Northwest Division

Scenic Subdivision

Reference to:
NWACP Geographical Response Plan

Reference the Entire Document as soon as possible to consult with Agency Responders. The full document can be found at:
http://www.ecy.wa.gov/programs/spills/preparedness/GRP/Introduction/introduction.htm

Scenic Subdivision MP 1650 – 0
Ver. 4/8/13

Map Key

Mile Post Markers (BNSF)

Geographic Response Plans (GRPs)

Creek/Slough/River Crossing

Creek/Slough/River/Bay Crossing and Adjacent

Creek/Slough/River Adjacent

Bay/Sound Adjacent

Lake Adjacent

Area of detail (red dashed rectangles)

Scenic Subdivision GRP Links

MP 1650 – MP 1660: Project Specific Site Plans-Upper Columbia (RM) GRPs

MP 1660 – MP 1761: No Current GRPs

MP 1761 – MP 1783: Snohomish River (SNH and PIL) GRPs

MP 1774 – MP 1783: Snohomish River (ALL, UNS and STM) GRPs

MP 1774 – MP 1783: Snohomish River (EB1, EB2, EB3, EB4, EB5 and EB8) GRPs

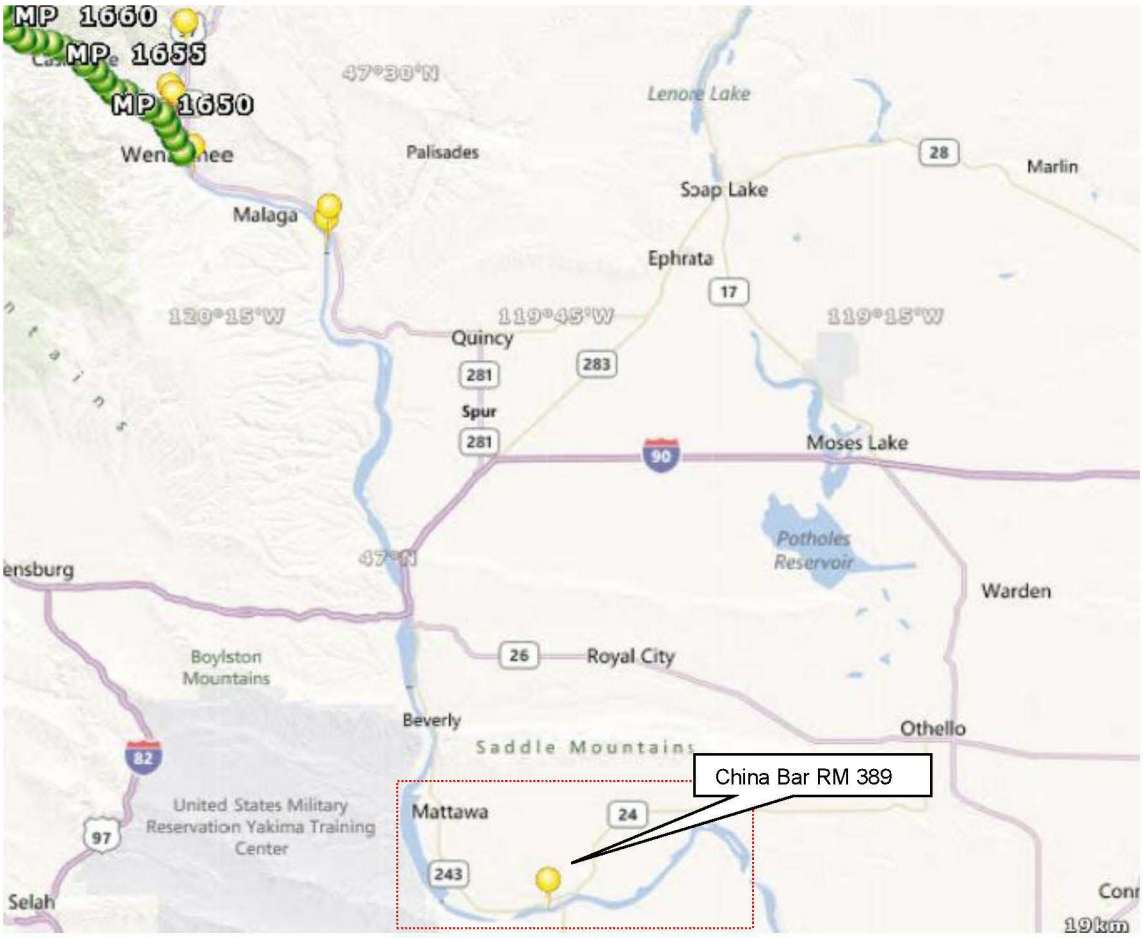
MP 1774 – MP 29: North Central Puget Sound (NC) GRPs

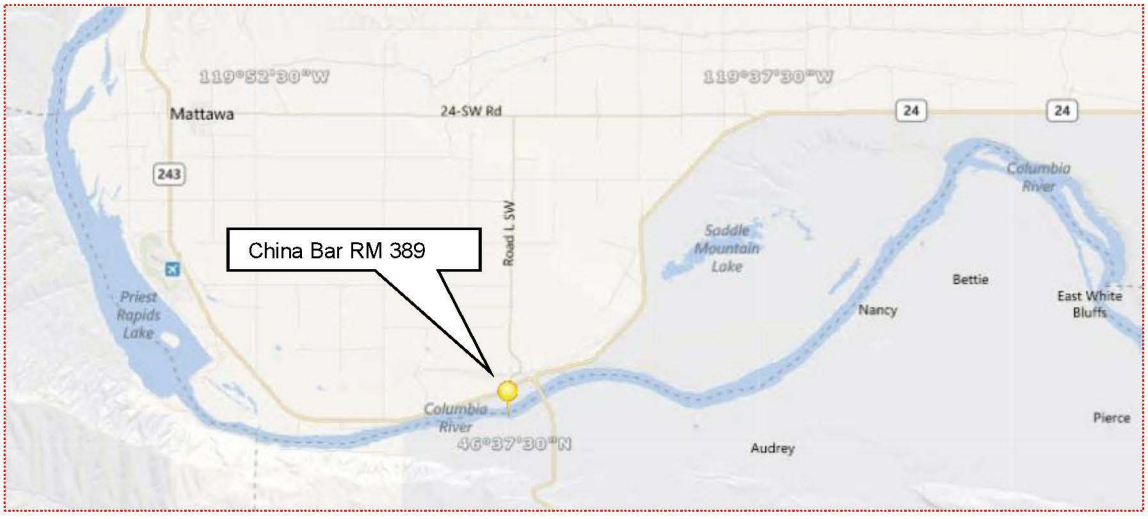
M MP 28 – MP 22: Admiralty Inlet (AI) GRPs

MP 18 – MP 0: Central Puget Sound (CPS) GRPs

http://www.ecy.wa.gov/programs/spills/preparedness/GRP/Introduction/introduction.htm

Scenic Subdivision MP 1650 – 1660 A





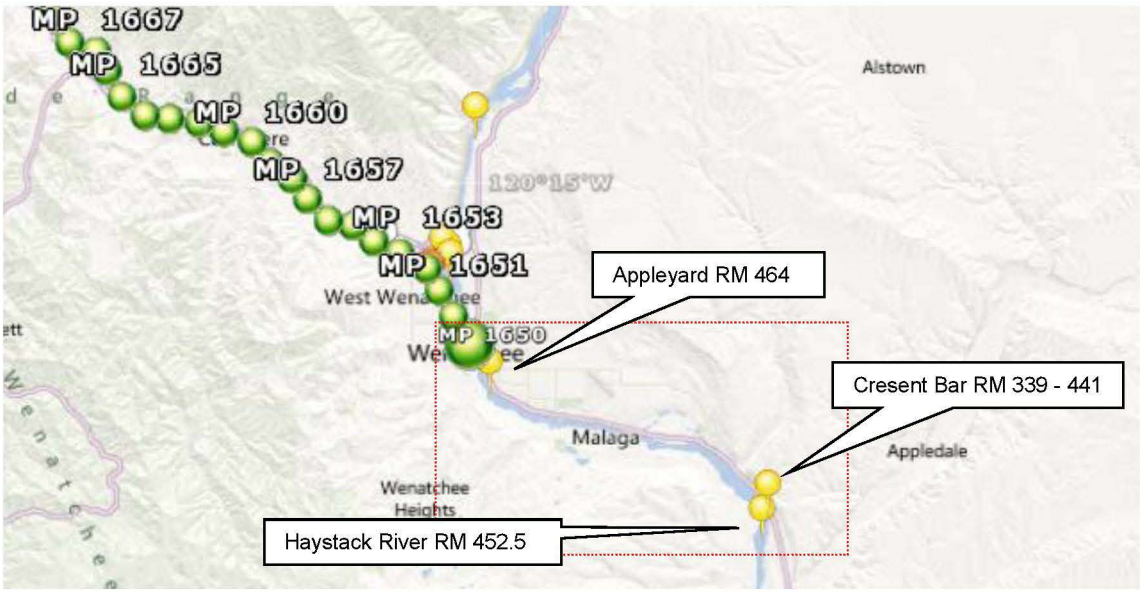
Scenic Subdivision MP 1650 – 1660 A

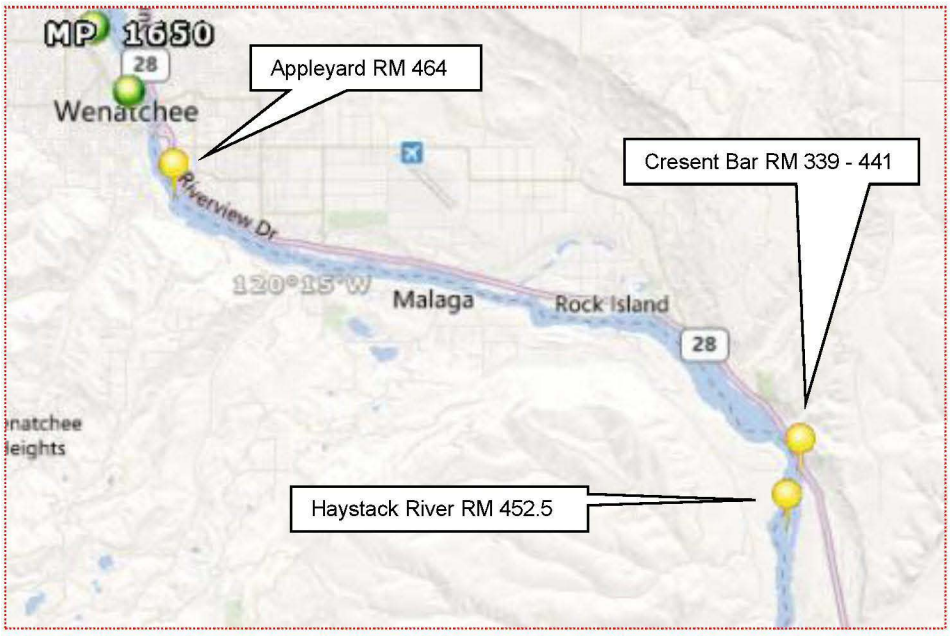
Priest Rapids
Grant Co. PUD
Gale Ham
(509) 754-6624
gham@gcpud.org

Strategy location	Strategy Maps	Strategy Maps	Quantity of Boom	Type of Strategy
China Bar-River Mile (RM) 389	7.5' USGS Quads	USGS Orthophoto	200	exclusion

http://www.ecy.wa.gov/programs/spills/csr_sri/PSSP/pssp_priestrapids.html

Scenic Subdivision MP 1650 – 1660 B





Scenic Subdivision MP 1650 – 1660 B

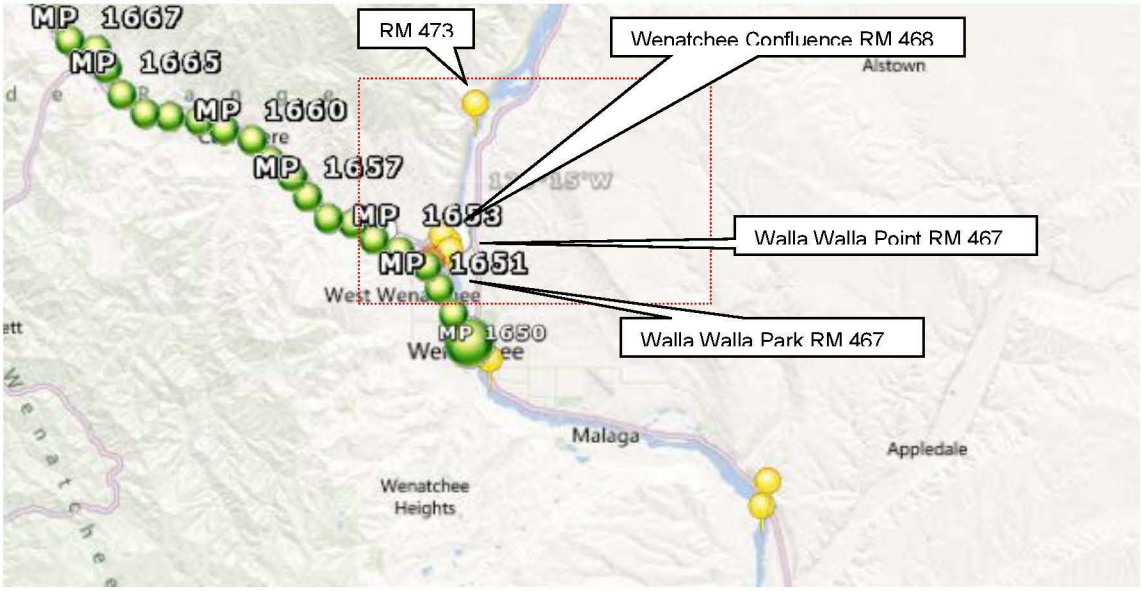
Rock Island
Chelan Co. PUD
Steve Sembritzky
(509) 661-4474

