



# **Northwest Division**

## **Fallbridge 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>

## 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)

### **Fallbridge Subdivision GRP Links**

MP 229 – MP 195: Mid Columbia River (M) GRPs

MP 195 – MP 119: Mid Columbia River (J) GRPs

MP 119 – MP 96: Mid Columbia River (D) GRPs

MP 96 – MP 48: Mid Columbia River (B) GRPs

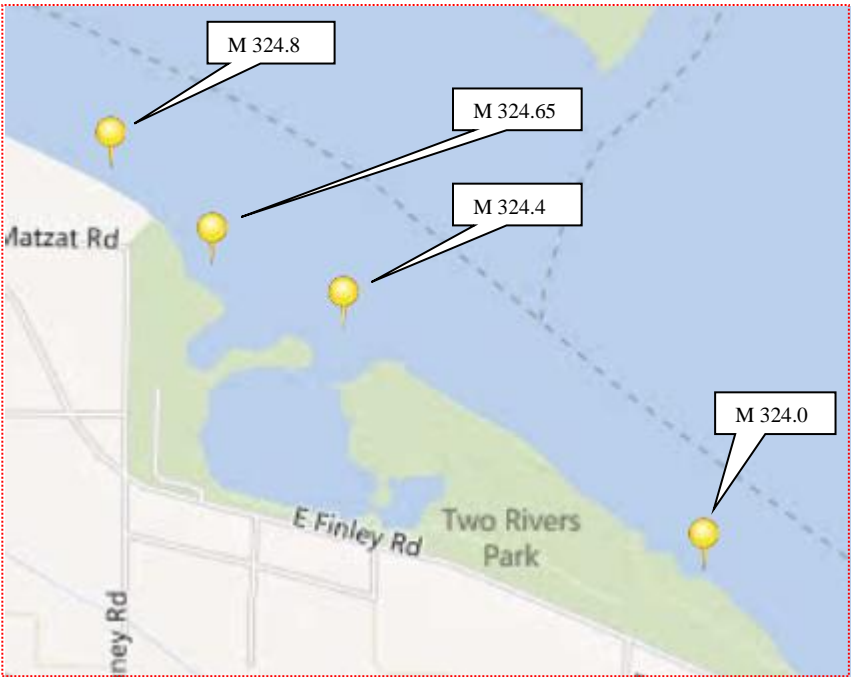
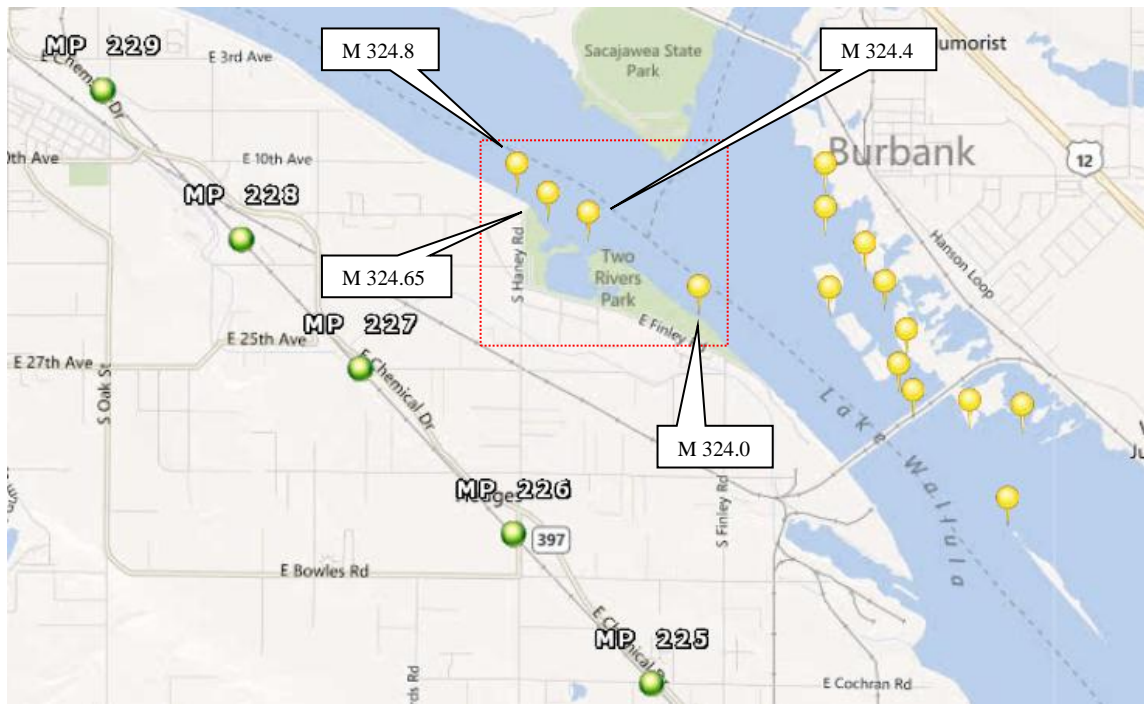
MP 48 – MP 0: Lower Columbia River (LCR) GRPs

