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Naugatuck River Site Survey Summary
April 17, 2019

Site Survey Participants:

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Tom Amy, Town of Seymour
Wayne Zirolli, Town of Naugatuck
David Tripp, Torrington FD

SITE: Kinneytown Dam (NR-06)- Hydrodam and Pump station in Kinneytown

SURVEY TEAM
LeClerc, Way, Chau, Duponte, Hall, Zak, Popovich, Amy
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
The Naugatuck River flows from the Massachusetts border southward until it joins the Housatonic River near Shelton, CT. This location is at the bottom reaches of the river right above the Kinneytown Dam, which creates hydroelectric power when operating and includes a fish ladder that allows for anadromous fish to spawn upstream. The fish ladder is located on the western side of the river. The team identified the following characteristics of the site and potential for response activity on the river: - This part of the river is too shallow to get a large vessel in the water. - Access is difficult at this part of the river (due to heavy vegetated growth and tress along bank), but access could be cleared for a small vessel. - Collection at this location could be dangerous due to risks from being in close proximity to the dam. Another site located approximately 1 mile upstream and behind a Town of Milford pump station was also surveyed. Access to the river is still problematic here, but the river is flowing slower and has a hard bottom. The depth of the river here is about 3'. The team identified the following characteristics of the site and potential for response activity on the river: - There is no boat ramp here, but a boat or kayak could be put in at this location fairly easily from the bank. - There is a small grassy area that could be used for staging and recovery. - This area is town owned, so it would be easier to utilize than the hydroelectric dam.

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STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
Diversion (DV) booming with shoreside recovery (SR) tactics at either the pump house or hydroelectric dam.

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SITE: Riverbend Park (NR-05)- Naugatuck River at Riverbend Park

SURVEY TEAM
LeClerc, Way, Chau, Duponte, Hall, Zak, Popovich, Jabanoski
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
This location is approximately 5 miles upriver from the NR-06. This location is a natural collection point for oil as there is a significant turn in the river and the flow is slow and winding. This is very popular recreational fishing location. This could be a dangerous location for boating as the bottom is rocky and uneven. There is a USGS stream gauge within 1 mile of the location surveyed. Accessing this data would provide information on flow rates and water depth year-round. There is a freight rail line that is directly across from the survey site that runs up to 10 times per day. The team identified the following characteristics of the site and potential for response activity on the river: - There are natural collection points in this area, which is a good indicator of response success. - There is plenty of room for shoreside recovery in the parking area and there is also a gravel ramp that goes into the river. - If flow is lower than the levels that were surveyed, recovery could be difficult.
STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
DV/SR at Riverbend Park. Passive Recovery(PR)/SR along the bank at natural collection points.

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SITE: Hop Brook/Linden Park (NR-04) Naugatuck River at Long Meadow Brook and Linden Park

SURVEY TEAM
LeClerc, Way, Chau, Duponte, Hall, Zak, Popovich, Zirolli
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
There were multiple sites that were surveyed for this area. The first location, which was not a planned location, was across from Long Meadow Brook at Breen Park. Long Meadow Brook feeds into the Naugatuck at this location, which could pose a risk to the Naugatuck should there be a spill into Long Meadow Brook. The team identified the following characteristics of the site and potential for response activity on the river: - There is a good amount of staging area and shoreside recovery space at this first location. - The river generally flows slowly at this location. - There are higher banks in this area, which may complicate booming and recovery operations. - Culvert blocking/Exclusion booming could be used to contain product entering the Naugatuck from Long Meadow Brook. The second location that was surveyed for this GRP is at Linden Park. This location is owned by the town of Naugatuck and is a popular recreational facility. The town officials described several projects that will be implemented to improve recreational access. At the time of surveying, the park had some construction equipment in the parking lot that the survey team was told were stored there temporarily. This project will create a greenway along the Naugatuck River and is part of a master plan for the river. The team identified the following characteristics of the site and potential for response activity on the river: - This part of the river is wider and has some rocks/rapids which may emulsify oil. - There are multiple levels of open area that could be used for shoreside recovery and staging, some closer to the river and some closer to the parking lot. Identifying which area to utilize would be up to the responders dependent on water levels and location of the spill. - Diversion booming and shoreside recovery tactics can be implemented here.

STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
DV/SR tactics at Breen Park or Linden Park dependent on the location of the GRP.