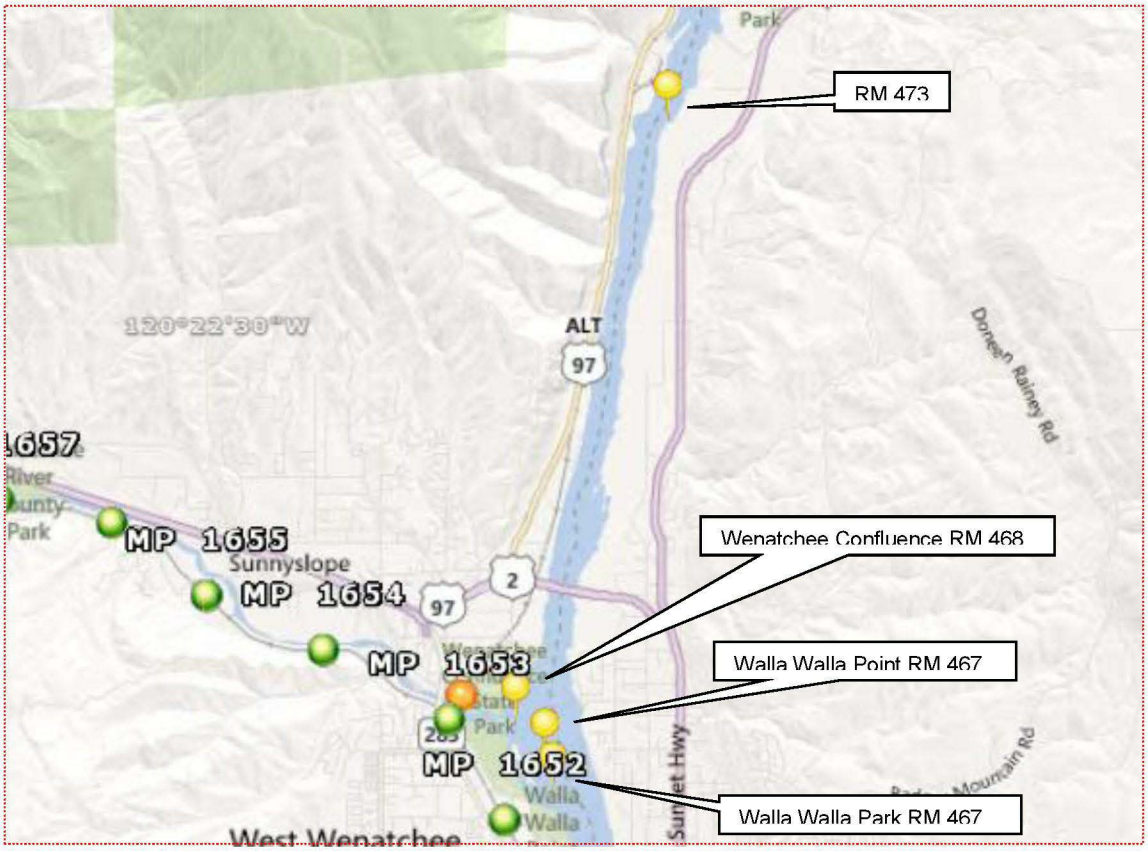
Strategy location	Strategy Maps	Strategy Maps	Quantity of Boom	Type of Strategy
6. RM 464 Appleyard (seasonal)	7.5' USGS Quads	USGS Orthophoto	300 feet	exclusion/collection
3. RM 439 Crescent Bar	7.5' USGS Quads	USGS Orthophoto	100 feet	deflection
4. RM 441 Crescent Bar	7.5' USGS Quads	USGS Orthophoto	200 feet	collection
1. RM 452.5 Haystack River (left)	7.5' USGS Quads	USGS Orthophoto	100 feet	collection

http://www.ecy.wa.gov/programs/spills/csr_sri/PSSP/pssp_rockisland.html
Above link includes: RM 439, 441, & 452.5

http://www.ecy.wa.gov/programs/spills/csr_sri/PSSP/pssp_rockyreach.html
Above link: RM 464

Scenic Subdivision MP 1650 – 1660 C





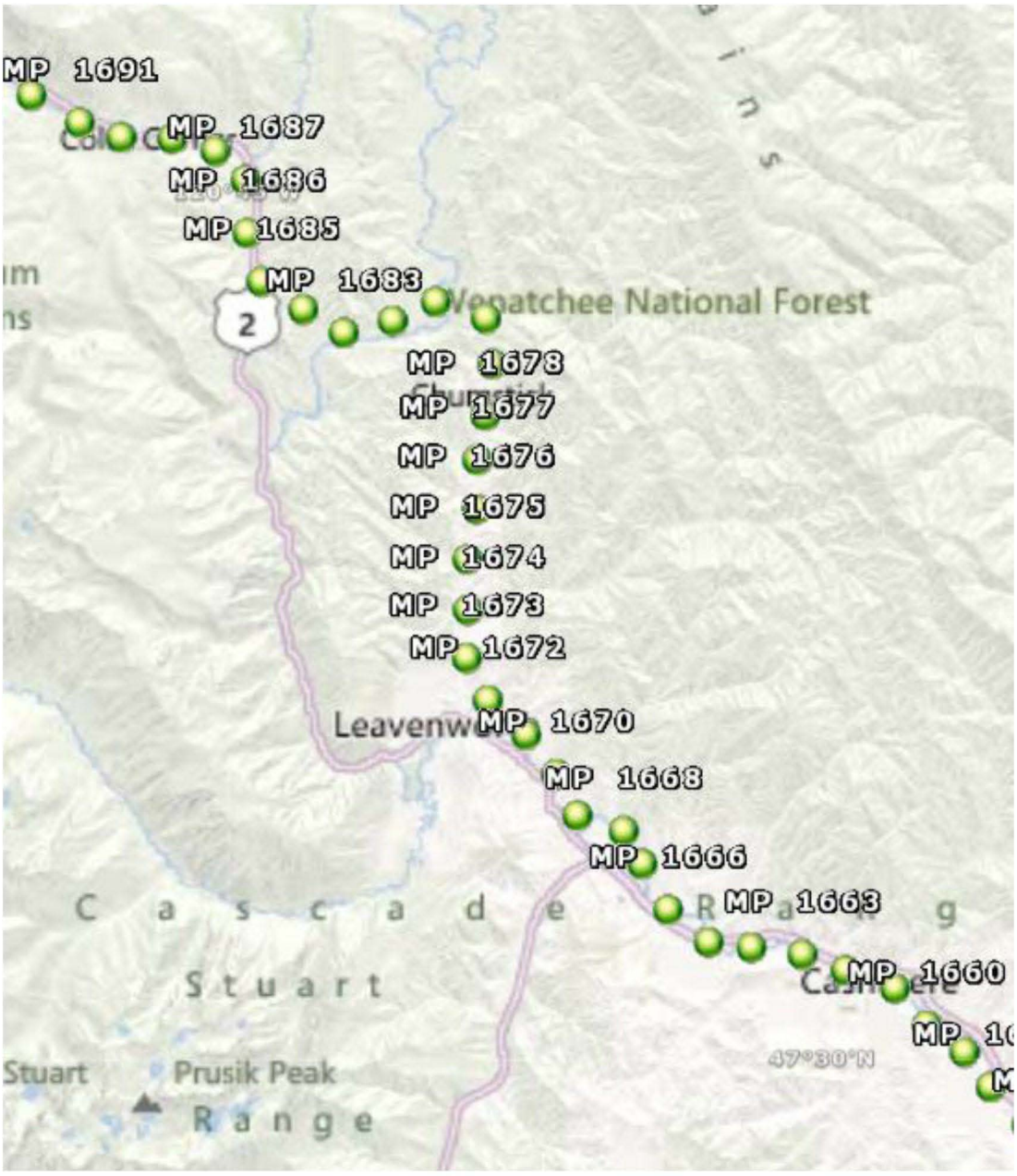
Scenic Subdivision MP 1650 – 1660 C

Rocky Reach
Chelan Co. PUD
Steve Sembritzky
(509) 661-4474

Strategy location	Strategy Maps	Strategy Maps	Quantity of Boom	Type of Strategy
RM 473 (right)	7.5' USGS Quads	USGS Orthophoto	200 feet	collection/deflection
RM 468 Wenatchee River conflue	7.5' USGS Quads	USGS Orthophoto	150 feet	exclusion
RM 467 Walla Walla Point	7.5' USGS Quads	USGS Orthophoto	100 feet	deflection
RM 467 Walla Walla Park	7.5' USGS Quads	USGS Orthophoto	50 feet	collection

http://www.ecy.wa.gov/programs/spills/csr_sri/PSSP/pssp_rockyreach.html

Scenic Subdivision MP 1660 – 1691



No current GRPs MP 1660 – MP 1691

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Scenic Subdivision MP 1691 - 1729

No current GRPs MP 1691 – MP 1729

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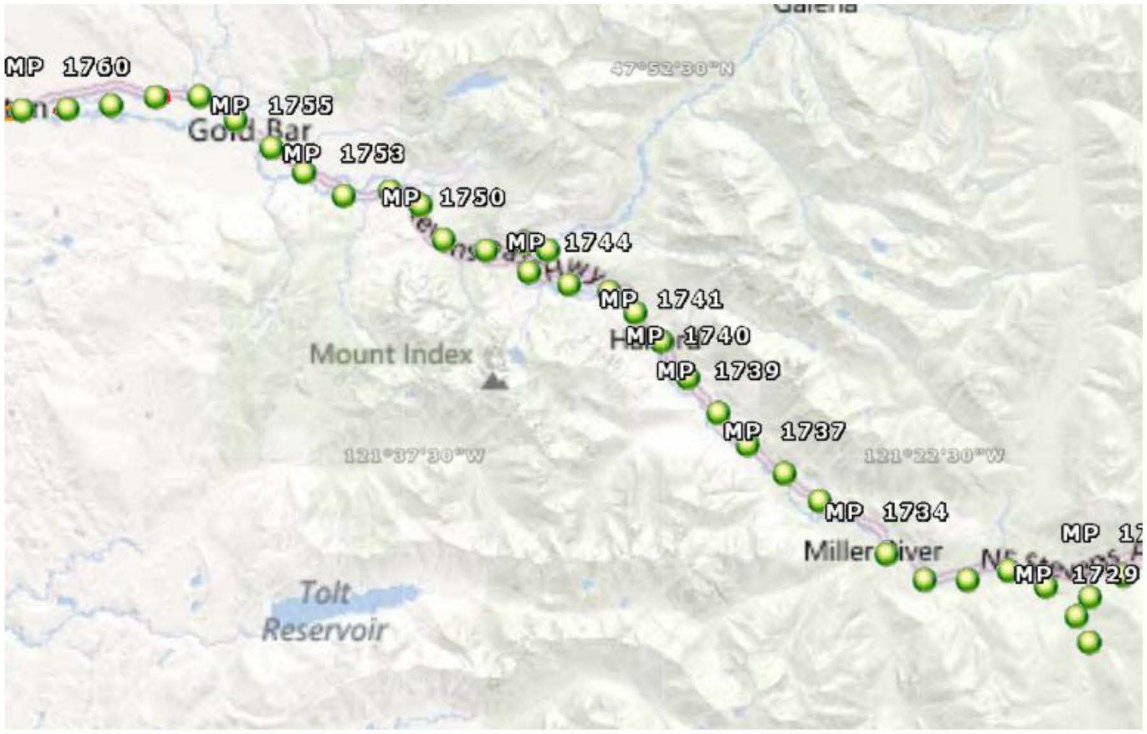
Scenic Subdivision MP 1729 - 1760



No current GRPs MP 1729 – MP 1760

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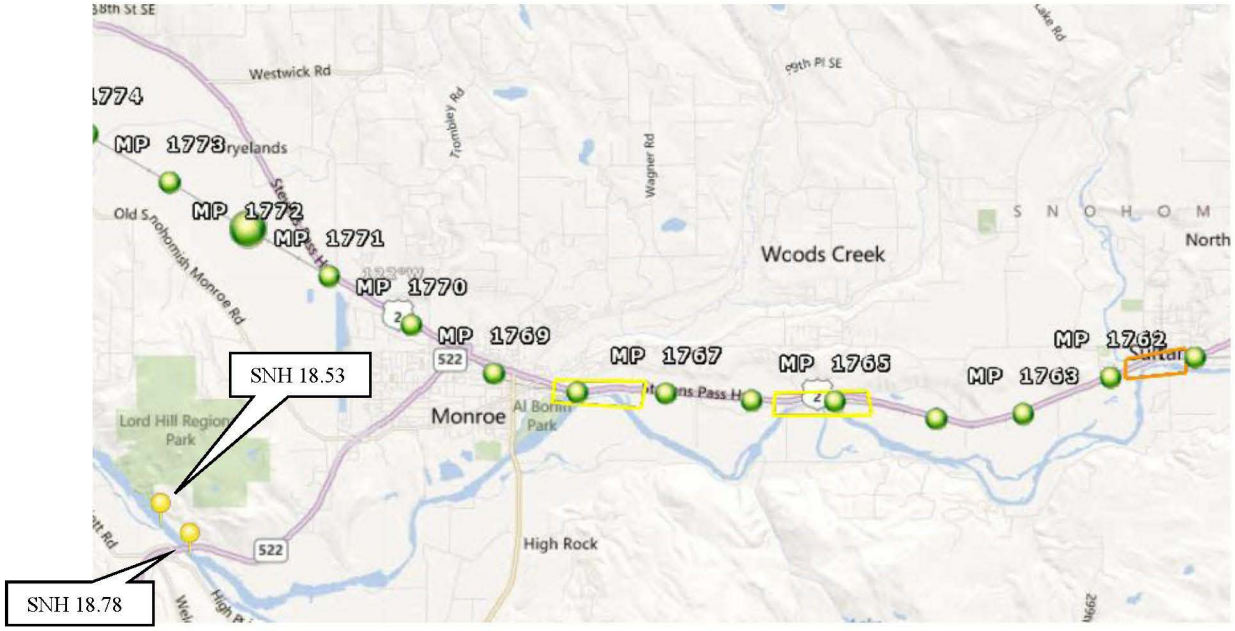
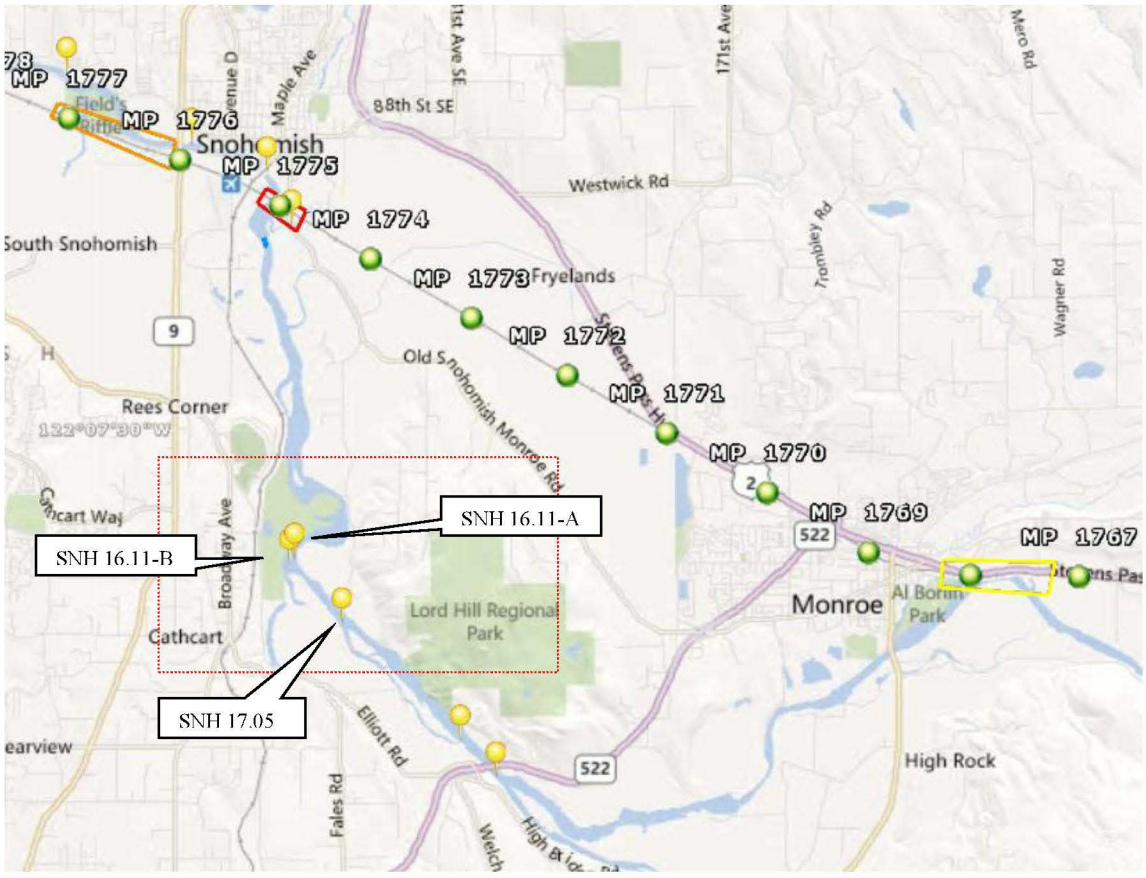
Scenic Subdivision MP 1761 - 1773