MP 9 – MP 0: Lower Columbia River (WR) GRPs

MP 9 – MP 0: Lower Columbia River (MC) GRPs

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

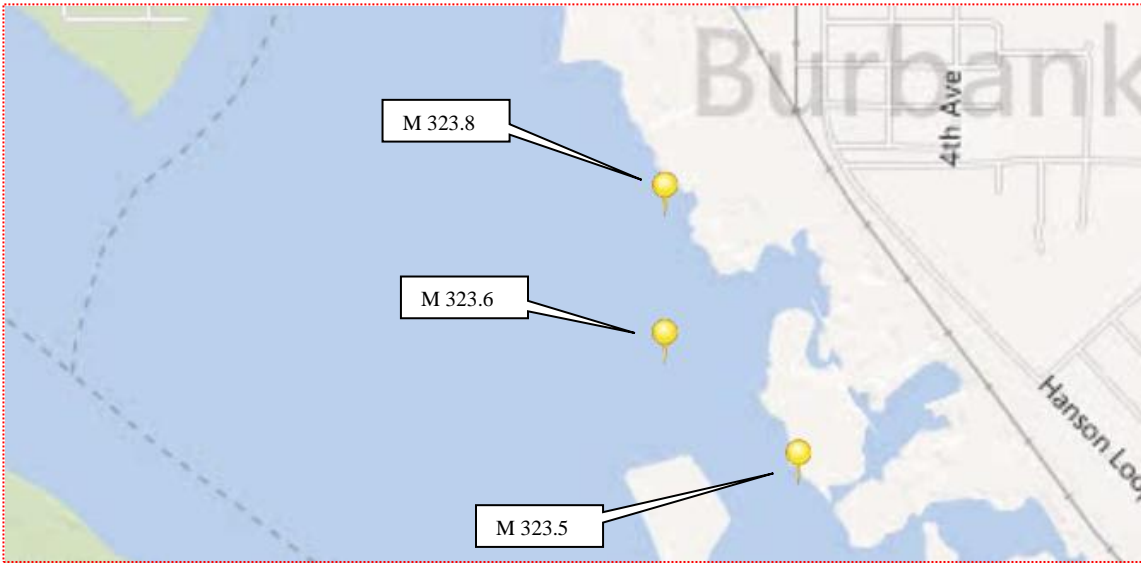
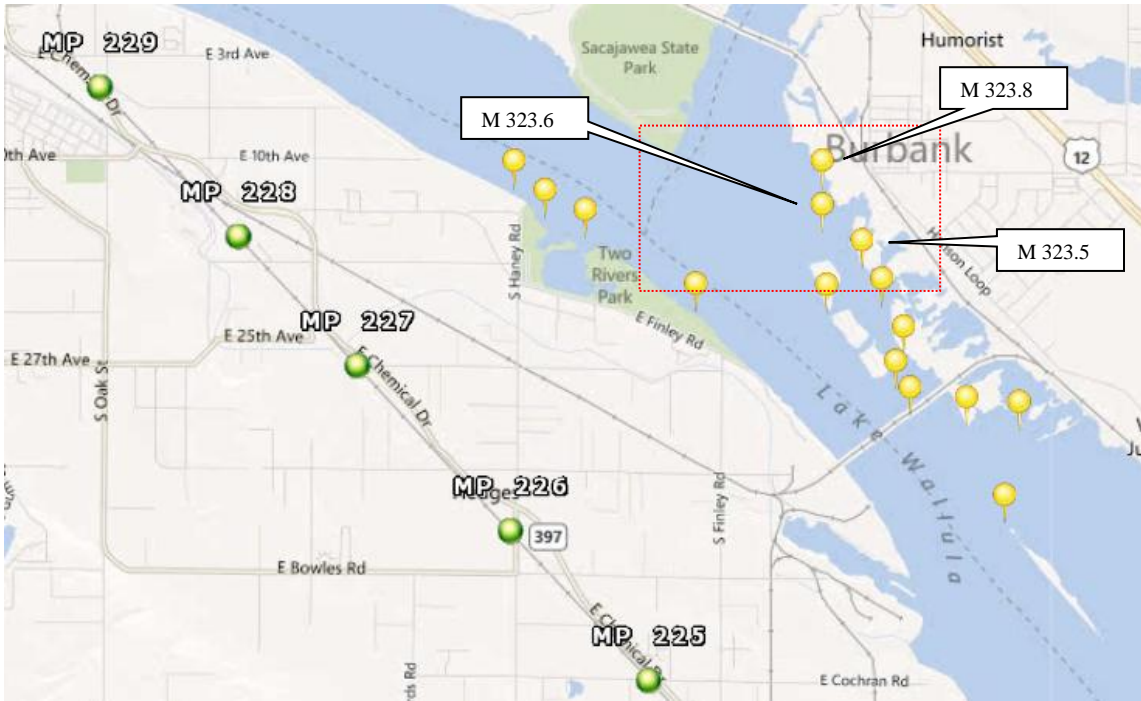
Fallbridge Subdivision MP 229 – 225 A



## Fallbridge Subdivision MP 229 – 225 A

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-324.8 M-324.65	Point west across river from Sacajawea State Park.	Deflection - Protect shallow water habitat.	(2) 500'	Use 2 sections (500' each) of deflection boom at point north of shallow water inlet, west of the Snake River confluence.
M-324.4	Inlet opening, south of M 324.65 strategy.	Exclusion - Protect shallow water habitat.	500'	Use 500' of exclusion boom between two points, south of SMP-12
M-324	Inlet opening, west side of Columbia River - south of M-324.4.	Exclusion - Protect shallow water habitat.	750'	Use 750' of exclusion boom between points, south of SMP 13.

