

1. Incident Name:
Sturgeon River US-41 Gasoline Spill

2. Operational Period:
Starting: February 8, 2018, 0830
End: February 8, 2018, 1900

IAP
Cover
Sheet

3. Approved by Incident Commander(s):

 **Ralph Dollhopf, U.S. EPA**

 **Amy Keranen, Michigan Department of Environmental Quality**

 **Rich Baron, Legal Counsel for Klemm**

 **Cathryn Beer, WUPHD**

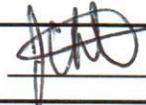
 **Chris Van Arsdale, Houghton County EM**

Incident Action Plan

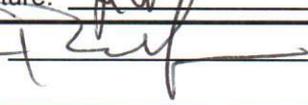
The items below are included in this Incident Action Plan:

- ICS 202 (Response Objectives)
- ICS 203 (Organization Assignment List)
- ICS 204 (Assignment List)

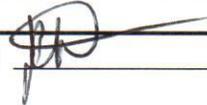


7. Prepared by: Name: Jed Chrestensen Position/Title: Planning Section Chief Signature: 

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name: Sturgeon River US-41 Gasoline Spill	2. Operational Period: Date From: 2-8-18 Time From: 08:30	Date To: 2-8-18 Time To: 19:00											
3. Objective(s): Protect public safety. Protect worker safety. Recover product from the river. Remove product spilled onto the land. Assess potential down river impacts.													
4. Operational Period Command Emphasis: Continue additional air monitoring in residential areas. Continue assessment of river for gasoline below the ice. Monitor for gasoline on the ice or outside of the sheet piling. Continue hauling impacted soil. Continue to evolve ICS.													
General Situational Awareness Product recovery from the banks continues. Public health considerations are ongoing. River assessment is underway.													
5. Site Safety Plan Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located at: Command center trailer													
6. Incident Action Plan (the items checked below are included in this Incident Action Plan): <table><tr><td><input checked="" type="checkbox"/> ICS 202</td><td><input type="checkbox"/> ICS 206</td><td rowspan="5">Other Attachments: <input checked="" type="checkbox"/> Traffic Control Plan <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td></tr><tr><td><input checked="" type="checkbox"/> ICS 203</td><td><input type="checkbox"/> ICS 207</td></tr><tr><td><input checked="" type="checkbox"/> ICS 204</td><td><input type="checkbox"/> ICS 208</td></tr><tr><td><input type="checkbox"/> ICS 205</td><td><input checked="" type="checkbox"/> Map/Chart</td></tr><tr><td><input type="checkbox"/> ICS 205A</td><td><input type="checkbox"/> Weather Forecast/Tides/Currents</td></tr></table>			<input checked="" type="checkbox"/> ICS 202	<input type="checkbox"/> ICS 206	Other Attachments: <input checked="" type="checkbox"/> Traffic Control Plan <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<input checked="" type="checkbox"/> ICS 204	<input type="checkbox"/> ICS 208	<input type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input type="checkbox"/> ICS 205A	<input type="checkbox"/> Weather Forecast/Tides/Currents
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<input type="checkbox"/> ICS 205A	<input type="checkbox"/> Weather Forecast/Tides/Currents												
7. Prepared by: Name: Jed Chrestensen Position/Title: Planning Section Chief Signature: 													
8. Approved by Incident Commander: Name: OSC Ralph Dollhopf Signature: 													
ICS 202	IAP Page 2	Date/Time: 2-9-18 1330											