Scenic Subdivision MP 1761 - 1773

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
SNH-18.53	Snohomish River North of State Rte 522 Bridge N 47° 50.116' W 122° 3.222' map page 4-13	Deflection - Deflect product away from left bank unnamed side channel.	450ft B3 - River Boom, or other appropriate type	Use trees for anchor 70 yds upstream of inlet. Depending on conditions could either place boom across left bank channel mouth, or place a deflection boom starting at the upstream natural anchor into channel at a suitable angle (35°) to deflect water away from the channel. Estimated time of implementation is one halfhour. Jet boat is required to access site.
SNH-18.78	Snohomish River near Old Tester Rd N 47° 49.964' W 122° 2.880' map page 4-13	Collection - Collect product from Snohomish River near Route 522 bridge.	1700ft B3 - River Boom, or other appropriate type, 3600ft Sorbent Boom	Deploy hard boom from trees on southeast (left) bank upstream of bridge to intermediate bridge pier, and bridge pier to sand bar on northeast bank (approximately 1200 ft). Continue boom back upstream to protect shoreline. Use sorbent material on both sides of boom for sheen control. Maintain 45° boom angle, or suitable angle for current. Vehicles cannot access bank, so product must be pumped (15-20 ft head) using hose (~400 ft) and 3" diaphragm pump to vac trucks. Boom deflectors can be substituted for rope. May use water bladder for forming to side channels. Contact immediately or before entering: Diane Baily, Snohomish County Parks Department, (W) 425-388-6622, Property Access, M-F 8-5, during extreme emergency can cut lock if gate acccess contact is not available.

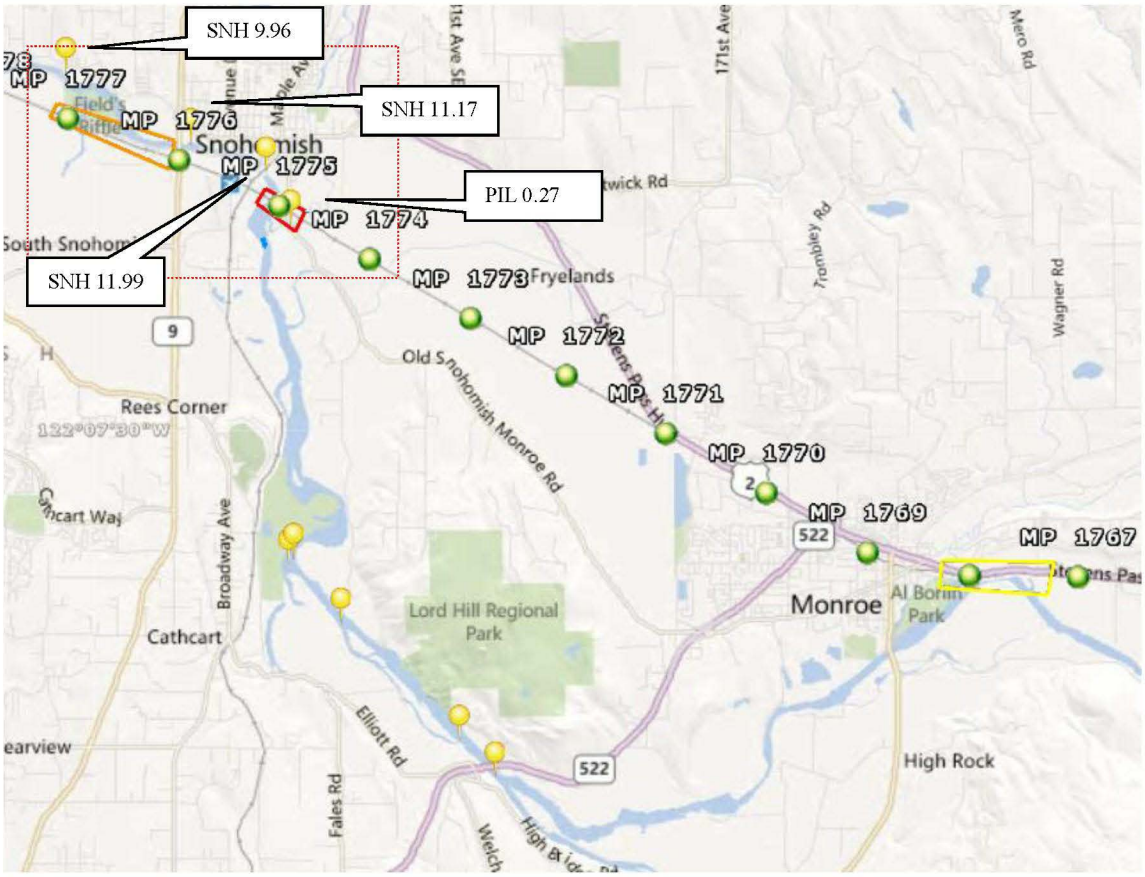
Scenic Subdivision MP 1767 – 1777 A

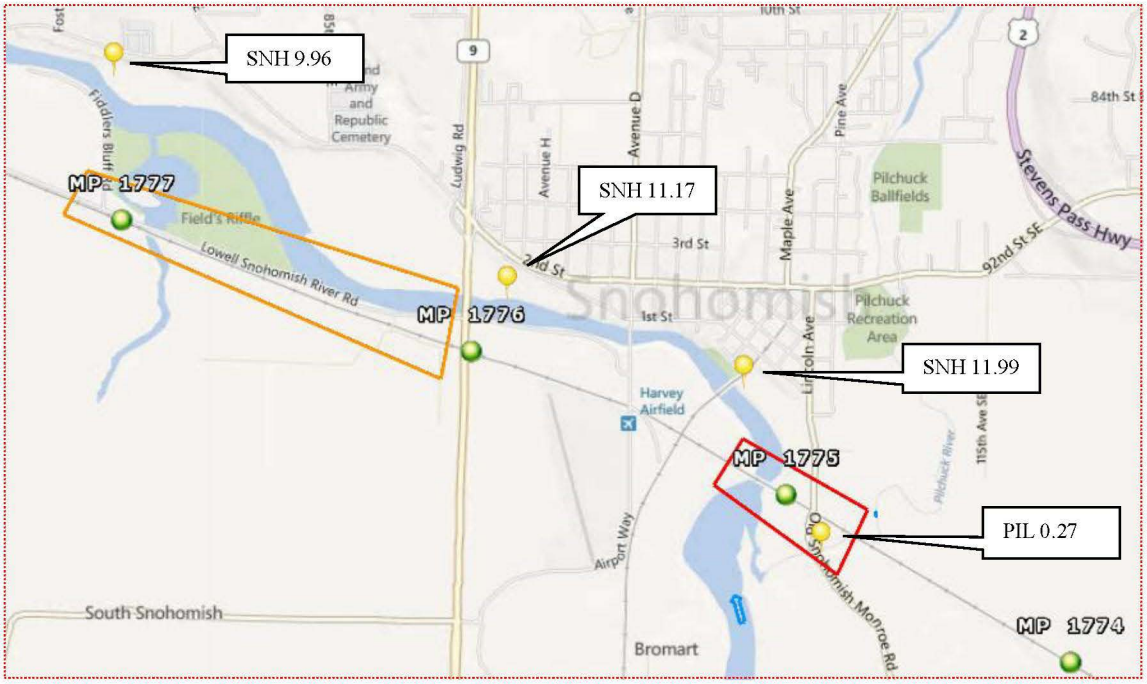


Scenic Subdivision MP 1767 – 1777 A

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
SNH-17.05	Snohomish River near Shorts School Rd (S) N 47° 50.990' W 122° 4.632' map page 4-13	Exclusion - Exclude product from moving upstream into back channel.	1ft B3 - River Boom, or other appropriate type	Deploy boom across channel mouth. Exclusion may not be necessary during low tide/high flow because flow moves downstream too fast.
SNH-16.11-A	Snohomish River near Shorts School Rd (N) N 47° 51.518' W 122° 4.872' map page 4-13	Collection, deflection - Cascade booms to collection site at RB.	850ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy upstream deflection boom to deflect product to collection boom, anchor using 2 SARCA and check angle based on current velocity. Deploy collection boom downstream of deflection boom to collect at RB. Boom should extend from RB beach across 1/3 to 1/2 of river (1/2 width requires ~750 ft), tie into SARCA in stream anchor. Deploy ~ 120 ft of boom along beach at collection area for shoreline protection. Use sorbent boom for sheen control on downstream side. Estimated to take 2 hours to deploy. Use in conjunction with SNH-16.11-B and A; deploy SNH-16.11-A first.
SNH-16.11-B	Snohomish River near Shorts School Rd (N) N 47° 51.518' W 122° 4.872' map page 4-13	Collection - Collect product at LB.	650ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Use in stream SARCA anchor, bring boom back to shore, anchor to natural anchors. Extend boom up shoreline (~90 ft) for protection in collection area. Use lines to maintain maximum boom angle. Use sorbent boom downstream of river boom for sheen control. Use in conjunction with SNH -16.11-A to cover entire river. Could continue shoreline protection boom to exclude product at 16.11-C.

Scenic Subdivision MP 1767 – 1777 B

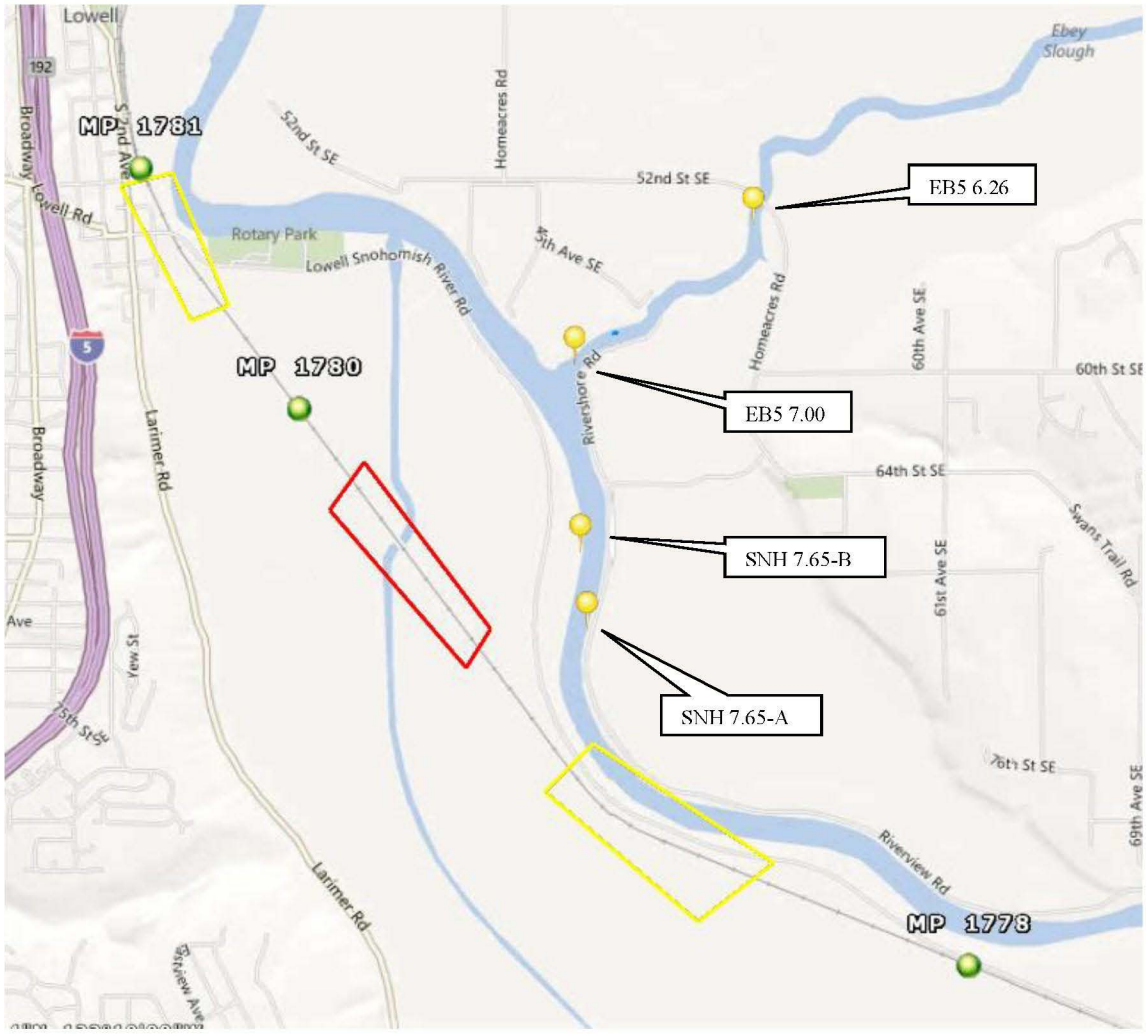




Scenic Subdivision MP 1767 – 1777 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
PIL-0.27	Pilchuck River at Old Snohomish Monroe Rd N 47° 54.108' W 122° 5.245' map page 4-12	Initial Containment - Collect product in Pilchuck River at river left.	210ft B3 - River Boom, or other appropriate type	Access river from the south side. Cross river using rope to pull boom upstream. Anchor boom from rock off point to eddy just downstream of path (west of bridge). Collect product to road. Pumps may be used in place of vac truck. Raft, Jon boat, or belly boat recommended. Clearing of knot weed on south bank will be required in preparation for emergency response.
SNH-9.96	Larimer Creek near Fiddlers Bluff Rd N 47° 55.213' W 122° 7.830' map page 4-12	Exclusion - Exclude product from wetland/open water complex.	350ft B3 - River Boom, or other appropriate type	Exclude the wetland complex by deploying an exclusion boom across each opening (openings are approximately 250 ft and 100ft). Booms can be deployed by boat, or from the bank on Fiddler Bluff Rd. Booms should be anchored in the middle of the channel openings to maintain shape - wider opening (west) may require 2 anchors. Estimated time for strategy deployment is 1 hour. Site is most threatened during incoming tide when river flows into wetland. Punt boat is reccommended.
SNH-11.17	Snohomish River at State Hwy 9 Bridge N 47° 54.690' W 122° 6.527' map page 4-12	Collection, diversion - Collect product on north side of Hwy 9 bridge.	1800ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy boom by boat using paravane. Anchor to rock outcrop of bridge pier on downstream end and big leaning tree (RB) as anchor on upstream end. Modify boom angle as necessary for flow and tide. Extend boom up LB for shoreline protection during collection at low tide and along RB for protection during collection during high tide. Back up boom with sorbent boom for sheen control as necessary. Recover from gravel operation on opposite (right) bank. Must close down one lane of Hwy 9 for staging. If a boat is not available a boom vane could allow boom to be installed without a boat.
SNH-11.99	Snohomish River at Cady Park N 47° 54.564' W 122° 5.548' map page 4-12	Collection - Collect product in Snohomish River.	1670ft B3 - River Boom, or other appropriate type, 300ft Sorbent Boom	Deploy from LB to bridge pier (~1200 ft) and bridge pier to boat launch (225 ft). Extend boom back up shore at both shoreline anchor points (~ 120 ft) to collect during low and high tide. In low tide collect at boat launch. During high tide collect at from opposite shore. Install liner system to protect sandy banks. Universal skimmer may be used in place of brush skimmer. Estimated time for strategy implementation is 3hrs with a trained crew. Work area at boat launch is approximately 30 ft x 120 ft during low/middle tide. Keep boat ramp free and clear.