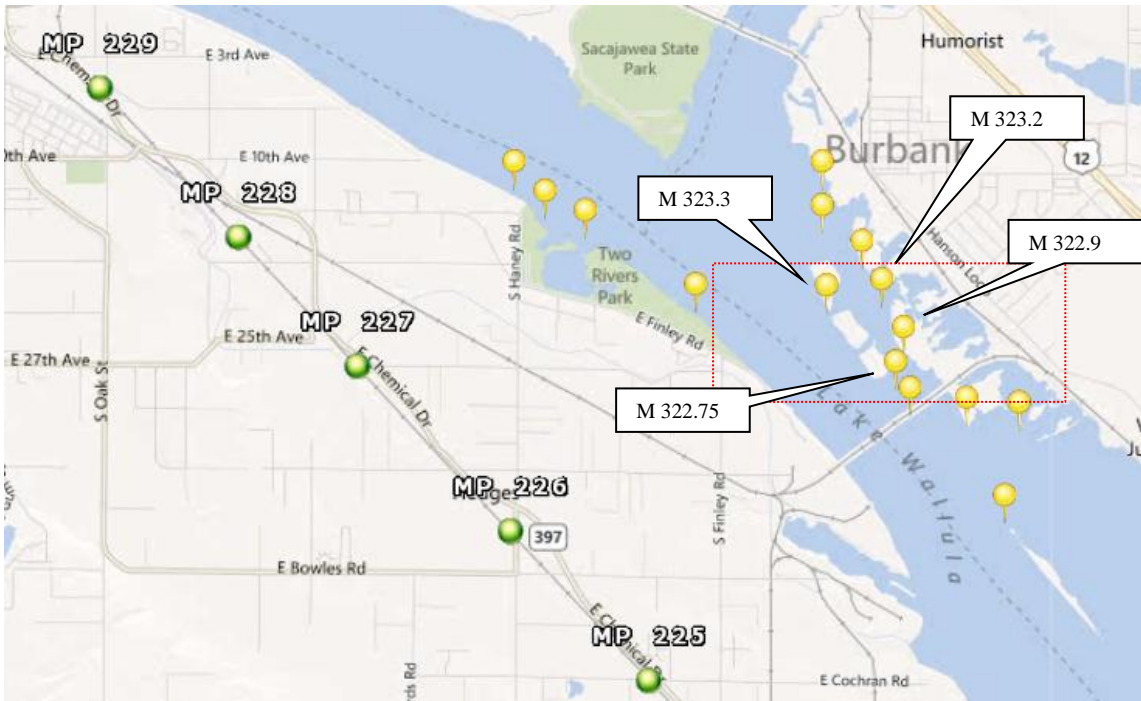
Fallbridge Subdivision MP 229 – 225 B



## Fallbridge Subdivision MP 229 – 225 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-323.8	Second inlet mouth from Snake River railroad trestle.	Exclusion - Prevent oil from entering valuable bird resting and feeding areas.	750'	Use 750' of exclusion boom across mouth of inlet.
M-323.6	North point of third inlet from Snake River railroad trestle.	Deflection - Prevent oil from entering valuable bird resting and feeding area.	1000' - more if needed.	Use 1000' of deflection boom off north entrance point, send oil into middle of channel.
M-323.5	Third inlet from Snake River railroad trestle.	Exclusion - Prevent oil from entering valuable bird resting and feeding area.	750'	Use 750' of exclusion boom across mouth of inlet.