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name: Sturgeon River US-41 Gasoline Spill		2. Operational Period: Date From: 2-8-18 Time From: 08:30		Date To: 2-8-18 Time To: 19:00	
3. Incident Commander(s)/ Agency Incident Coordinator and Command Staff: (include location)			7. Operations Section:		
<input type="checkbox"/> IMT IC/UCs	Unified Command		Chief	Tom Anthos	906-360-1545
<input type="checkbox"/> IMG AIC			Deputy	Jed Chrestensen	906-281-4726
Deputy			Staging Area		
Safety Officer	Tom Anthos 906-360-1545		Branch River Assessment and Recovery		
Public Info. Officer			Branch Director	Mylan Koski	906-360-4027
Liaison Officer			Deputy	Brandon Ray	269-719-5541
4. Agency/Organization Representatives:			Division/Group	Assessment	906-360-4027
Agency/Organization	Name		Division/Group	Recovery	269-719-5541
USEPA	Ralph Dollhopf 231-301-0559		Division/Group		
MDEQ	Amy Keranen 906-231-6060		Division/Group		
TriMedia	Tom Anthos 906-360-1545		Division/Group		
Klem Counsel	Richard Baron 248-310-9720		Branch B a n k R e c o v e r y		
WUPHD	Kate Beer 906-201-2342		Branch Director	James Deliefde	734-277-7103
Houghton County EM	Chris Van Arsdale 906-281-8170		Deputy		
5. Planning Section:			Division/Group		
Chief	Jed Chrestensen 906-281-4726		Division/Group		
Deputy			Division/Group		
Resources Unit			Division/Group		
Situation Unit			Division/Group		
Documentation Unit			Branch Air Monitoring and Sampling		
Demobilization Unit			Branch Director	Ashley Miller	330-646-7870
Technical Specialists			Deputy		
			Division/Group	TriMedia	906-360-0024
			Division/Group	EPA START	330-646-7870
			Division/Group		
6. Logistics Section:			Division/Group		
Chief	Tom Anthos 906-360-1545		Division/Group		
Deputy			Branch		
Support Branch			Branch Director		
Director					
Supply Unit					
Facilities Unit	Traffic Control-Hans Haapala		8. Finance/Administration Section:		
Ground Support Unit			Chief	Marlin Zechman	610-968-9500
Service Branch			Deputy		
Director			Time Unit		
Communications Unit			Procurement Unit		
Medical Unit			Comp/Claims Unit		
Food Unit			Cost Unit		
9. Prepared by: Name: Jed Chrestensen _____ Position/Title: Planning Section Chief _____ Signature: 					
ICS 203	IAP Page <u>3</u>	Date/Time: <u>2-7-18</u> <u>13:39</u>			

ASSIGNMENT LIST (ICS 204)

1. Incident Name: Sturgeon River US-41 Gasoline Spill		2. Operational Period: Date From: 2-8-18 Date To: 2-8-18 Time From: 08:30 Time To: 19:00		3. Branch: Bank Recovery Division: Group: Staging Area:										
4. Operations Personnel: <u>Name</u> <u>Contact Number(s)</u> Operations Section Chief: <u>Tom Anthos 906-360-1545</u> Branch Director: <u>James Deliefde 734-277-7103</u> Division/Group Supervisor: _____														
5. Resources Assigned:		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information										
Resource Identifier	Leader													
Matt Stenberg	UPE			spill site										
Mark Stenberg	UPE			spill site										
Rob Bloniaiz	UPE			spill site										
Ray Coovim	UPE			spill Site										
Mylan Koski	TriMedia Field Ops		906/360-4027	spill site										
Brian Bonen	B&B		906/281-2587	Spill site										
Hans Haapala	B&B Traffic Control		906/281-6908	Trucking and loading areas										
Mitch Large	B&B			Spill Site										
Joe Lamponin	B&B													
Adam Kiddle	TriMedia		235-3755	Staging Area Waste ticketing										
6. Work Assignments: Meet with all Truck Drivers and Traffic Control Personnel to discuss traffic and loading control plan Prep equipment for excavation loading hauling and backfill/restoration Line trucks with poly to support waste hauling activities Remove surface impacted materials and impacted ice with long stick excavator Remove Impacted soils at release area East and West locations Perform soil impact delineation at rivers edge back to main spill area during excavation Load and truck Impacted materials to Waste Management Landfill (site and stockpile) Maintain Sump collection Area Manage waste ticketing/manifest Traffic Control														
7. Special Instructions: Traffic Control and personnel safety must be a focus during this period of significantly increased heavy equipment activity. Air monitoring and the high potential for increased VOC vapors during excavation and loading activities will be a concern and will be monitored														
8. Communications (radio and/or phone contact numbers needed for this assignment): <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; border-bottom: 1px solid black;">Name/Function</td> <td style="width: 65%; border-bottom: 1px solid black;">Primary Contact: indicate cell, pager, or radio (frequency/system/channel)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">all parties /</td> <td style="border-bottom: 1px solid black;">contact at numbers listed above</td> </tr> <tr> <td style="border-bottom: 1px solid black;">/</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;">/</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;">/</td> <td style="border-bottom: 1px solid black;"></td> </tr> </table>					Name/Function	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)	all parties /	contact at numbers listed above	/		/		/	
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/														
9. Prepared by: Name: <u>Tom Anthos</u> Position/Title: <u>Ops Section Chief</u> Signature:														
ICS 204	IAP Page <u>4</u>	Date/Time: <u>2/7/18 1339</u>												