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SITE: Waterbury Point (NR-03B) Naugatuck River at Platts Mills Road

SURVEY TEAM
LeClerc, Way, Chau, Duponte, Hall, Zak, Popovich, Zirolli
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
While conducting the surveys along the rivers, it was determined that the original survey location would not be best for oil spill response. The team recommended that a better survey location was at the junction of Platts Mills Road and Route 8. The close proximity of private residences to the river could be a factor when planning for and conducting booming and oil recovery operations in this area. The team identified the following characteristics of the site and potential for response activity on the river: - This part of the river is fairly calm and wide though access is more difficult as the ideal staging/deployment location is along a residential street with limited room for staging. - Staging is slightly more favorable a short distance upriver, but the river is rockier and would be less conducive to on-water tactics deployment.
STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
DV/SR at the location adjacent to Route 8 along Platts Mills Road. CB tactic at the culvert that drains into the river along the eastern bank.

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SITE: Waterbury Point (NR-03A) Confluence of Mad River and Naugatuck River

SURVEY TEAM
LeClerc, Way, Chau, Duponte, Hall, Zak, Popovich
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
This location is directly behind Waterbury Skating Center (Roller Magic). The best access to the river is from the parking lot of the skating center so any activity that occurs in this area would need to be coordinated with the owner of the property owner. This location is at the confluence of the Mad River and the Naugatuck River. The Mad River is where anything spilled along Route 84 would drain, which then empties into the Naugatuck River. There have been multiple response efforts staged at this location including recovery of spills from a treatment plant upstream. The team identified the following characteristics of the site and potential for response activity on the river: - There is plenty of area for staging and shore side recovery in the skating center parking lot. - Unless the area is experiencing significant flooding, equipment staging can take place along the river bank but the shoreline is largely smooth rocks and cobble so responders must proceed cautiously. - Some sensitive ecological areas were observed in this area including swan nests. It would be good to protect those with passive recovery boom/sorbent pads. - Fast moving water was observed in this area of the river.
STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River. Contain oil spilled in the Mad River and stop it from entering the Naugatuck River.
RECOMMENDED TACTICS
DV/SR at the Skating Rink parking lot. DV/SR and Exclusion tactics (EX) at the confluence of the Mad River and the Naugatuck River.

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SITE: Chase Brass Point (NR-02) Naugatuck River at the Antique Railroad Bridge

SURVEY TEAM
LeClerc, Way, Duponte, Hall, Zak, Popovich
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
This location is the last location before Waterbury, and is likely the last location to intercept spilled oil prior to impacting the town. This location features a manmade stone and concrete diversion wall/bank (built by the ACOE) many years ago to divert the flow of the river to the west and south. A rail line is located here with infrequent freight runs to the industrial park that is nearby (and was under construction at the time of this survey). This industrial complex is also a potential source of spills. The team identified the following characteristics of the site and potential for response activity on the river: - The river in this area runs smoothly and pools making it a good recovery/collection area. - There is a significant drop from the shore to the river, which would require a strong vac truck to pump recovered oil from the river. - There is plenty of staging by the railroad tracks, but access to the river is limited to directly around the tracks.
STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
DV/SR at the antique railroad bridge on the east side of the river.

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SITE: Torrington (NR-01) Naugatuck River behind John Torro Sports Complex

SURVEY TEAM
LeClerc, Way, Duponte, Hall, Zak, Popovich, Towey
SPILL RISKS
Incidents from upstream bridges, railroad, roadways or shoreside facilities along the Naugatuck River.
DISCUSSION
This location features an ample staging area in the parking lot next to the sports complex. The river in this area is used extensively for recreational fishing, and there were 3 fishermen at the site during the survey. There are flood control dams above stream that could be opened to flush contaminants out of the river or could be closed to stop contaminants from entering this area. There is a small overflow dam at the end of the parking lot leading to shallow rapids, which would cause any oil products to emulsify if they passed over it. The team identified the following characteristics of the site and potential for response activity on the river: - The river in this area is relatively narrow (no more than 8-10' wide) with vegetated flats along each side. - There are some large boulders in the river that could complicate collection at this location. - Collection should be done above the overflow dam but below the sports complex. - There is a culvert that empties into the river on the western bank of the river.
STRATEGIC OBJECTIVE
Intercept, contain, and collect oil flowing downstream and protecting downstream reaches in the Naugatuck River.
RECOMMENDED TACTICS
DV/SR at the edge of the river on the banks. CB tactic to stop contaminants from entering the river.