Fallbridge Subdivision MP 229 – 225 C

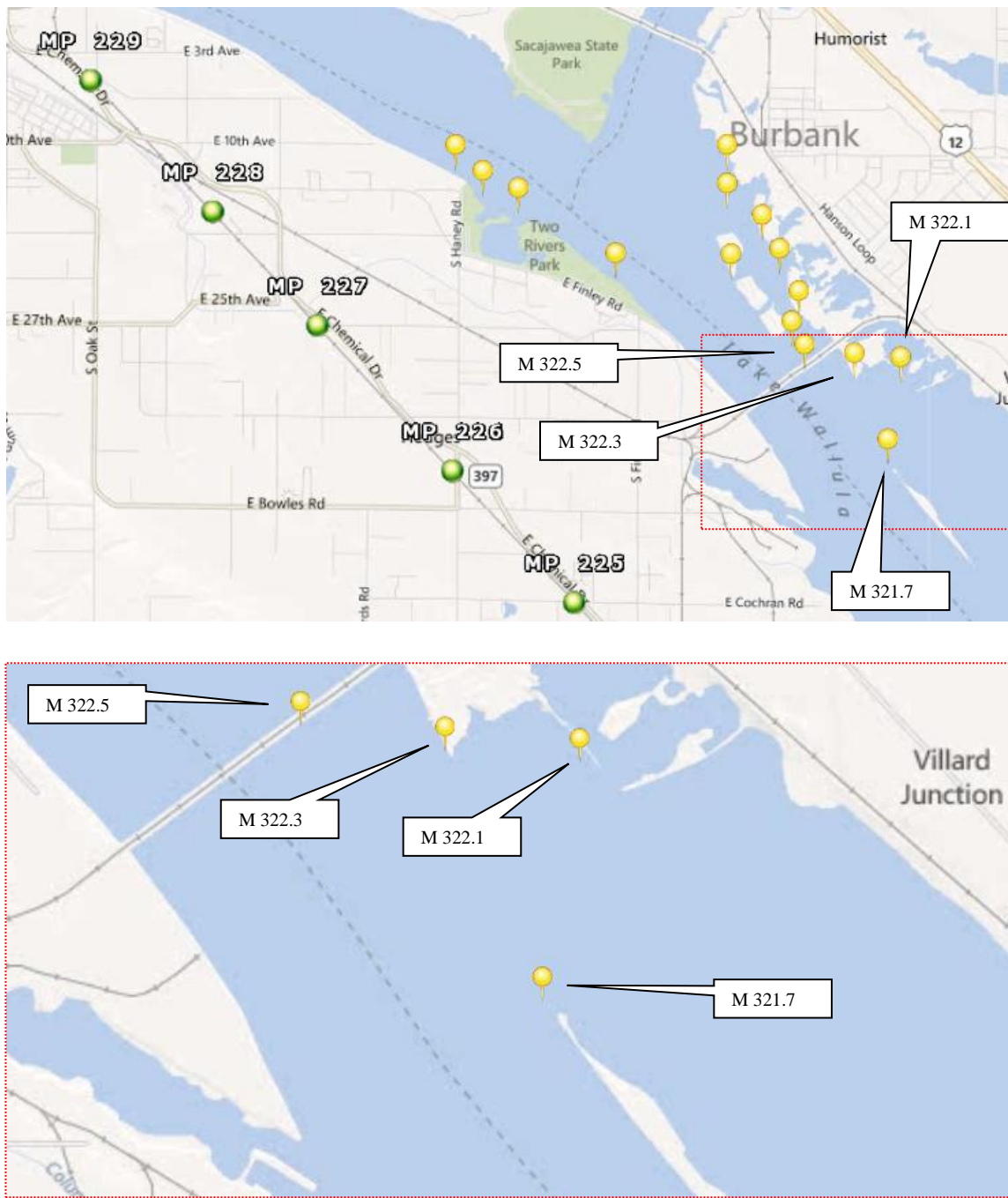


## Fallbridge Subdivision MP 229 – 225 C

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-323.3	North end of 4th inlet south of Snake River railroad trestle.	Deflection - Prevent oil from entering valuable bird resting and feeding areas.	1000' - more if needed.	Use 1000' of deflection boom off north entrance point, send oil into middle of channel.
M-323.2	Fourth inlet south of Snake River railroad trestle.	Exclusion - Prevent oil from entering valuable bird resting and feeding areas.	2000'	Use 2000' of boom connected along points from strip of land in the south to the north side of entrance. Use islands in between to assist.
M-322.9	Island west of south end of strategy M-323.2.	Deflection - Prevent oil from entering valuable bird resting and feeding areas.	1000' - more if needed.	Use 1000' of deflection boom off north entrance point, send oil into middle of channel.
M-322.75	The next two points south of M-323.2.	Deflection - Prevent oil from entering valuable bird resting and feeding areas.	500' - more if needed.	Use 1 sections (500') of deflection boom off north entrance point, send oil into middle of channel.