Scenic Subdivision MP 1774 – MP 1783 A



Scenic Subdivision MP 1774 – MP 1783 A

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB5-6.26	Ebey Slough near Home Acres Rd Bridge N 47° 56.909' W 122° 9.636' map page 4-11	Collection -Collect product at river left.	750ft B3 -River Boom, or other appropriate type, 675ft Sorbent Boom	Deploy boom across Ebey Slough to LB and up bank for shoreline protection. Bring boom across to anchor using paravane. Tie boom off to large maple tree just upstream of large rounded bush. Access and collection area at private deck. Deploy sorbent boom on downstream side of containment boom for sheen control. Contact immediately or before entering: Stephan and Katy Haugland, (W) 425-783-0307
EB5-7.00	Ebey Slough at Divergence from Snohomish River N 47° 56.385' W 122° 10.121' map page 4-11	Exclusion, collection - Exclude product from Ebey Slough during low tide, or collect during high tide (upstream flow) at Snohomish River RB.	1200ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy boom from water across entrance to Ebey Slough. Tie-off to pilings upstream of large maple tree on RB (east bank), wrap trees with rubber for protection. Use 5,800 pound winch hooked up to battery to tighten boom across Slough mouth. Use 20" contractor boom (lake boom: 8 float, 18 skirt) and snatch block. Estimated time of deployment is 2hrs. Alternatively, could boom bank to bank at Slough mouth and in chevron configuration in River and collect using a marco skimmer.
SNH-7.65-A-Low Flow	Snohomish River at Lowell-Snohomish River Rd S N 47° 55.994' W 122° 10.263' map page 4-11	Collection, diversion - Divert the full river width and collect at LB.	2100ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	When there is low current velocity deploy boom across the full river width, from beach area to opposite bank telephone post nr red bldg (approximately 2000 ft of boom). Use skimmer to collect product to Vac Truck. Place 100ft of boom along LB for protection at collection area. Use sorbent boom for sheen control on downstream side.
SNH-7.65-B-High Flow	Snohomish River at Lowell-Snohomish River Rd S N 47° 55.994' W 122° 10.263' map page 4-11	Collection, diversion - Divert approximately 1/3 of the river width and collect at LB.	700ft B3 - River Boom, or other appropriate type, 300ft Sorbent Boom	When there is high current velocity take 1/3 of the river width (should capture majority of product due to location on outside river bend). Deploy boom from beach area to in stream SARCA anchor. Use skimmer to collect product to Vac Truck. Place 100ft of boom along LB for protection at collection area. Use sorbent boom for sheen control on downstream side.

Scenic Subdivision MP 1774 – MP 1783 B

Scenic Subdivision MP 1774 – MP 1783 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB5-4.31	Ebey Slough near Fobes Rd N 47° 57.819' W 122° 7.728' map page 4-11	Exclusion, collection -Contain spills that enter side channel from Hwy 2 or exclude side channel from product in Ebey Slough.	150ft B3 -River Boom, or other appropriate type, 600ft Sorbent Boom	Stake hard boom across mouth of Hwy 2 feeder stream. Line the three fingers of the channel with sorbent boom. Jon (punt) boat or boat is recommended. Contact immediately or before entering: Diane Baily, Snohomish County Parks Department, (W) 425-388-6622, Property Access, M-F 8-5, during extreme emergency can cut lock if gate acccess contact is not available.
EB5-5.00	Ebey Slough near Skipley Rd N 47° 57.319' W 122° 8.301' map page 4-11	Exclusion -Exclude product from side channel.	100ft B3 -River Boom, or other appropriate type, 100ft Sorbent Boom	Anchor from shore to shore across side channel using natural anchors upstream of tide gate. Contact immediately or before entering: Diane Baily, Snohomish County Parks Department, (W) 425-388-6622, Property Access, M-F 8-5, during extreme emergency can cut lock if gate acccess contact is not available.
SNH-4.81	Snohomish River at Lowell-Snohomish River Rd (N#1) N 47° 57.772' W 122° 11.306' map page 4-11	Exclusion -Keep product from entering Snohomish River.	150ft B3 -River Boom, or other appropriate type, 150ft Sorbent Boom	Place hard boom across side channel. Use line to connect boom to natural anchors. Pack side channel with sorbent boom as back-up. Strategy should be tended due to tidal flux and obstacles.

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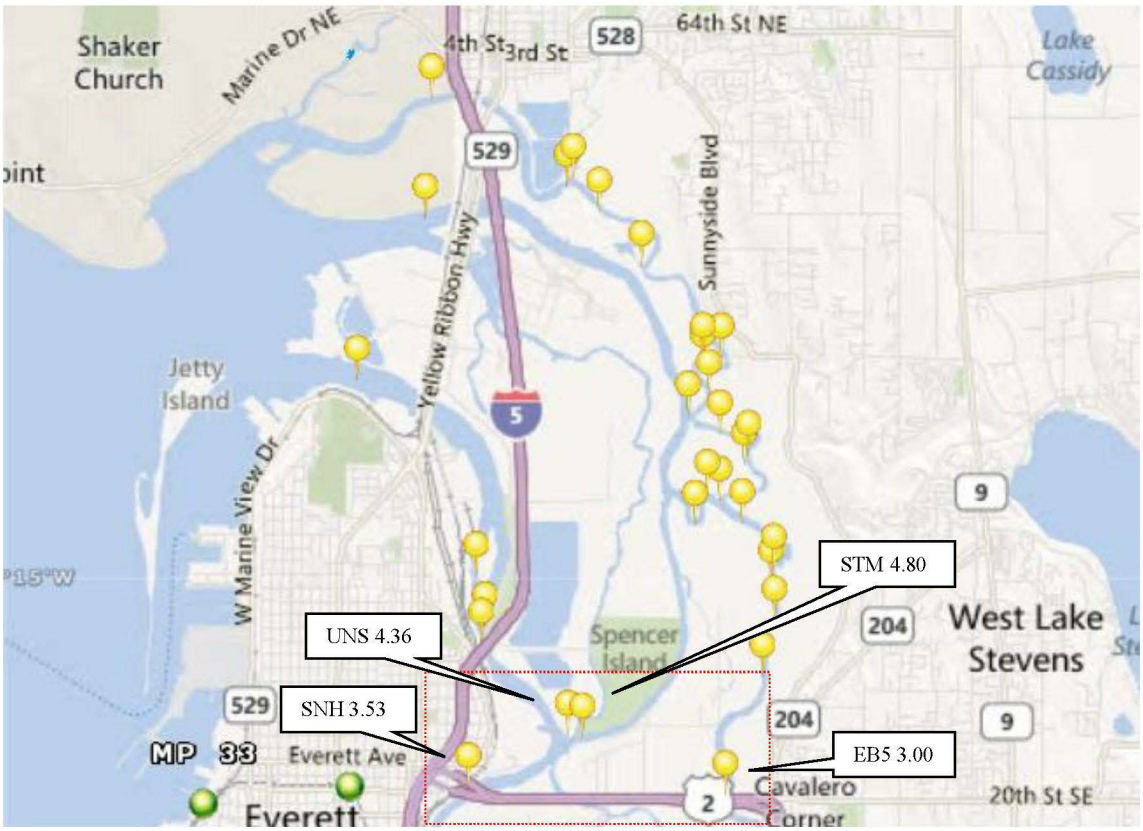
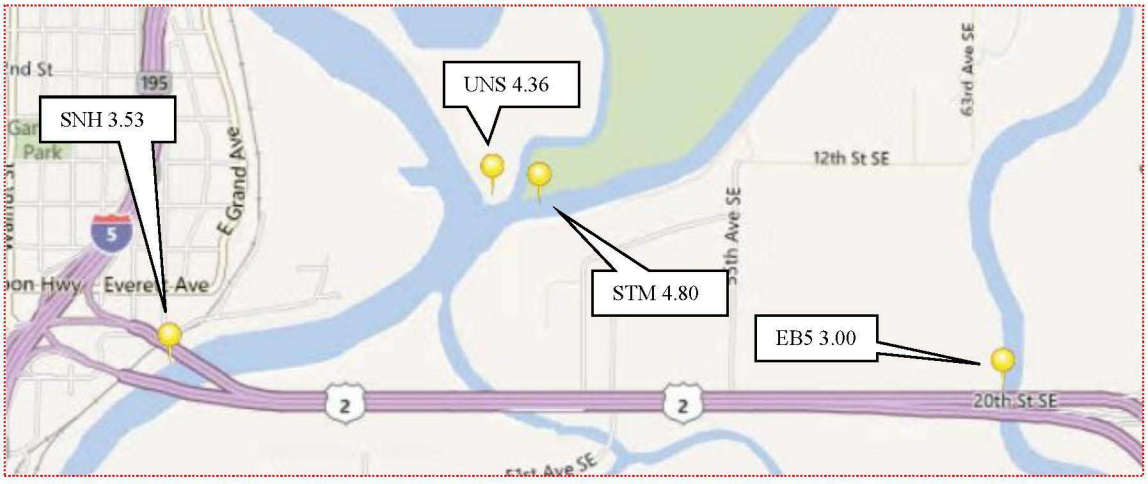
Scenic Subdivision MP 1774 – MP 1783 C