ASSIGNMENT LIST (ICS 204)

1. Incident Name: Sturgeon River US-41 Gasoline Spill		2. Operational Period: Date From: 2-8-18 Date To: 2-8-18 Time From: 08:30 Time To: 19:00		3. Branch: Rv Assess & Rec Division: Rv Assessment Group: Staging Area:									
4. Operations Personnel: <u>Name</u> <u>Contact Number(s)</u> Operations Section Chief: Tom Anthos 906-360-1545 Branch Director: Mylan Koski 906-360-4027 Division/Group Supervisor: Mylan Koski 906-360-4027													
5. Resources Assigned:			Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information										
Resource Identifier	Leader	# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)										
Ken Decker	SWAT		269/209-2359										
Jed Chrestensen	EPA START		906-281-4726										
Kodi Harkins	SWAT												
Chris Tiede	TriMedia Safety		906-235-8148										
Bootjack Fire Dept	Mark Serotzke		815-739-5193										
Mylan Koski	TriMedia Field Ops		906-360-4027										
6. Work Assignments: Prep air boat Coordinate with Bootjack Fire Dept with recovery craft in the event of a rescue Lead recon team downriver to assess plume leading edge - Start where previous work left off Auger holes down river and perform visual and PID monitoring to assess migration path Document all assessment locations with GPS to populate GIS Figure													
7. Special Instructions: Discuss water evacuation and warming plan in the event of ice rescue Appropriate dress and PPE for the task													
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9. Prepared by: Name: Tom Anthos		Position/Title: Ops Section Chief Signature:											
ICS 204	IAP Page 5	Date/Time: 2/7/18 1339											