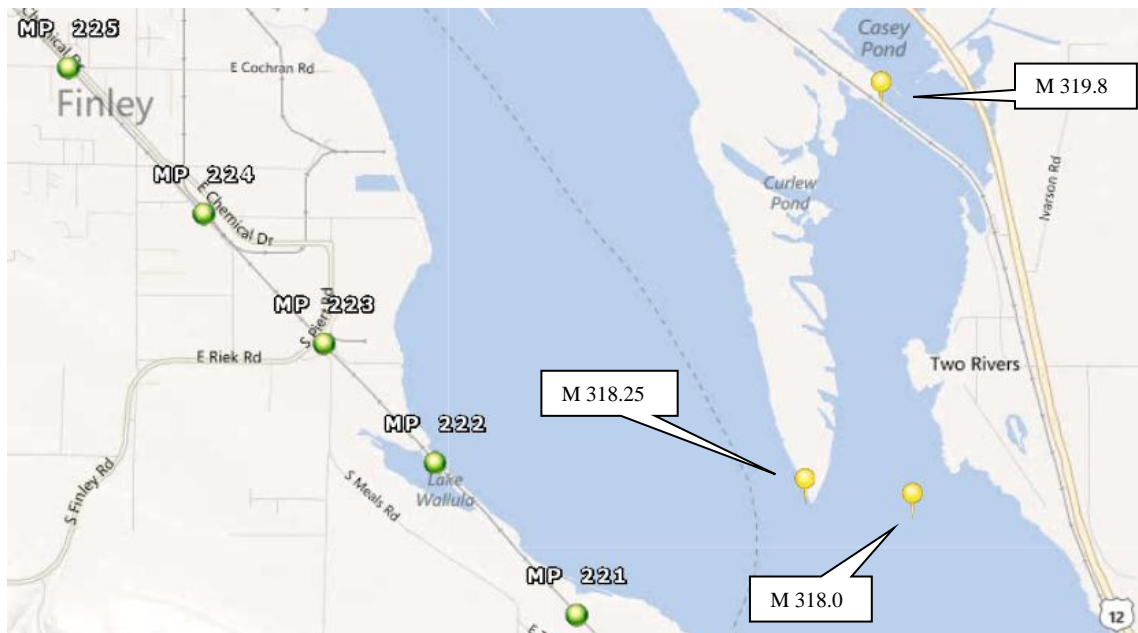
Fallbridge Subdivision MP 229 – 225 D



## Fallbridge Subdivision MP 229 – 225 D

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-322.5	East end of Columbia River railroad trestle.	Deflection - Prevent oil from entering valuable bird resting and feeding areas.	1000' - more if needed.	Use 1000' of deflection boom off north entrance point, send oil into middle of channel.
M-322.3	Point south of Columbia River railroad trestle.	Deflection - Prevent oil from entering valuable bird resting and feeding areas.	1000' - more if needed.	Use 1000' of deflection boom off north entrance point, send oil into middle of channel.
M-322.1	Entrance to Villard Pond.	Exclusion - Prevent oil from entering valuable bird resting and feeding areas.	500' exclusion	Use 500' exclusion boom to close off Villard Pond.
M-321.7	Foundation Island	Exclusion - Prevent oil from hitting shoreline of island, extremely valuable migratory bird areas.	(2) 500'	Chevron exclusion on East end of island, 500' for each leg.

## Fallbridge Subdivision MP 229 – 221



## Fallbridge Subdivision MP 229 – 221

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-319.8	Entrance to Casey Pond.	Exclusion - Protect inner shallow waters of wildlife refuge.	100'	Use 100' of exclusion boom across opening in railroad trestle.
M-318.25	South tip of Corps of Engineers Habitat Management Area.	Deflection - Protect marshlands, shallow water habitat inside refuge.	500'	Use 1 section (500') of deflection boom angled to the Southwest - keep oil in main channel of the Columbia River
M-318	Entrance to Inlet leading to Casey Pond - McNary Wildlife refuge.	Enhanced skimming - Protect marshlands, shallow water habitat inside refuge.	200' - 500' leg.	Use skimmers with boom legs to skim area.

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## Fallbridge Subdivision MP 229 – 217