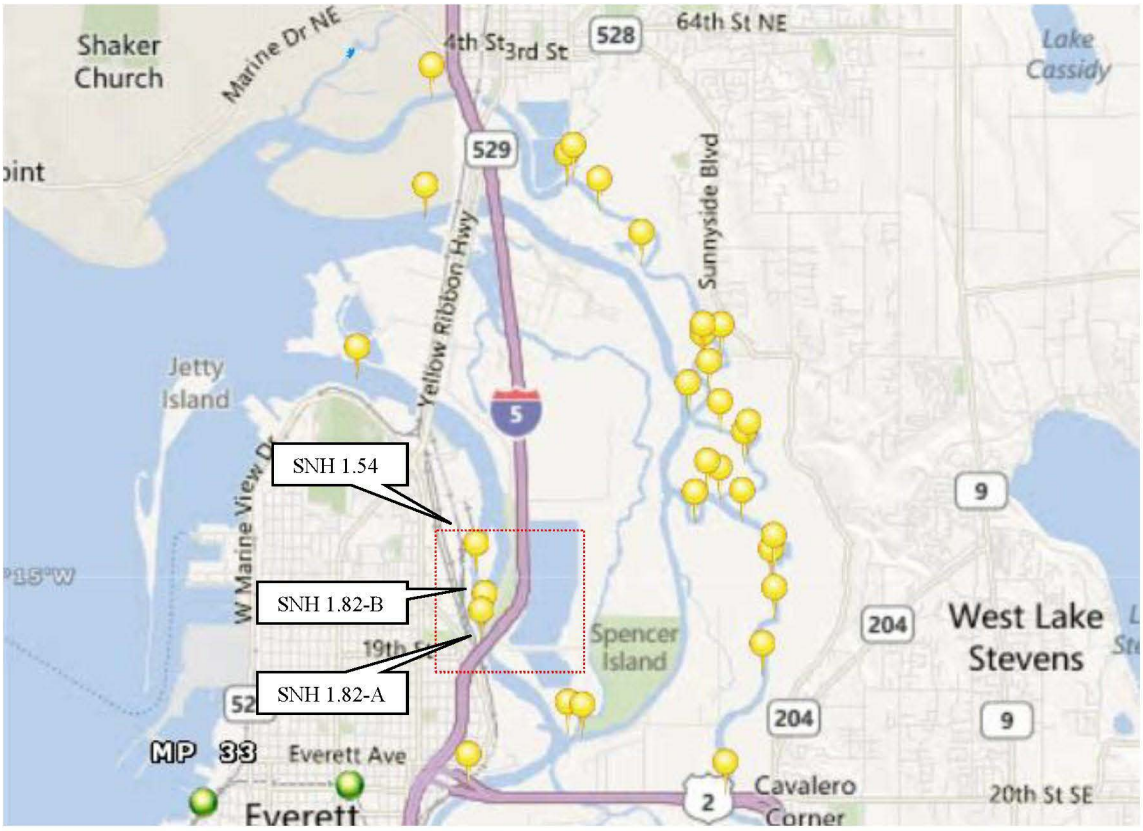


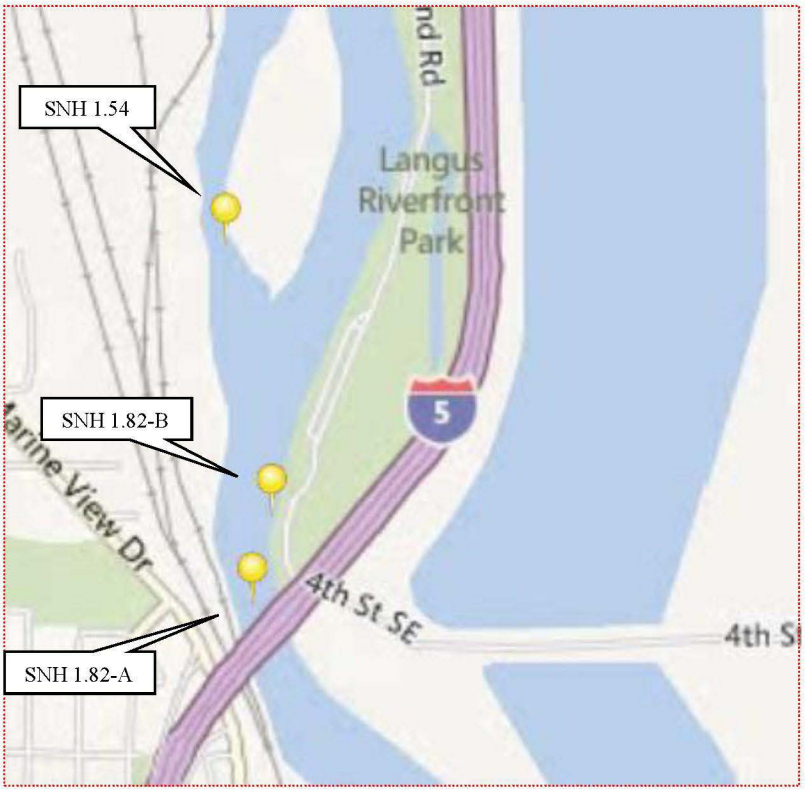


Scenic Subdivision MP 1774 – MP 1783 C

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB5-3.00	Ebey Slough at Hwy 2 Bridge N 47° 58.690' W 122° 8.717' map page 4-11	Collection -Collect product at river left bank (LB) just north of bridge.	825ft B3 -River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy from south bridge pier (second pier from west) to most north-west bridge pier and west bank. Then from east bank to S. bridge pier (second pier from west). Use hand bridle and lines to manage boom angle. Use boom for shoreline protection in collection area. Collect material and pump to Vac Truck. If incoming tide is strong, can use strategy in reverse and collect product on RB.
STM-4.80	Steamboat Slough at divergence from Union Slough N 47° 59.042' W 122° 9.905' map page 4-10	Collection - Collect product from Steamboat Slough. Recover product and remove by boat/landing craft.	600ft B3 - River Boom, or other appropriate type, 600ft Sorbent Boom	Deploy boom across Steamboat Slough from beach on southern bank to point between Union Slough and Steamboat Slough. Strategy should be effective for high and low tide with appropriate anchoring and shoreline protection. Collect at LB for high tide and recover product in 40 gallon drums and remove by boat or landing craft. Collect at RB during low tide using Vac Truck or boat. For shoreline/beach protection, lay tarp and anchor in.
UNS-4.36	Union Slough at Divergence from Steamboat Slough N 47° 59.075' W 122° 10.045' map page 4-10	Exclusion -Exclude product from wetland/levee break area in Union Slough.	360ft B3 -River Boom, or other appropriate type, 300ft Sorbent Boom	Deploy boom across entrance to Union Slough. Could potentially use beach area for containment on LB. Strategy to be implemented by boat. Contact immediately or before entering: Diane Baily, Snohomish County Parks Department, (W) 425-388-6622, Property Access, M-F 8-5, during extreme emergency can cut lock if gate acccess contact is not available.
SNH-3.53	Snohomish River at Hwy 2 Bridge N 47° 58.764' W 122° 10.998' map page 4-11	Collection - Collect product using 2 Marco Skimmers	1950ft B3 - River Boom, or other appropriate type	Hook booms to 3 east bound Hwy 2 bridge piers w/ cable slings. Boom back to marco skimmers under west bound Hwy 2. Use 1050 ft boom for western skimmer and 900 ft boom for eastern skimmer. Install western skimmer first, on outside bend. Contact immediately or before entering: William Wick, Wick Towing Inc., (W) 425-252-6586

Scenic Subdivision MP 1774 – MP 1783 D

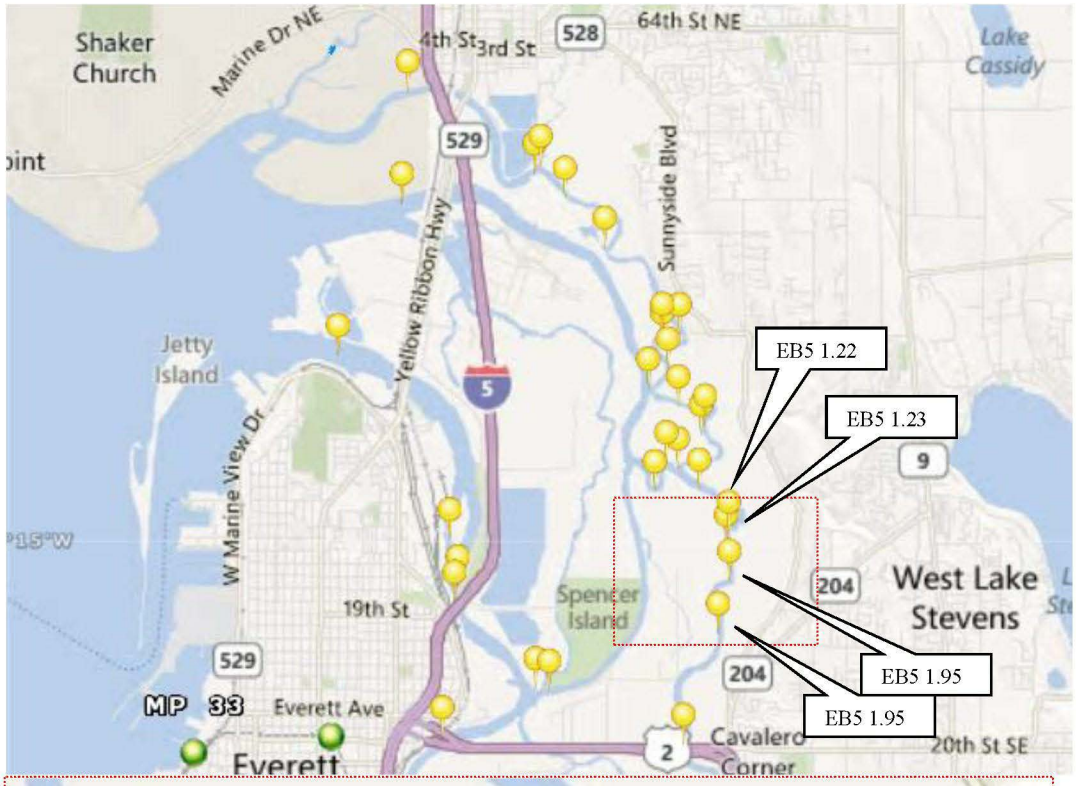




Scenic Subdivision MP 1774 – MP 1783 D

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
SNH-1.82 -A EbbTide	Snohomish River at I-5 N 47° 59.656' W 122° 10.777' map page 4-10	Collection, diversion - Divert river at inside of bend to collection area at RB at low tide.	1125ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	During low tide when river velocity is high, only divert 1/3 of river width. Deploy from eastern bridge pier with bridle to paravane, to boom, to RB just upstream of rowing boathouse. Anchor using #12 SARCA. A closed chevron to a marco skimmer may be applicable at this site but would need to be tested during low flow.
SNH-1.82 -B- Flood Tide	Snohomish River at I-5 N 47° 59.656' W 122° 10.777' map page 4-10	Collection - Collect product in Snohomish River during high tide.	1380ft B3 - River Boom, or other appropriate type, 400ft Sorbent Boom	Deploy boom in closed chevron under bridge and attach 2 marco skimmers at V apex for product collection. Will need 2 work boats in addition to skimmers. During low tide, may be able to reverse this configuration and continue collection, but it should be tested.
SNH-1.54	Snohomish River across from Langus Riverfront Park N 48° 0.006' W 122° 10.754' map page 4-10	Exclusion - Exclude product from draws and islands across river from boat launch.	1050ft B3 - River Boom, or other appropriate type, 300ft Sorbent Boom	Deploy boom across draws on opposite bank from boat launch. Implement strategy from the water. Recommend using 20-lb danforths to anchor boom except at north-most bank where natural anchors are available.

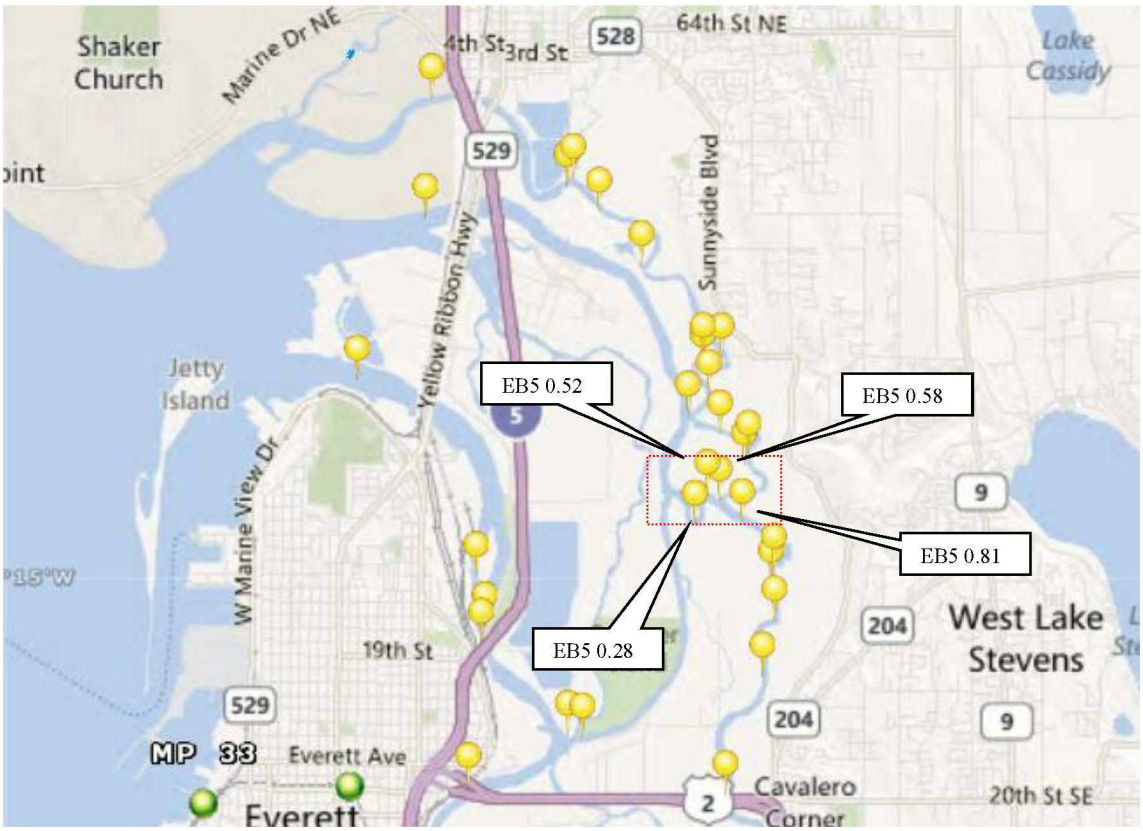
Scenic Subdivision MP 1774 – MP 1783 E

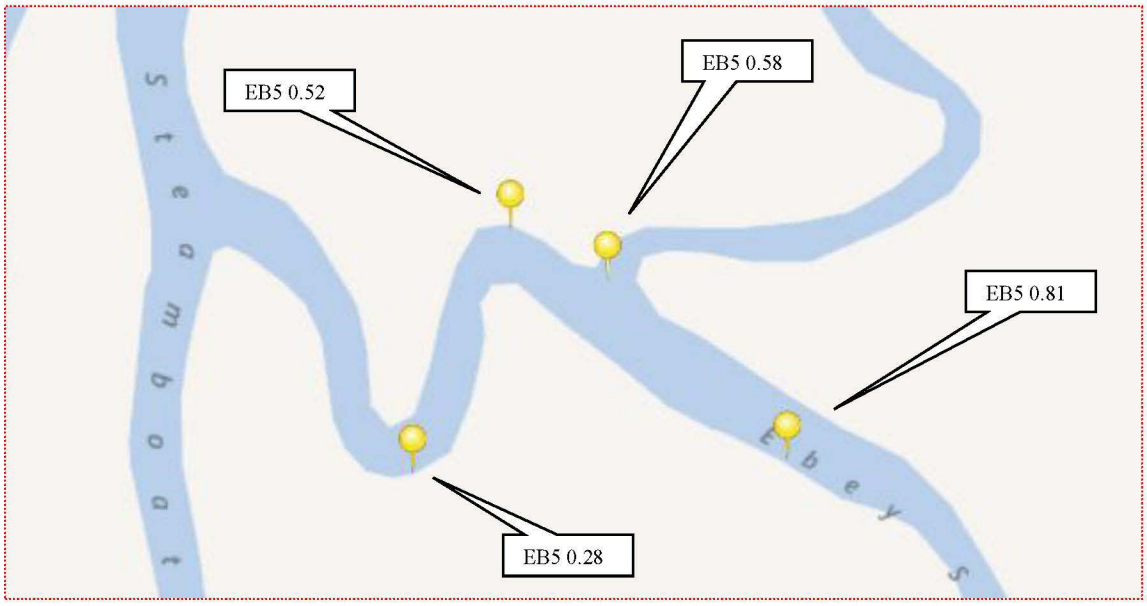


Scenic Subdivision MP 1774 – MP 1783 E

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB5-1.22	Burri Creek at Lake Stevens WWTP N 48° 0.064' W 122° 8.251' map page 4-10	Collection - Collect product in Burri Creek and exclude from entering Ebey Slough.	50ft B3 - River Boom, or other appropriate type, 60ft Sorbent Boom	Deploy boom across mouth directly upstream of existing self leveling log boom at the mouth of the channel, place sorbent boom downstream of river boom.
EB5-1.23	Ebey Slough at Lake Stevens WWTP N 48° 0.039' W 122° 8.262' map page 4-10	Collection - Collect product from Ebey Slough.	1650ft B3 - River Boom, or other appropriate type, 60ft Sorbent Boom	Utilize an anchoring system to anchor to LB shoreline (use anchor or natural anchor). Use hand bridles to maintain anchor angle. Deploy boom at 30° angle (or appropriate angle for current) to deflect product to RB. Use in stream anchor and RB outfall location as anchor points. Hand lines can be used in place of boom deflectors. Place approximately 150 ft of boom up shoreline in collection area for shoreline protection. Collect using skimmers. Use sorbent boom where appropriate for sheen control.
EB5-1.95	Ebey Slough near 9th St SE N 47° 59.506' W 122° 8.323' map page 4-10	Exclusion, collection - Exclude product from emergent marsh, or keep product in marsh if coming from Olympic Pipeline.	1200ft B3 - River Boom, or other appropriate type, 1200ft Sorbent Boom	Deploy boom along Ebey Slough eastern bank, across wetland. Recommended anchors from deadhead upstream to bank on RB

