergency Operations Center-](#)

MDOT requested specific information regarding a project scheduled to commence on the I94 bridge west of Marshall. Greg Danneffel spoke with EPA who advised that MDOT send a representative to the EPA IC Mtg @4p. This info was given to MDOT Connie Vallier.

[07/28/2010 at 14:09 EDT Environmental Quality--State Emergency Operations Center-](#)

Judie Alfano, our natural resources damage specialist, is in the vicinity and has consultants with her who have been working with us to assess damages on the River in the past (related to the historic PCB contamination in/along the River). Bill Creal and Lynelle Marolf have started a conversation about which Division will take the lead on natural resource damage assessment work. It will certainly be a team effort, but we want to have a lead person to facilitate communications, etc.

[07/28/2010 at 14:06 EDT Environmental Quality--State Emergency Operations Center-](#)

Information concerning possible MDNRE employee actions:

Paul Bucholtz and Ralph Reznick may be at the scene. Paul may also be with a representative from USEPA, James Saric. These folks all have a roll to play in regard to the Kalamazoo River Superfund Site. While Paul and the WB staffers were to be out on the river for another purpose, since he left, Mike Alexander is dealing with a request from Consumers Power to lower the waters behind one of the dams in an attempt to minimize the amount of crude that can go down river. Mike needed to know from Superfund program staff what possible exacerbation effects a dam lowering might have. Per Daria Devantier, Paul has been in contact with Mike but has not had a recent update.

[07/28/2010 at 12:32 EDT Environmental Quality--State Emergency Operations Center-](#)

MDNRE staff with the contamination investigation unit (Cora Rubitschun and Joe Lovato) have been contacted by Calhoun County to assist with an investigation to determine whether any private wells have been impacted by the oil spill. They are assisting with the investigation.

[07/28/2010 at 12:21 EDT Environmental Quality--State Emergency Operations Center-](#)

MDOT is requesting info concerning air levels above the I94 Kalamazoo River bridge west of Marshall.

[07/28/2010 at 10:17 EDT Environmental Quality - VanOtteren--State Emergency Operations Center-](#)

Wildlife Impact update: Talmadge creek extremely impacted with aquatic species and some terrestrial/aquatic species either confirmed or assumed dead. The investigation of wildlife impact there is still largely not possible due to the health risks posed (wildlife biologists don't have testing, training and authorization to work in respirators, as is now required in this area). Investigations in Talmadge creek and in the Kalamazoo river are also hindered by high water, in that boats cannot pass under some bridges, and simply due to difficulties of working during this flood status. Investigations on the Kalamazoo river are likely to show an overall greater adverse impact to wildlife because of the comparatively greater diversity of species and number of individuals in that watershed. Wildlife that may be impacted include fish, ducks, geese, swans, river otter, mink, muskrats, turtles, racoons, frogs, salamanders, mussel beds and primary food sources including primarily macroinvertebrates. A Wildlife Rehabilitatin Center has been established and dead animals are being collected for pathology testing and natural resource damage assessments.

Release Containment Update: this morning there were 10 booms in place, and they expect 10 additional booms to be placed today, along with the cleanup equipment of vac trucks, skimmers, and waste transport trucks.

Release Extent Update: 35 Kalamazoo River miles affected so far down to but not into Morrow Lake, plus the 1 mile or so of Talmadge Creek. The oil is said to be entering the Fort Custer nature preserve at this time.

1st responder hazards: inhalation and direct contact risks driven primarily benzene require responders in the immediate vicinity of the release to Talmadge Ck. to be outfitted in level C, with respirators and appropriate personal protective equipment.

[07/28/2010 at 09:00 EDT Environmental Quality--State Emergency Operations Center-](#)

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[07/27/2010 at 17:45 EDT Environmental Quality--State Emergency Operations Center-](#)

From: Humphries, Rebecca (DNRE)

Sent: Tue 7/27/2010 5:45 PM

Subject: Pipeline Ruptured on Enbridge Energy's Lakehead System - Message from the Director
Dear DNRE Staff,

On July 26, a pipeline ruptured on Enbridge Energy's Lakehead system near a pump station in Marshall, Michigan. The leaking pipeline spilled about 877,000 gallons of oil (roughly 20,000 barrels) into a creek leading to the Kalamazoo River, according to estimates from Enbridge Energy Partners, the Canadian company taking responsibility for the spill.

The State Emergency Operations Center (SEOC) has been partially activated and they are working with Calhoun and Kalamazoo County Emergency Command Centers to coordinate spill response.

Please refer all press calls on this incident to Mary Dettloff, at 517- (office) or 517-

(cell). Mary is coordinating press calls with the SEOC Public Information Officer Nicole Lisabeth (cell phone number is 517-).

The DNRE crews are on the scene, both monitoring the river and conducting damage assessments. Greg Danneffel, Water Resources Division, is the DNRE contact at the site, and he is working with Fisheries, Wildlife, Law, and Parks Divisions as appropriate. The U.S. Environmental Protection Agency (EPA) is the lead agency, and other federal agencies are also on site.