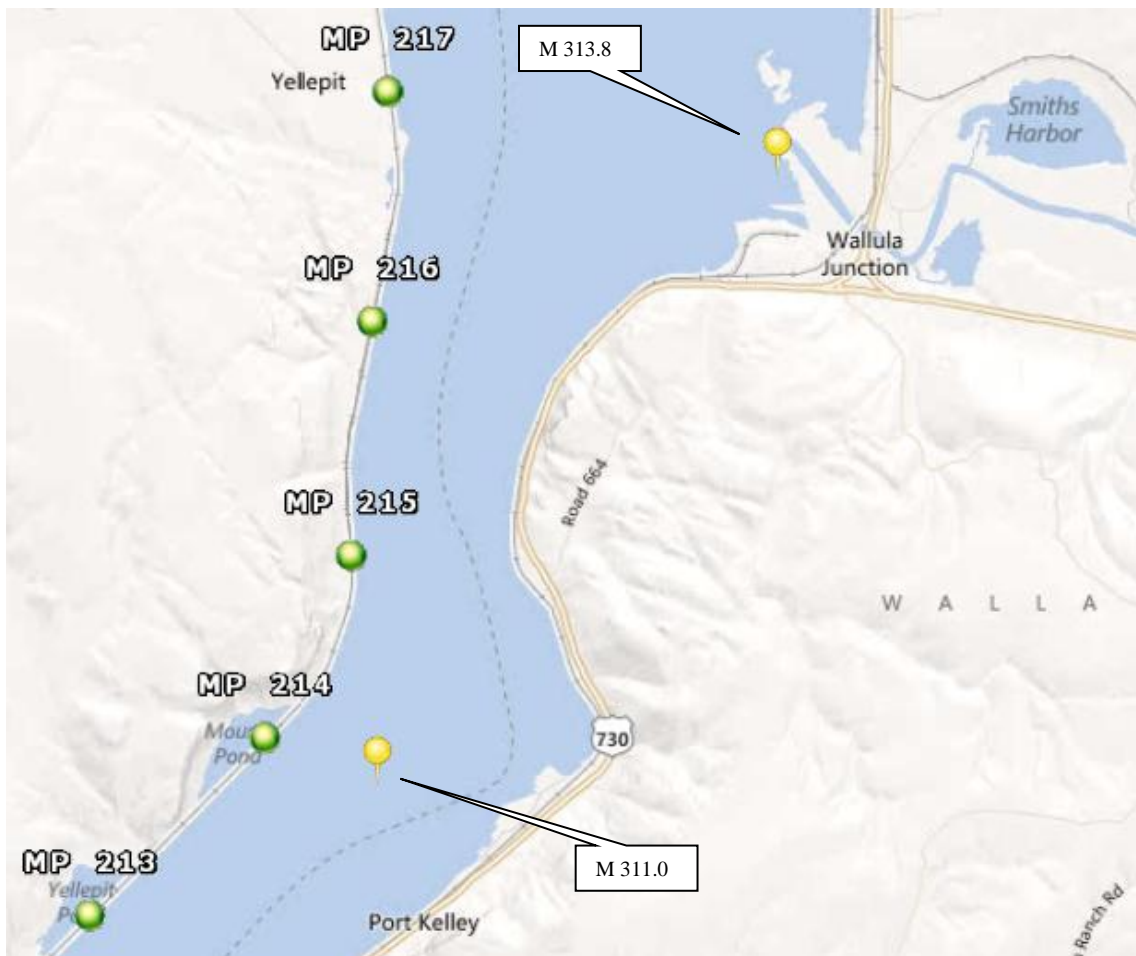


## Fallbridge Subdivision MP 229 – 217

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-316.9	Badger Island	Exclusion - Prevent oil from hitting shoreline of island, extremely valuable migratory bird areas.	(2) 500'	Chevron 2 sections (500' each) of exclusion boom on North end of island, 500' for each leg.
M-316.75	Inlet south of Hover on the west side of the Columbia River.	Exclusion - Prevent oil from entering shallow water area.	900' Exclusion	Use 900' of exclusion boom from spit to point on south side of inlet.
M-314.3	Near Wallulla State Park	Enhanced skimming - Prevent oil from continuing further downstream - protect resources at M-313.8.	(2) 200'	Use skimmers in addition to 2 sections (200' each) of boom for enhanced skimming at the two natural collection areas.

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## Fallbridge Subdivision MP 223 – 213



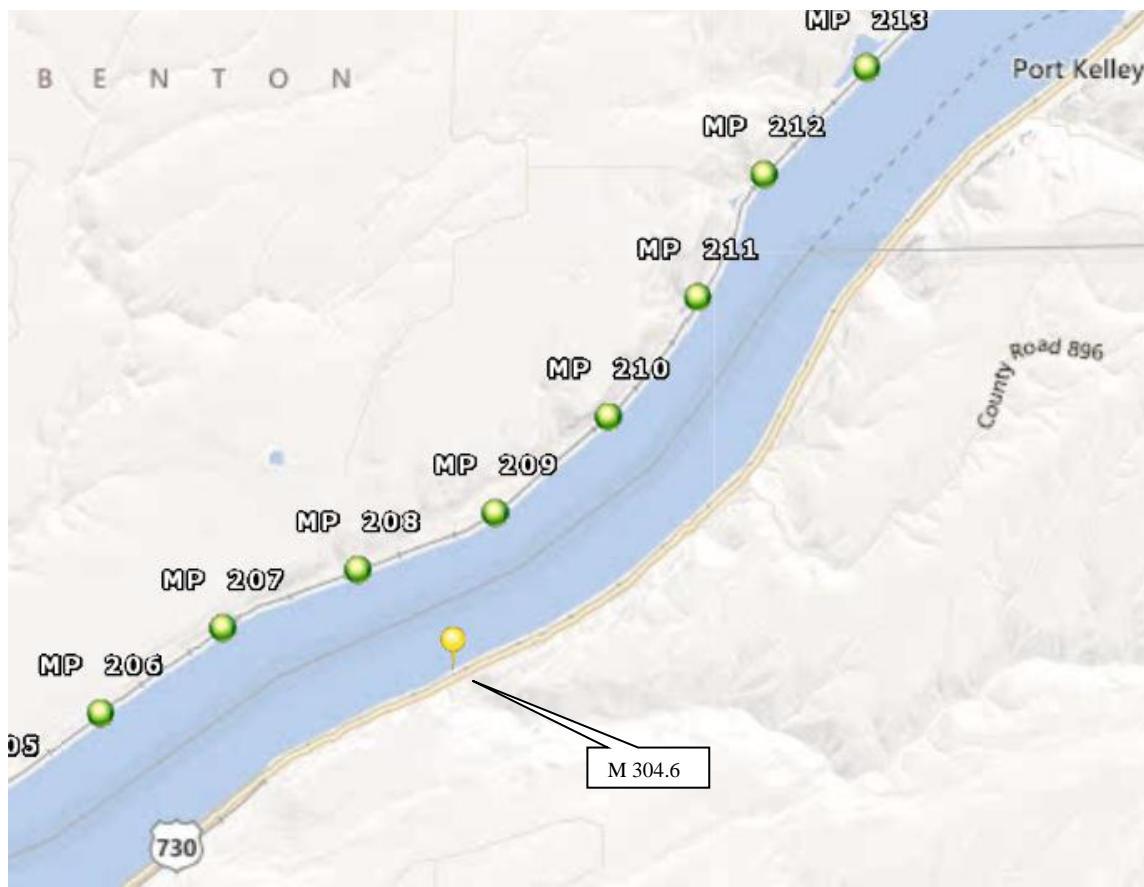
## Fallbridge Subdivision MP 223 – 213

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-313.8	Walla Walla River	Exclusion - Close off mouth of the Walla Walla River.	500'	Use 500' of exclusion boom across railroad trestle at the mouth of the Walla Walla River.
M-311.0	Port Kelley	Skimming - Prevent oil from continuing further downstream or settling out.	(2) 400'	Use enhanced skimmingskimmers at the natural collection area.