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Mark Brown	SWAT													
Kodi Harkins	SWAT													
Chris Tiede	TriMedia Safety		906-235-8148											
Bootjack Fire Dept	Mark Serotzke		815-739-5193											
Mylan Koski	TriMedia Field Ops		906-360-4027											
6. Work Assignments: Discuss sequencing with Team and Excavator operator Maintain boom curtain at western edge and northern edge of surface ice impact area Continue to remove impacted water with Vac Truck, if present Work with landward operators to remove impacted materials														
7. Special Instructions: Discuss water evacuation and warming plan in the event of ice rescue														
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4. Operations Personnel: <u>Name</u> <u>Contact Number(s)</u> Operations Section Chief: <u>Tom Anthos 906-360-1545</u> Branch Director: <u>Ashley Miller 330-646-7870</u> Division/Group Supervisor: <u>Brett Bonsel 906-360-0024</u>																																																										
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6. Work Assignments: Work Area monitoring using Multi-RAE and Ultra-RAE (VOCs, LEL, and Benzene) see map for locations Perimeter Monitoring using Multi-RAE and Ultra-RAE (VOCs and Benzene) see map for locations Community Air Monitoring using Multi-RAE and Ultra-RAE (VOCs and Benzene) see map for locations Community Air Sampling (Summa cans at both residential dwellings) see map for locations Record all readings and locations for delivery to GIS for updates to daily air monitoring figures																																																										
7. Special Instructions: Report immediately to Ops section Chief and FOSC if LEL exceed 10%, VOCs Exceed 50ppm, or Benzene is detected above 0.1 ppm.																																																										
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4. Operations Personnel: <u>Name</u> <u>Contact Number(s)</u> Operations Section Chief: <u>Tom Anthos 906-360-1545</u> Branch Director: <u>Ashley Miller 330-646-7870</u> Division/Group Supervisor: <u>Ashley Miller 330-646-7870</u>														
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Resource Identifier	Leader													
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Cordell Renner	EPA START		847-913-2904	Spill Site										
6. Work Assignments: Work Area monitoring using Multi-RAE and Ultra-RAE (VOCs, LEL, and Benzene) see map for locations Perimeter Monitoring using Area RAEs, Multi-RAE, and Ultra-RAE (VOCs and Benzene) see map for locations Community Air Monitoring using Area RAEs, Multi-RAE, and Ultra-RAE (VOCs and Benzene) see map for locations Residences Air Monitoring using Multi RAE and Ultra-RAE (VOCs and Benzene) see map for locations Record all readings and locations for delivery to GIS for updates to daily air monitoring figures														
7. Special Instructions: Report immediately to Ops section Chief and FOSC if LEL exceed 10%, VOCs Exceed 50ppm, or Benzene is detected above 0.1 ppm.														
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9. Prepared by: Name: <u>Jed Chrestensen</u> Position/Title: <u>Planning Section Chief</u> Signature:														
ICS 204	IAP Page <u>8</u>	Date/Time: <u>2-7-18</u> <u>13:39</u>												

Traffic Control Plan
Sturgeon River US-41 Gasoline Spill
2-8-18

- Truck drivers, flaggers, box-lining staff, and operators attended an 08:00 safety meeting to go over the haul route, traffic flow, and safety.
- The west driveway will be inbound traffic and the east driveway will be outbound traffic.
- All trucks will stage on the east side of DP Construction's shop.
- Trucks will be going past the office trailer so use caution when entering/exiting the office trailer area.
- Trucks drivers are to stay in their trucks unless they need to use the sanitary facilities adjacent to the office trailer.
- Hans Haapala of B&B Contracting or his designee will direct trucks on when to leave staging and where to go to load.
- Communications will be via cell phone from the staging area to the work site.
- Chassell Township School was notified of the expected traffic increase. The school will send a notice to parents.
- Busses load at the school at approximately 3:20 pm and there are several students who walk home from school during that time period. Hans Haapala will notify all drivers of the school schedule.
- No smoking.
- Last load will leave the site at 3pm.

Signed: _____


ops SECTION CHIEF
TOM ANTROS

Date: _____

2/7/18



Location	Total VOCs (ppm)	Sheen	Odor	Dye
MP-1	0.0	No	No	2/6/2018
MP-2	0.0	No	No	2/6/2018
MP-3	0.0	No	No	2/6/2018
MP-4	0.0	No	No	2/6/2018
MP-5	0.0	No	No	2/6/2018
MP-6	0.0	No	No	2/6/2018
MP-7	0.0	No	No	2/6/2018
MP-8	0.0	No	No	2/6/2018
MP-9	0.0	No	No	2/6/2018
MP-10	0.0	No	No	2/6/2018
MP-11	0.0	No	No	2/6/2018
MP-12	0.0	No	No	2/6/2018
MP-13	0.0	No	No	2/6/2018
MP-14	0.0	No	No	2/6/2018
Ground	N/A	N/A	N/A	2/6/2018



0 625 1,250 2,500 Feet

FIGURE 2
STURGEON RIVER US 41 GASOLINE SPILL
SPILL AREA DISTANCES & RIVER ASSESSMENT
SHEET 1 OF 1



Legend

- Spill Area
- On River Product Assessment Locations



Drawn: ESN 2/6/2018
Approved: MAK 2/6/2018
Project #: 2018-024