Scenic Subdivision MP 1774 – MP 1783 F

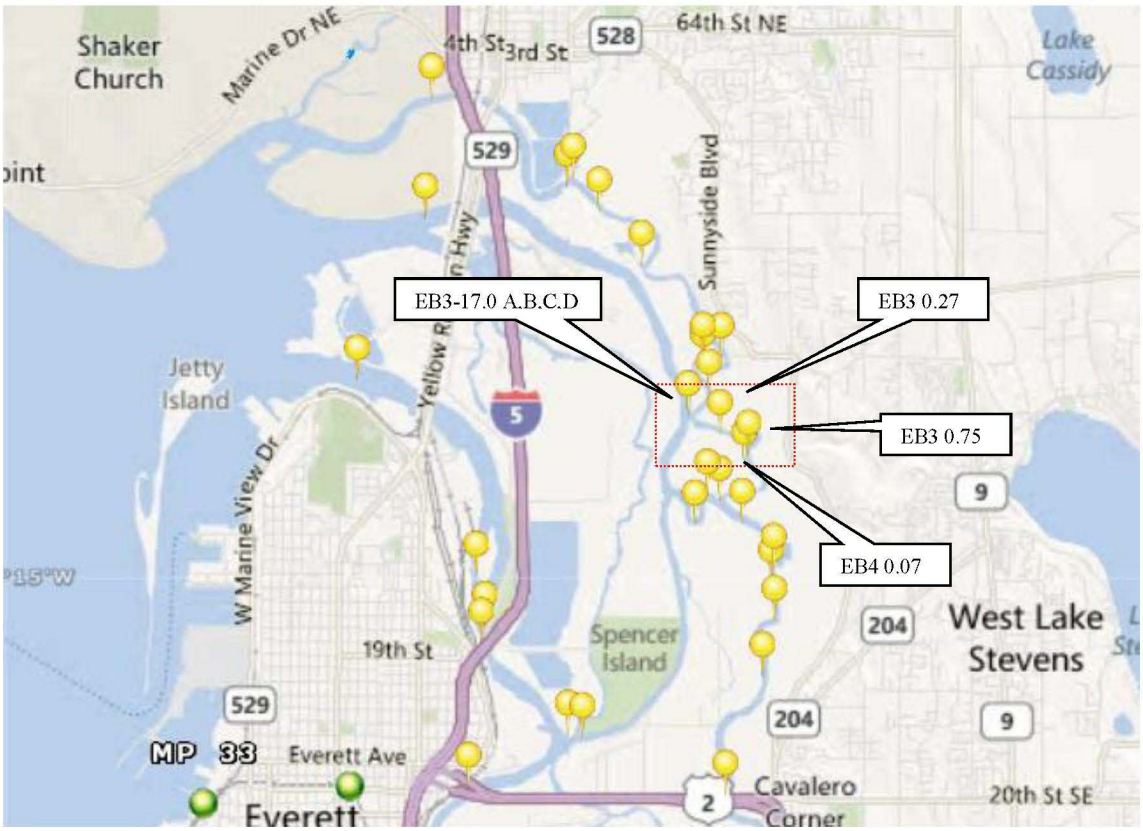


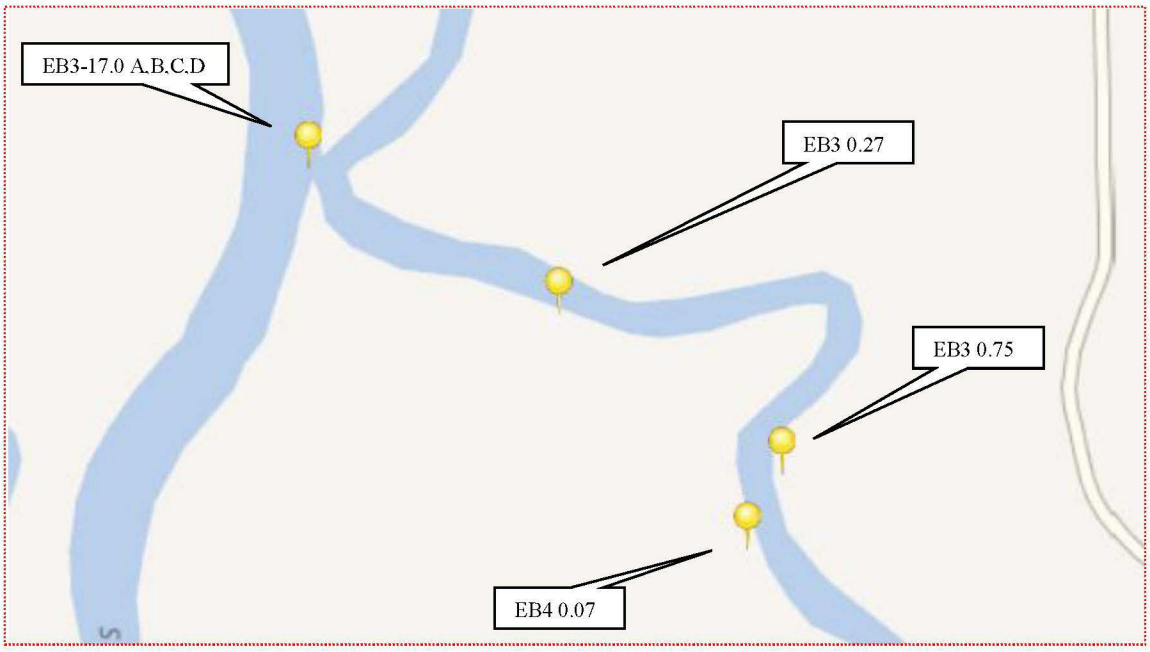


Scenic Subdivision MP 1774 – MP 1783 F

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB5-0.28	Ebey Slough West of Split #2 N 48° 0.312' W 122° 8.918' map page 4-10	Exclusion - Exclude product freshwater marsh.	360ft B3 -River Boom, or other appropriate type, 200ft Sorbent Boom	Exclude openings into wetland by booming across the bend in the slough. Back up boom with sorbent boom (on shoreline side). Implement using 2 boats each with 2 laborers, and 4 laborers on shore. Estimated time for deployment is 1 hour. Strategy must be tended during high tide.
EB5-0.52	Ebey Slough West of Split #1 N 48° 0.490' W 122° 8.814' map page 4-10	Exclusion - Exclude product from side channel into wetlands/tidal marsh.	50ft B3 - River Boom, or other appropriate type, 60ft Sorbent Boom	Access site by boat and deploy exclusion across mouth of side channel. Deploy sorbent boom as backup protection.
EB5-0.58	Ebey Slough at Ebey Slough Split N 48° 0.434' W 122° 8.339' map page 4-10	Exclusion - Exclude product from north Ebey Slough divergence.	450ft B3 -River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy river boom across mouth of divergence using large fir tree as west anchor and tallest piling to east. Deploy sorbent boom as backup to boom and to protect log jam. In stream anchoring is tide dependant. During low tide anchor boom using two anchors on one side. During high tide anchor boom in middle with anchor on each side of boom. Access site by boat. Potential access by levee road on east side of channel, but not confirmed.
EB5-0.81	Ebey Slough East of Split N 48° 0.322' W 122° 8.533' map page 4-10	Exclusion - Exclude product from emergent marsh side channel.	50ft B3 - River Boom, or other appropriate type, 50ft Sorbent Boom	Deploy boom along Ebey Slough LB (western bank). Anchor shore to shore across side channel using natural anchors.

Scenic Subdivision MP 1774 – MP 1783 G





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Scenic Subdivision MP 1774 – MP 1783 G

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB3-0.27	Ebey Slough Southeast of Cut to Steamboat Slough N 48° 0.841' W 122° 8.722' map page 4-10	Exclusion - Exclude product from LB side channels into wetlands/tidal marsh.	150ft Sorbent Boom	Access site by boat and place sorbent boom into side channel. Two additional side channels are located within 40 yards upstream and downstream of this point (N 48° 0.841' / W 122° 8.722') on the LB of Ebey Slough. Sorbent boom length includes enough for all three sites.
EB3-0.75	Ebey Slough near Mouth of Unnamed Tributary N 48° 0.738' W 122° 8.460' map page 4-10	Exclusion, collection - Exclude product in Ebey Slough from side channel and collect product from channel upstream of culvert.	50ft B3 - River Boom, or other appropriate type, 40ft Sorbent Boom	When product is in Ebey Slough during high tide, anchor river boom from shore to shore at mouth of channel, back-up with sorbent boom, and close the tide gate valve, during low tide, place sorbent boom at mouth of channel. When product is moving down side channel, install plywood underflow weir at upstream end of culvert. Place boom across channel for collection. Access site by boat. Collect product to boat or in barrels. Contact immediately or before entering: WDFW Emergency Hydraulic Project Approval, (M) 360-534-8233, 24-hour pager number. Responders must receive Emergency HPA from the WDFW prior to using culvert blocks and underflow dams.
EB3-3.17-A	Ebey Slough at Cut to Steamboat Slough N 48° 0.923' W 122° 9.004' map page 4-10	Collection - Collection in Ebey Slough at north end of slough junction.	700ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy boom across Ebey Slough, anchoring at north point of slough junction (LB) and natural anchor on east side (RB) of Ebey Slough. Extend boom up shoreline for protection on LB. Deploy sorbent boom on downstream side for sheen control. This strategy deployed in conjunction with EBS-3.17 B,C, and D, the combined personel requirements are 3 supervisors, 3 boat operators, and 9 laborers. Stage EBS-3.17-A, B, C and D together.

Scenic Subdivision MP 1774 – MP 1783 G

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB3-3.17-B	Ebey Slough at Cut to Steamboat Slough N 48° 0.923' W 122° 9.004' map page 4-10	Collection - Collection in Ebey Slough at south end of slough junction.	600ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy boom across Ebey Slough, anchoring to natural anchor at south point of slough junction (RB) and natural anchor on east side (LB) of Ebey Slough. Extend boom up shoreline on LB for protection. Deploy sorbent boom on downstream side for sheen control. This strategy deployed in conjunction with EBS-3.17 A,C, and D, the combined personel requirements are 3 supervisors, 3 boat operators, and 9 laborers. Deploy A,B and D first if product is in Ebey Slough. Stage EBS- 3.17-A, B, C and D together.
EB3-3.17-C	Ebey Slough at Cut to Steamboat Slough N 48° 0.923' W 122° 9.004' map page 4-10	Collection, deflection - Collection in Steamboat Slough.	1500ft B3 - River Boom, or other appropriate type, 400ft Sorbent Boom	Deploy boom across Steamboat Slough to prevent product from moving up/down the slough and for collection at either side. Extend boom up shoreline on LB to protect shoreline in collection area. Place sorbent boom on downstream side for sheen control. Use comealong- winches to tighten boom. Strategy will take 4-5 hours to implement. This strategy deployed in conjunction with EBS-3.17 A, B and D, the combined personnel requirements are 3 supervisors, 3 boat operators, and 9 laborers. Stage EBS- 3.17-A, B, C and D together.
EB3-3.17-D	Ebey Slough at Cut to Steamboat Slough N 48° 0.923' W 122° 9.004' map page 4-10	Exclusion, deflection - Exclusion of product in Steamboat slough to Ebey slough and vice versa.	450ft B3 - River Boom, or other appropriate type, 1000ft Sorbent Boom	Deploy boom from north point of slough junction to south point of slough junction to prevent product from moving between sloughs. Deploy sorbent boom on opposite side of boom from product, or both sides depending on movement of product. This strategy deployed in conjunction with EBS-3.17 A, B, and C depending on location of product and flow conditions, the combined personel requirements are 3 supervisors, 3 boat operators, and 9 laborers. Stage EBS- 3.17-A, B, C and D together.
EB4-0.07	Ebey Slough across from Mouth of Unnamed Tributary N 48° 0.663' W 122° 8.508' map page 4-10	Exclusion -Exclude product from Ebey Island.	50ft Sorbent Boom	Access site by boat and place sorbent boom across side channel.

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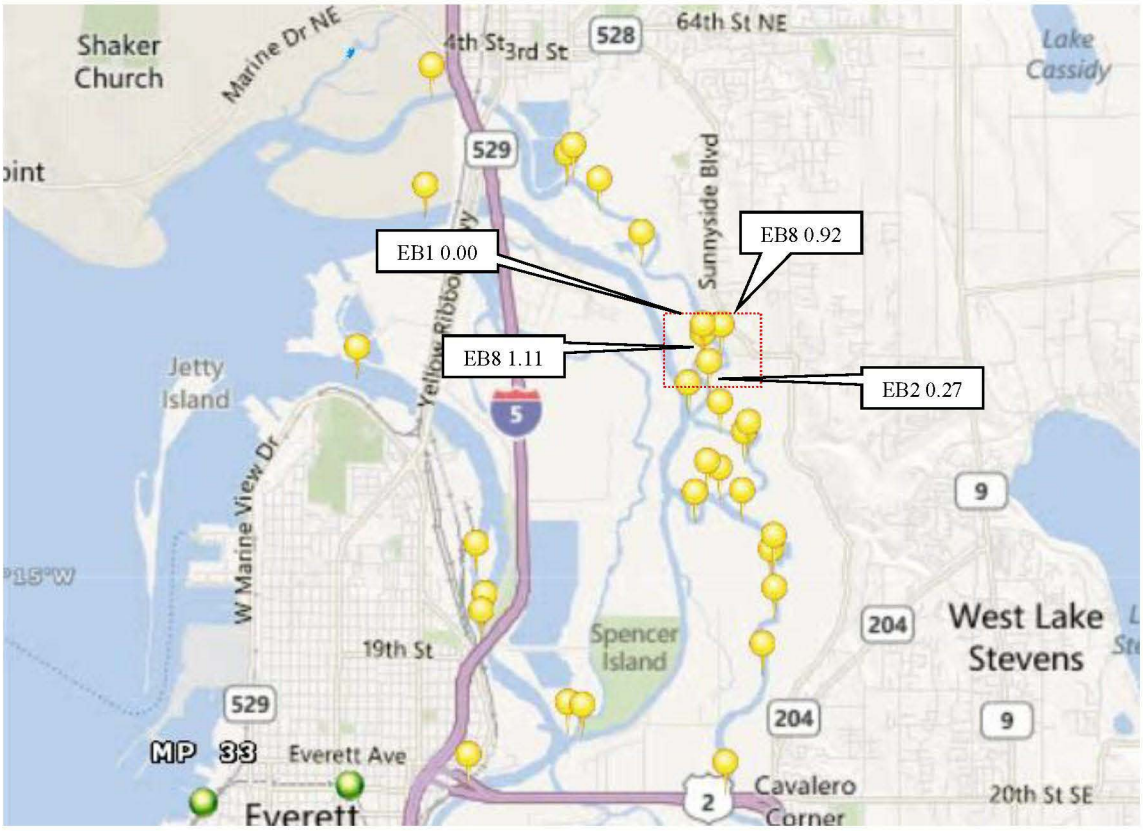
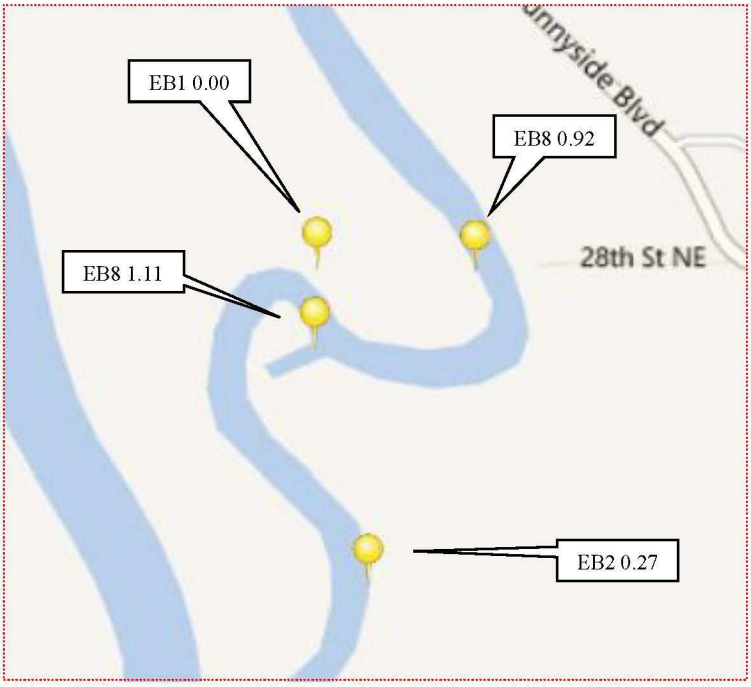
Scenic Subdivision MP 1774 – MP 1783 H