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Fallbridge Subdivision MP 223 – 206

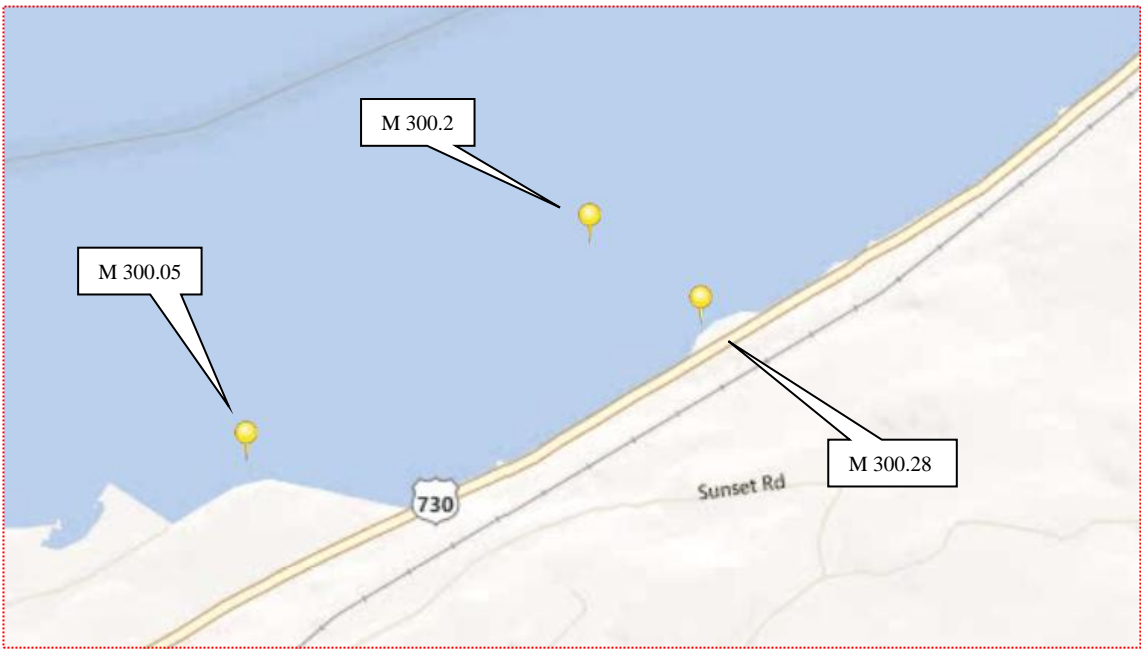
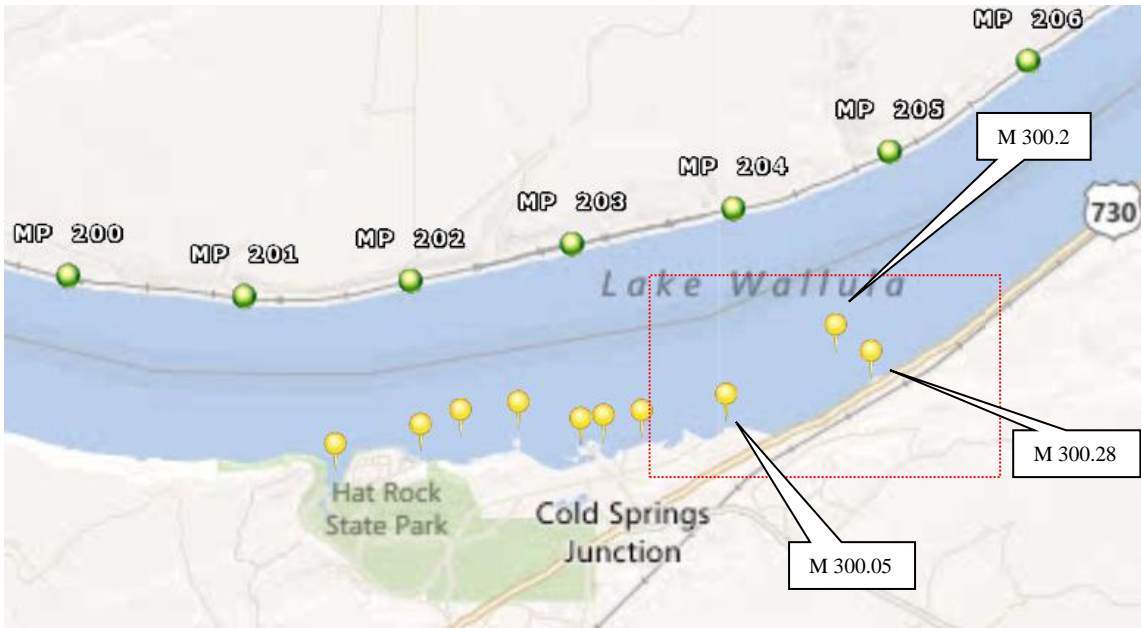


Fallbridge Subdivision MP 223 – 206

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-304.6	Juniper Canyon	Exclusion - Prevent oil from entering wetlands area in Juniper Canyon.	300'	use 300' of exclusion boom outside railroad trestle.