Information on the oil spill and information from the County Health regarding the spill is being put up on our Web site at <http://www.michigan.gov/dnre> and will be updated as more information is available.

The information we have to date is:

- The leak originated at the Enbridge site, at 16000 Division Drive near the border of Marshall and Fredonia townships. The oil spilled into Talmadge Creek, which flows northwest into the Kalamazoo River.
- The Lakehead oil pipeline system, at 3,100 miles, is one of the longest in the world. The 30-inch pipeline carries about 8 million gallons of oil per day from Griffith, Indiana, to Sarnia, Ontario. Heavy rains have swollen the creeks and the Kalamazoo River, making it possible for oil to get past booms and barriers and make its way downstream to Battle Creek and Kalamazoo.

Enbridge has cleanup equipment and staff resources on site working to contain the spill.

The Kalamazoo County Health and Community Services Department has advised people - until further notice - to avoid all surface-water activities including swimming, wading, fishing and boating/canoeing/kayaking.

Calhoun County officials say the situation should not affect Marshall drinking water (which comes from groundwater), at least in the short term.

The DNRE is fully aware that area wildlife is affected - and we understand that people are concerned and want to do something to help - but unless you have specialized training and necessary equipment, please call 800- to report affected wildlife. Otherwise, your attempts to rescue an animal could actually further stress the animal and worsen the situation. As soon as the DNRE and U.S. Fish and Wildlife Service are given clearance to begin rescue efforts for affected wildlife, those efforts will begin.

Visitors planning a trip to a Michigan park or recreation area in the vicinity of the spill and cleanup area should be aware there may be an odor if/when the oil slick moves into the area. People with reservations or considering making a reservation should call 800-

The DNRE will continue to respond as needed and please follow updates on our website. Thank you.

Becky Humphries

[07/27/2010 at 17:30 EDT Environmental Quality--State Emergency Operations Center-](#)

Jen Wolf departing. Bruce will be in at 8a.

[07/27/2010 at 16:00 EDT Environmental Quality--State Emergency Operations Center-](#)

>>> Maher, Sharon (DNRE) 7/27/2010 4:00 PM >>>

Kim Stephen and I will get with the former DNR financial folks to set up account codes. We'll get back to you tomorrow morning with the numbers.

Thanks, Sharon

[07/27/2010 at 15:32 EDT Environmental Quality--State Emergency Operations Center-](#)

From: Danneffel, Gregory (DNRE)

Sent: Tue 7/27/2010 3:32 PM

To: Danneffel, Gregory (DNRE); Hanifan, Mary Ann (DNRE); Fish, Kim (DNRE); Creal, William (DNRE); Masterson, Mike (DNRE); Dettloff, Mary (DNRE); Koch, Arminda (DNRE); Ruswick, Frank (DNRE); Thelen, Mary Beth (DNRE)

Cc: Jordan, Kameron (DNRE); Wesley, Jay; VanOtteren, Bruce (DNRE)

Subject: Calhoun County Crude Oil Spill

This is an update based on info provided by Enbridge and USEPA this morning and during the noon briefing. Sorry if it's disorganized a bit.

A press conference is scheduled for 4:00 pm. An improptu public meeting was scheduled by local citizens and will be held at the Ceresco Baptist Church at 7:00 pm. Our next briefing is at 6:00 pm, here at the Incident Command Center, which is located at the Calhoun County Justice Complex in Battle Creek.

A mobile lab has been set up for air, surface water, and groundwater monitoring. Monitoring plans are being developed and will be available at the 6:00 pm briefing. We intend to review and provide input into these plans.

The estimated loss stands at 877,000 gallons, but is subject to revision. 16 miles of river is affected downstream of the source as of noon today. Oil has been observed as far downstream as the boat launch in the Fort Custer state park.

An ample supply of equipment seems to be on site and enroute. Over 30,000 feet of boom and several vac trucks are available, more are on the way. High water levels are making mobilization somewhat difficult though, so not all this equipment has been utilized yet. Boom and collection activities are in place at several locations on Talmadge Creek, as well as in the Kalamazoo River between Marshall and Battle Creek. Booms are also being placed downstream near Augusta and are planned where the Kalamazoo River empties into Morrow Lake.

Odors are reported to be somewhat less, mainly due to volatilization of the lighter fractions in the heavy crude.

More details on Enbridge's response plan will be out at 6:00 pm. The aspect of this plan that may concern us includes construction of a dam/structure across the Kalamazoo River to intercept oil and allow it to be collected. I have expressed concern about that part of the plan, but said we would need to review.

USFWS is overseeing wildlife collection, damage assessment and rescue. A center has been set up at 14998 US 27 - Focus Wildlife is providing the service. USFWS asks the public not to collect or attempt to help wildlife due to contact issues as well as threats this may present to wildlife.