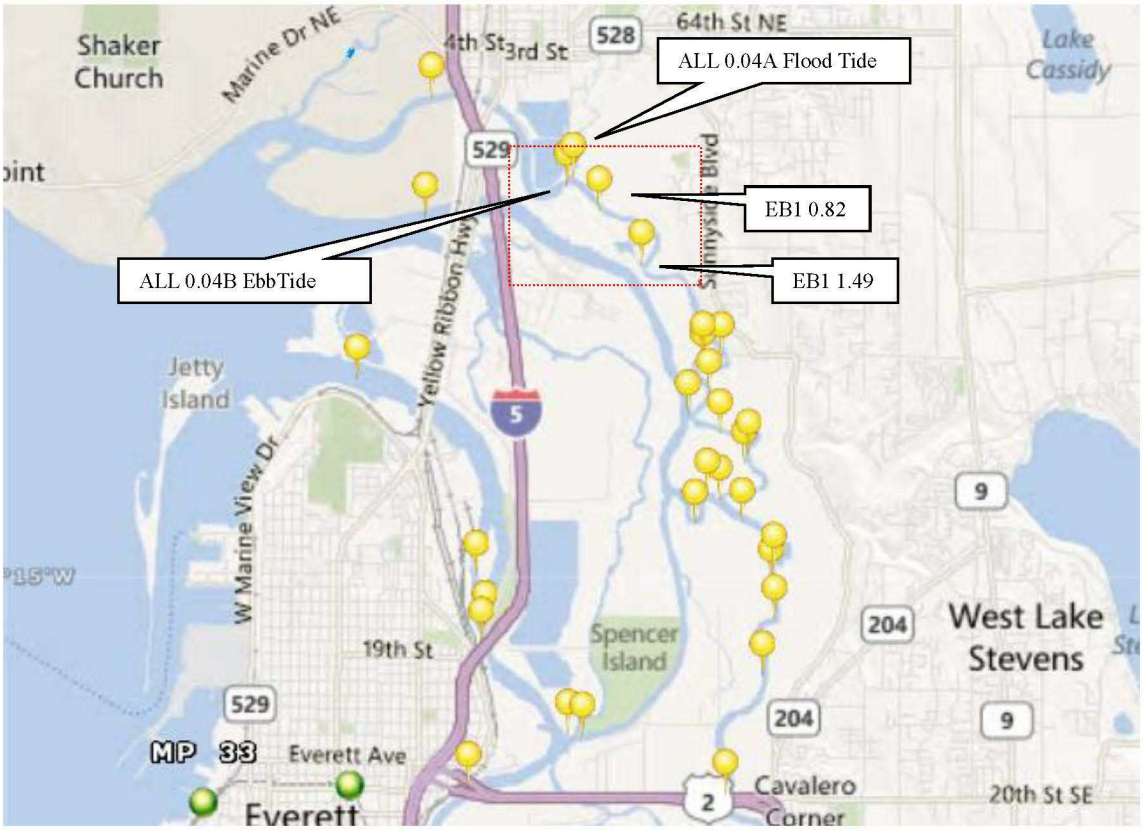


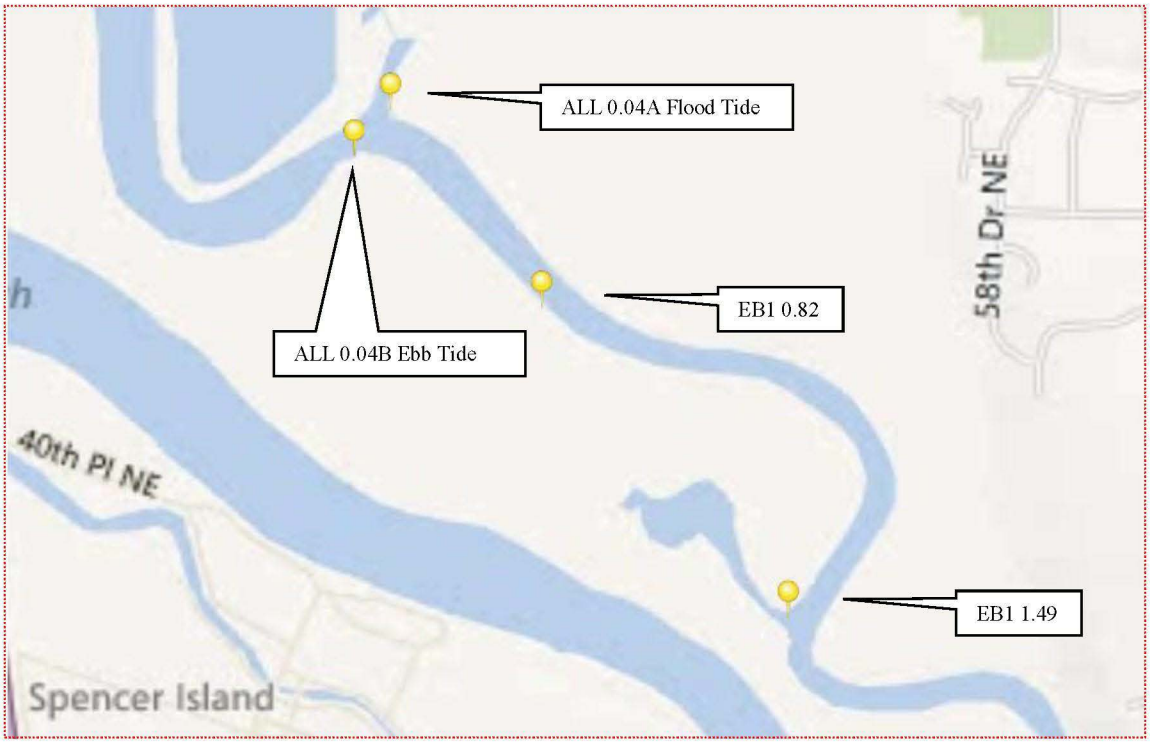


Scenic Subdivision MP 1774 – MP 1783 H

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB2-0.27	Ebey Slough North of Cut to Steamboat Slough N 48° 1.079' W 122° 8.818' map page 4-10	Collection - Block channel (buried culvert) with plywood and collect.	50ft Sorbent Boom	Access area by boat and cross levee. Insert plywood on upstream side of submerged culvert which conveys water through dike. Contact immediately or before entering: WDFW Emergency Hydraulic Project Approval, (M) 360-534-8233, 24-hour pager number. Responders must receive Emergency HPA from the WDFW prior to using culvert blocks and underflow dams.
EB8-0.92	Ebey Slough at 28th St NE N 48° 1.294' W 122° 8.711' map page 4-10	Exclusion - Exclude product from wetland.	50ft B3 - River Boom, or other appropriate type, 50ft Sorbent Boom	Exclude product by placing boom parallel to river across mouth of tidal creek. There is a cabin right near dike on opposite bank from strategy. Permission to access this site has been given.
EB8-1.11	Ebey Slough at King Creek Mouth N 48° 1.233' W 122° 8.856' map page 4-10	Exclusion - Exclude product from tidal side channel.	200ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Exclude product by placing boom parallel to river across mouth of tidal creek, anchor from shore to shore. Utilize sorbent boom for sheen control in channel. Sorbent boom length include length for using to plug small side channels on other side of Ebey Slough (requires boat to access other side).

Scenic Subdivision MP 1774 – MP 1783 I

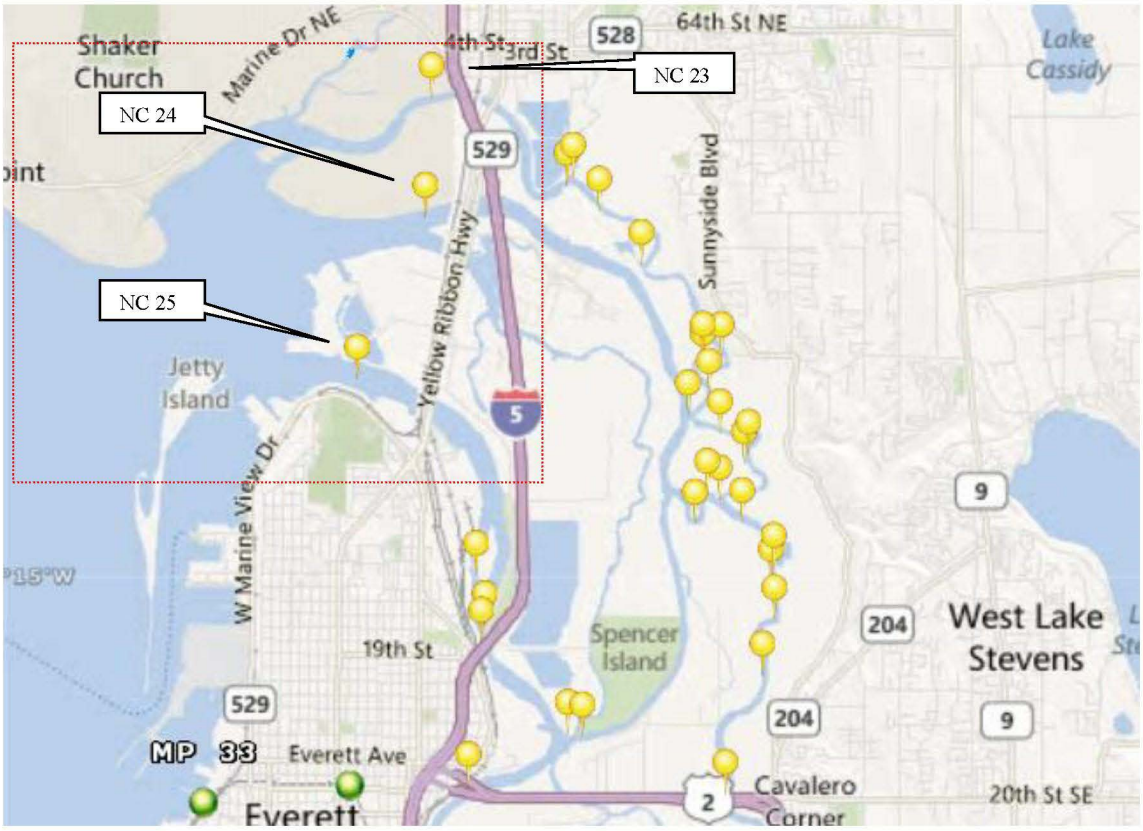




Scenic Subdivision MP 1774 – MP 1783 I

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
EB1-0.82	Ebey Slough upstream of Allen Creek Confluence #1 N 48° 2.165' W 122° 9.800' map page 4-8	Exclusion - Exclude product from tidal channel.	200ft B3 -River Boom, or other appropriate type	Exclude product by anchoring boom from shore to shore across the mouth parallel to Ebey Slough. Northwest of this creek (~40 yds) is another small creek that should be lined with ~50ft of sorbent boom.
EB1-1.49	Ebey Slough upstream of Allen Creek Confluence #2 N 48° 1.821' W 122° 9.414' map page 4-8	Exclusion - Exclude product from tidal channel.	200ft B3 -River Boom, or other appropriate type, 300ft Sorbent Boom	Exclude product by placing boom parallel to river across mouth of side channel. Also deploy sorbent boom along opposite bank to protect small back channel and side channel 450 ft to the north. There are multiple inlets in the area, each requiring 50ft sorbent boom.
ALL-0.04 -A-Flood Tide	Allen Creek at Mouth N 48° 2.350' W 122° 10.004' map page 4-8	Exclusion, collection - Deflect product into the mouth of Allen Creek for collection during high tide.	630ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy deflection boom across Ebey Slough. Deploy second boom across Allen Creek to prevent product from traveling too far upstream. There are good natural anchors. Culverts discharge into Allen Creek upstream of site. Small side channels near site may require lining with sorbent material.
ALL-0.04 -BEbbTide	Allen Creek at Mouth N 48° 2.350' W 122° 10.004' map page 4-8	Exclusion, collection, deflection - Deflect product into the mouth of Allen Creek for collection during low tide.	630ft B3 - River Boom, or other appropriate type, 200ft Sorbent Boom	Deploy deflection boom across Ebey Slough. Deploy second boom across Allen Creek to prevent product from traveling too far upstream. There are good natural anchors. Culverts discharge into Allen Creek upstream of site. Small side channels near site may require lining with sorbent material.

Scenic Subdivision MP 1774 – MP 1783 J



Scenic Subdivision MP 1774 – MP 1783 J

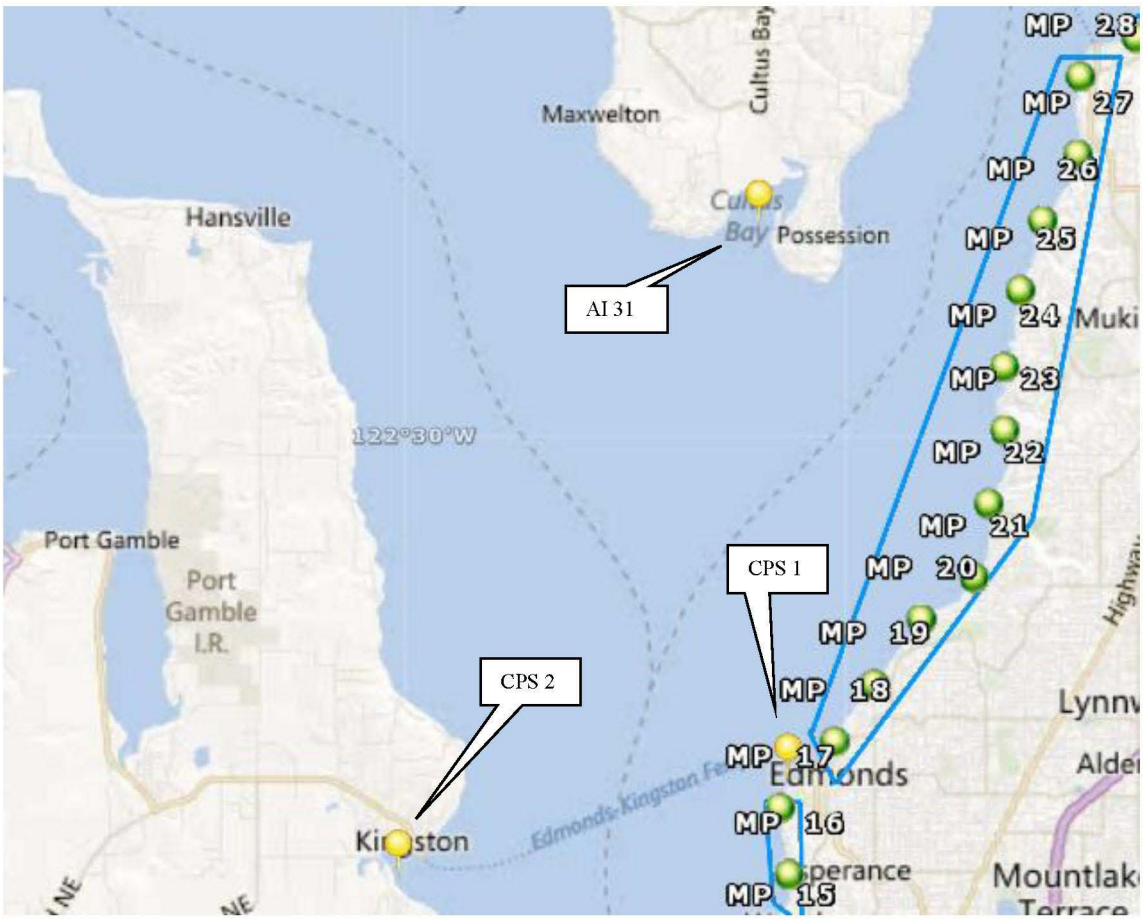
Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
NC-23	Ebey Slough (above I-5, between Everett and Marysville) SNO0114 48°-2.805'N 122°-10.780'W	Exclusion/ Collection - Keep oil out of the slough.	500'	Deploy boom across the slough downstream from the Highway 529 bridge, from the south shore angled north and east to the north shore near the bridge for collection.
NC-24	Steamboat and Union Sloughs (at confluence, between Everett and Marysville) SNO0131 48°-2.050'N 122°-11.485'W	Exclusion - Keep oil out of the sloughs.	1200'	Deploy boom west of the confluence of the two sloughs.
NC-25	Snohomish River (at mouth in Everett) SNO0162 48°-1.200'N 122°-12.225'W	Exclusion - Keep oil out of the mouth of the river.	1400'	Deploy boom across the river mouth from Preston Point across the river to Smith Island.

Scenic Subdivision MP 33 – MP 28

Scenic Subdivision MP 33 – MP 28

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
NC-22	Tulalip Bay (Just north of Everett) SNO0086 48°-3.490'N 122°-17.575'W	Exclusion - Keep oil out of the bay.	3000'	Deploy boom in a chevron configuration from the tip of Hermosa Point south to the opposite point northwest of Mission Beach. In poor weather, move the boom inside to protect the bay south of the sand spit across the middle of the bay, running the boom from the end of the sand spit to the shoreline on the east side of the bay.

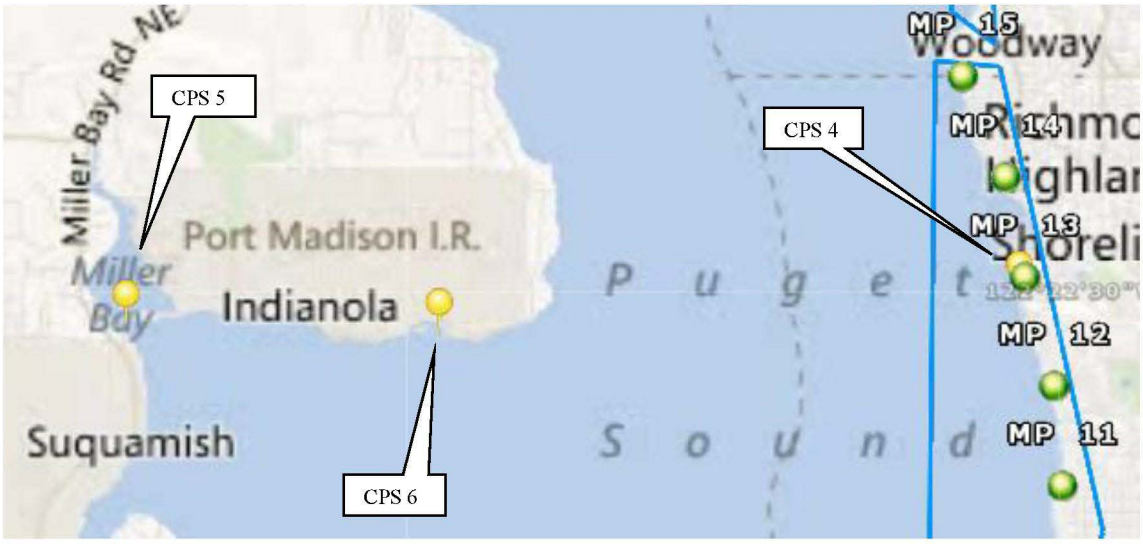
Scenic Subdivision MP 28 – MP 10



Scenic Subdivision MP 28 – MP 10

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
AI-31	Cultus Bay ISL0522 47°-55.260' N 122°-23.630' W	Exclusion - Keep oil out of inner bay.	1500'	Deploy boom from the north end of the residential area on the sand spit at the Cultus Bay marina (private) and run the boom directly north to the nearest shoreline where there is access for vac trucks to set up a collection point.
CPS-1	Edmonds Wildlife Sanctuary N 47° 48.410' W 122° 23.443' map page 4-23	Exclusion - Keep oil out of wildlife sanctuary	NA	Shut tide gates if the threat of oiling exists. Tide gate is 0.3 mile south of Dayton St., off gravel road along RR tracks. Contact immediately or before entering: Edmonds Public Works, (W) 425-771-0235, Contact for key to tide gate chain/lock, can also be cut.
CPS-2	Appletree Cove N 47° 47.531' W 122° 30.056' map page 4-23	Collection, exclusion - Prevent oil from entering Appletree Cove mud flats and intertidal area.	200ft Contractor Boom, 1300ft Harbor Boom	Attach 200 feet of intertidal boom to south end of cove at treeline east of retaining wall. Connect with 1300 feet of harbor boom which should be attached to the south end of the breakwater. (variation, attach to piling first and then to breakwater). 3 anchors should be placed in and 3 outside of boom. Collection can take place in cusps that form between anchors.

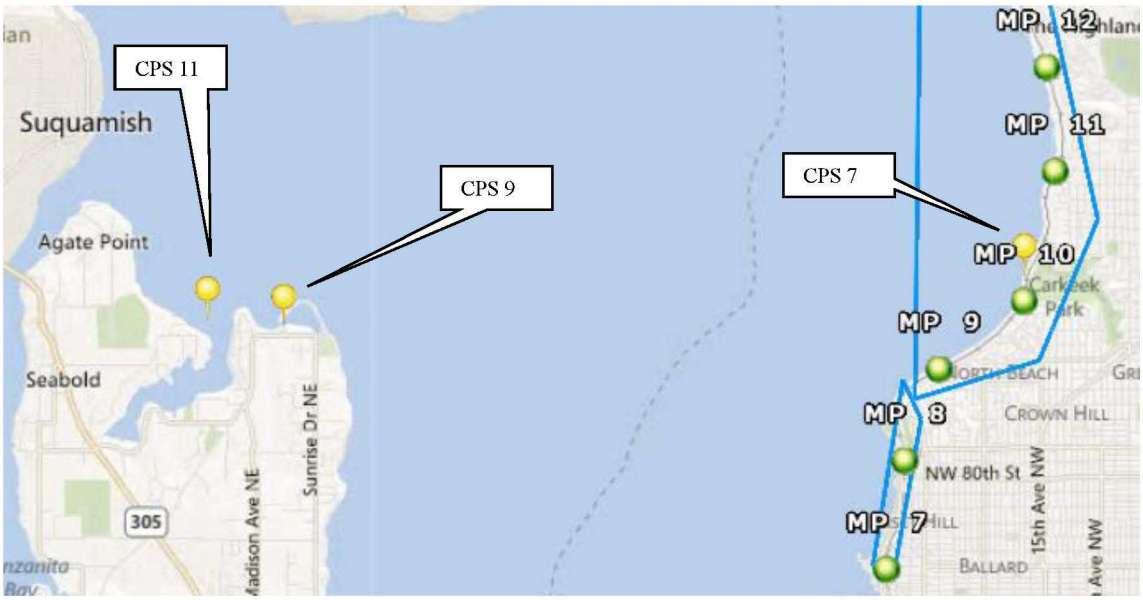
Scenic Subdivision MP 15 – MP 10



Scenic Subdivision MP 15 – MP 10

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
CPS-4	Boeing Creek N 47° 44.923' W 122° 22.955' map page 4-23	Exclusion -Prevent oil from entering creek mouth.	100ft Contractor Boom	High tide only - no threat otherwise. Place weir dam or other partial dam at culverts to prevent oil/tidal water from entering but allowing creek flow out. Will need sandbags, cement, plywood, etc. Boom as last resort. Contact immediately or before entering: WDFW Emergency Hydraulic Project Approval, (M) 360-5348233, 24-hour pager number. Responders must receive Emergency HPA from the WDFW prior to using culvert blocks and underflow dams.
CPS-5	Outer Miller Bay N 47° 44.689' W 122° 33.085' map page 4-23	Exclusion -prevent oil from entering bay	800ft Contractor Boom	Anchor boom at south end of south shore to close off entrance.
CPS-6	Doe-Kag-Wats Marsh N 47° 44.643' W 122° 29.725' map page 4-23	Exclusion -Keep oil out of marsh.	1000ft Contractor Boom	Deploy boom in a chevron configuration in front of the entrance to the marsh. Current is very strong in entrance channel during tidal changes. Oil could be collected with a vactruck from the west side of the boom.

Scenic Subdivision MP 15 – MP 7



Scenic Subdivision MP 15 – MP 7

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
CPS-7	Piper Creek - Inner Strategy N 47° 42.769' W 122° 22.909' map page 4-23	Exclusion - Keep oil out of Piper Creek estuary	200ft Contractor Boom	Boom off both culverts where RR crosses creek.
CPS-9	Point Monroe Lagoon N 47° 42.425' W 122° 31.131' map page 4-23	Collection, diversion -Keep oil out of the lagoon.	1000ft Contractor Boom	Deploy boom in a chevron configuration from the Pt. Monroe sand spit to the shoreline to the south to close off the entrance to the lagoon.
CPS-11	Port Madison N 47° 42.181' W 122° 31.676' map page 4-23	Collection - Exclude oil from entering Port Madison	1200ft Contractor Boom	Deploy boom at an angle across the entrance of Port Madison to divert oil to the east shore near the road for collection.

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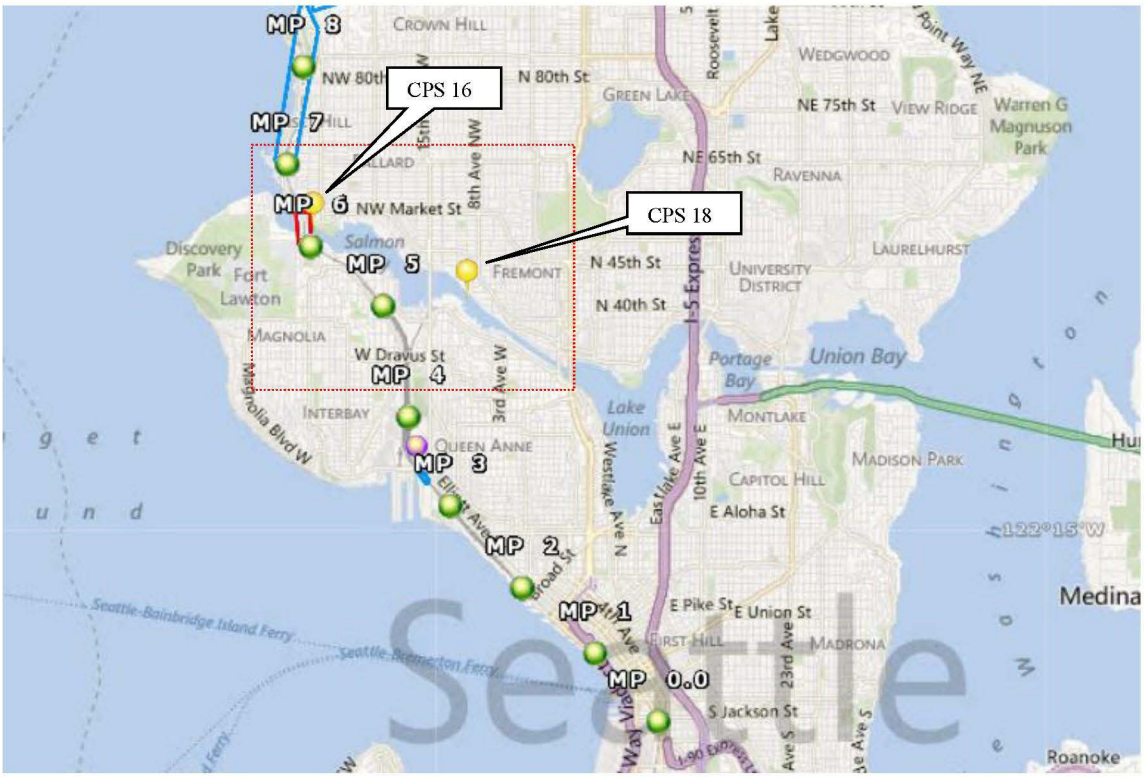

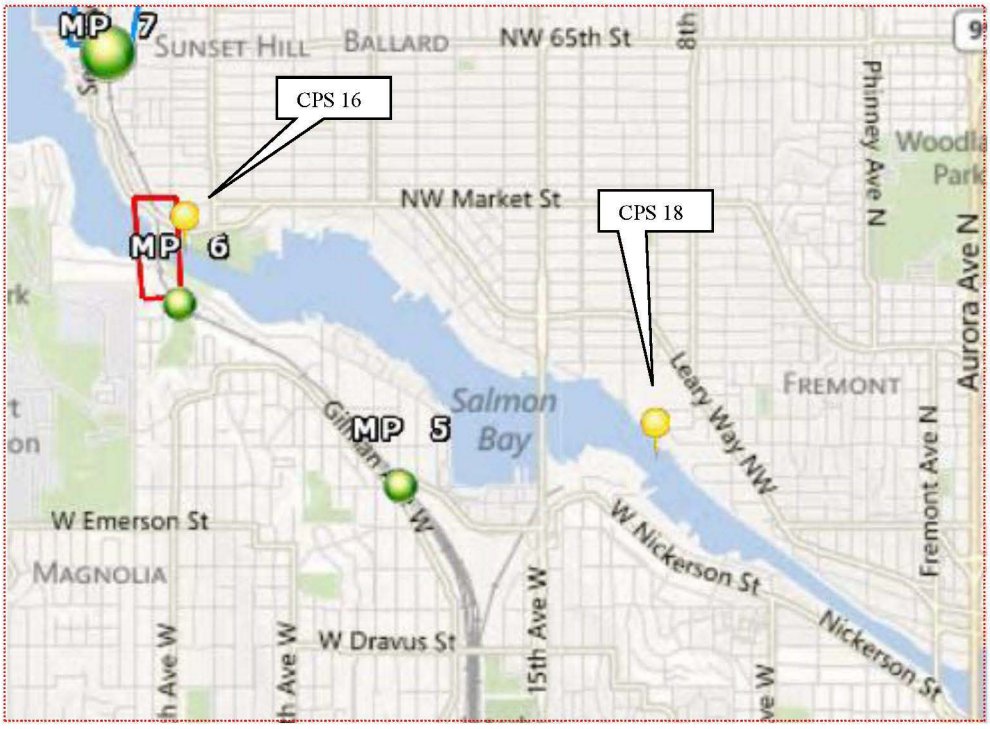

Scenic Subdivision MP 8 – MP 0

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
CPS-16	Chittenden Locks - Salmon Bay N 47° 39.913' W 122° 23.856' map page 4-25	Exclusion -Keep oil in lakes	NA	Contact immediately or before entering: Chittenden Locks, (W) 206-7837000, Notify Lock master to close the locks, fish ladder, and spillway gates and await further guidance from Unified Command.
CPS-18	Lake Washington Ship Canal N 47° 39.219' W 122° 21.822' map page 4-25	Collection, exclusion -Keep oil out of Puget Sound	300ft Contractor Boom	Boom across canal; use skimmer along boom; anywhere along canal that is appropriate/ accessible.