Please forward to anyone I may have missed and let me know if there are questions or information you would like me to pass along.

Greg Danneffel

Kalamazoo District Supervisor

Water Resources Division - Surface Water

Phone: 269-

Fax: 269

email: michigan.gov

[07/27/2010 at 15:17 EDT Natural Resources--State Emergency Operations Center-](#)

07/27/2010 at 15:46 EDT Natural Resources--State Emergency Operations Center-
Stanard secured @ 15:45

07/27/2010 at 15:17 EDT Natural Resources--State Emergency Operations Center-
Lee Stanard on/station for DNRE - Resources @ 13:27

[07/27/2010 at 13:54 EDT Environmental Quality--State Emergency Operations Center-](#)

Bruce VanOtteren and Jen Wolf in Service @ SEOC @ 1333. Will update SitRep from emails and

previous information.

[07/26/2010 at 14:26 EDT Environmental Quality--State Emergency Operations Center-](#)

To: Molnar, Dean (DNRE); Dettloff, Mary (DNRE)

Cc: Julien, Tom (DNRE); Hagler, Gary (DNRE)

Subject: Fw: NRC#948903 - Very Large Crude Oil Spill

According to initial reports, 19500 barrels of crude have been released to a creek upstream from the kalamazoo river. DNRE staff are notified. PEAS On Call Tom Julien will keep you updated. Please notify Water, RRD and LWMD Division Chiefs.

Bruce VanOtteren

[07/26/2010 at 13:49 EDT Environmental Quality--State Emergency Operations Center-](#)

To: Hanifan, Mary Ann (DNRE); Fish, Kim (DNRE); Creal, William (DNRE); Masterson, Mike (DNRE); Dettloff, Mary (DNRE); Koch, Arminda (DNRE)

Cc: Jordan, Kameron (DNRE); Wesley, Jay; Leanin, Kenneth (DNRE); Norton, Steven (DNRE)

Subject: Calhoun County Crude Oil Spill

I spoke to a reporter (Susan Samples) for WOOD TV 8 regarding a crude oil spill in Calhoun Co. near Marshall. The spill is from a leak in a pipeline that crosses Talmadge Creek near Marshall. I told Susan that DNRE staff are on their way to the scene to evaluate the situation. Also, we have been advised by the company responsible, Enbridge, that isolation valves have been closed and that their response crews and others are onsite and enroute. Local emergency response personnel are onsite as well.

That is about all we know at this point, except that there are reports that crude oil has reached the Kalamazoo River, which is within a mile or two downstream of the spill location. Jay Wesley contacted me and advised that Fish Division staff are enroute as well.

I believe we have the response covered, but expect we will receive other inquiries from the media.

Mary Ann, please forward to anyone I may have missed.

Greg Danneffel

Kalamazoo District Supervisor

Water Resources Division - Surface Water

Phone: 269-

Fax: 269-

email: @michigan.gov

[07/26/2010 at 13:46 EDT Environmental Quality--State Emergency Operations Center-](#)

NRC notification received. See Attached report.

Current Objectives:

Projected Objectives:

Concerns Problems:

ACTIVATION STATUS

OP Center Activated:

No

None

CURRENT CAPABILITIES

Availability: Refers to the percentage of resources on hand

Mission Capability: Red = Not Mission Capable, Yellow = Partially Mission Capable, Green = Mission Capable

Responders:

Availability
Mission Capability

Admin Staff:

Availability
Mission Capability

Facilities: Availability
Mission Capability

Communications: Availability
Mission Capability

Consumables: Availability
Mission Capability

Vehicles/Equipment: Availability
Mission Capability

PUBLIC ASSISTANCE (PA) DAMAGES

(NOTE: CATEGORIES A & B - EXCLUDE NORMAL OPERATING COSTS)

	Number of Sites	Estimated Loss
CAT A: Debris Removal and Disposal		
CAT B: Emergency Protective Measures		
CAT C: Road and Bridge Systems (non-federal)		
CAT D: Water Control Facilities (levees, dams, & channels)		
CAT E: Public Buildings and Equipment		
CAT F: Public Utilities (water and power, etc.)		
CAT G: Park/Recreational/other		
Totals:		

CRITICAL RESOURCE RECAP:

Type	No. Deployed	No. Available
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DAMAGE REPORTS FOR THIS AGENCY

Damage Reports for this Agency

NOTIFICATION

Send: No

Message: (max. 140 characters for mobile users)

Individuals

Groups

Other Email addresses

ATTACHMENTS:

Supporting File(s):

- [NRC Report](#)
- [EPA Pollution Report](#)
- [July 28 10:48am Update from Danneffel](#)
- [July 28 8:28p update](#)
- [WRD Org chart](#)
- [Draft Advisory CCHD](#)
- [MSDS](#)
- [DNRE ECC Contact Info](#)
- [Cost Recovery Time Sheet](#)
- [7-30 AM ConfCall](#)

Web Pages:

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