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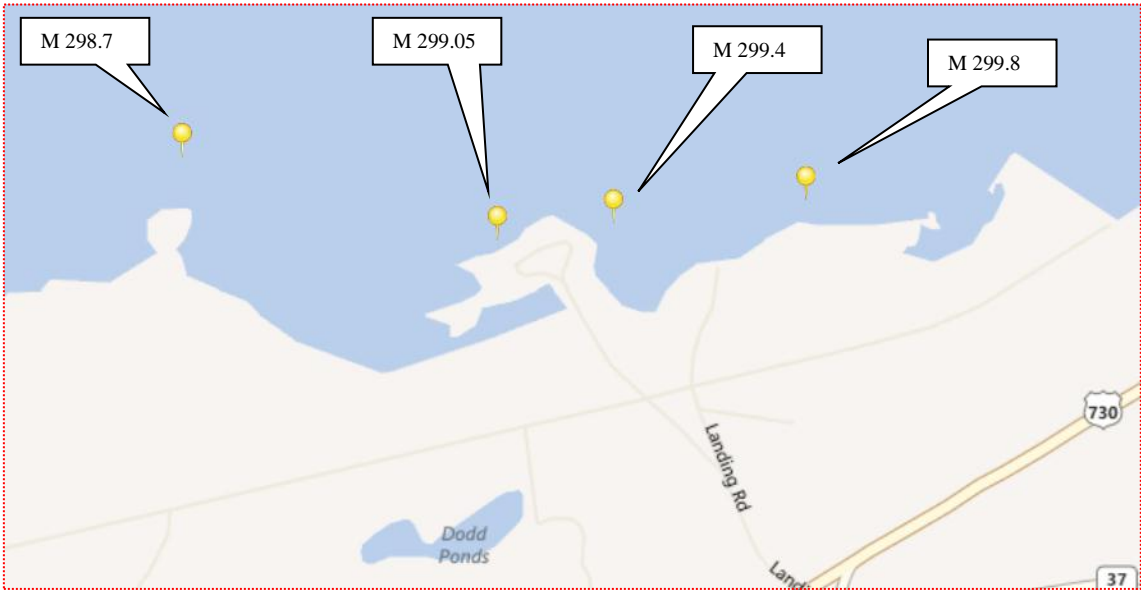
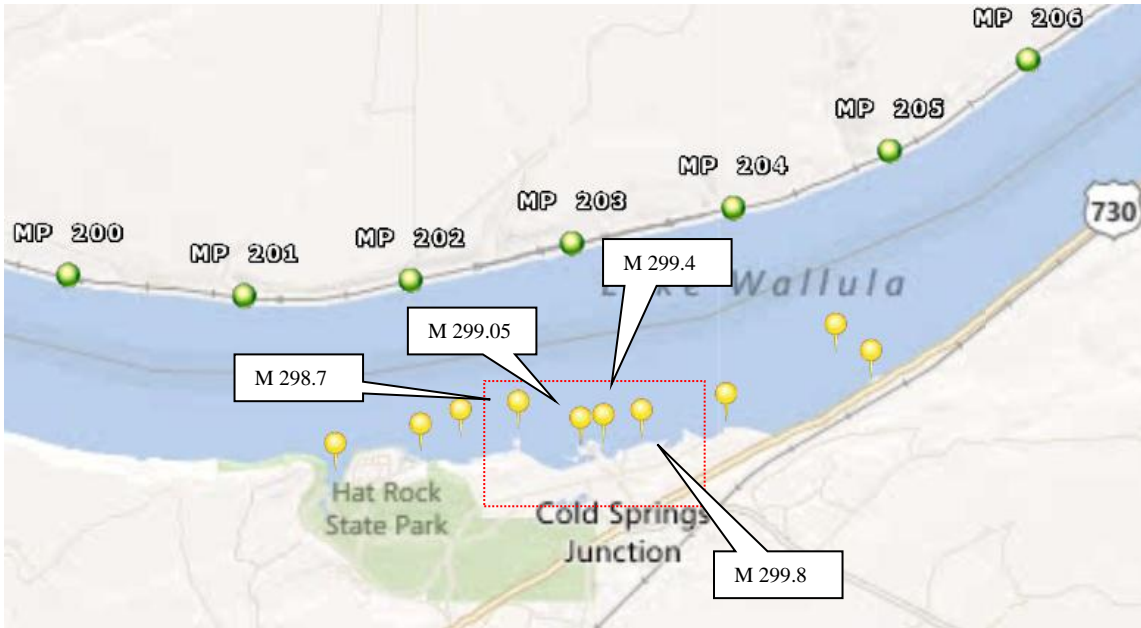
Fallbridge Subdivision MP 217 – 200 A



## Fallbridge Subdivision MP 217 – 200 A

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-300.28 M-300.2	Point on south shore opposite Spukshowski Canyon.	Deflection - Prevent oil from entering shallow water habitat on Oregon side of river.	(2) 500'	Use 2 sections (500' each) of deflection boom to send oil into main Columbia River channel.
M-300.05	Point NE of Cold Springs Junction.	Deflection - Prevent oil from entering shallow water habitat on Oregon side of river.	1000'	Use 1000' of deflection boom to send oil into main Columbia River channel.

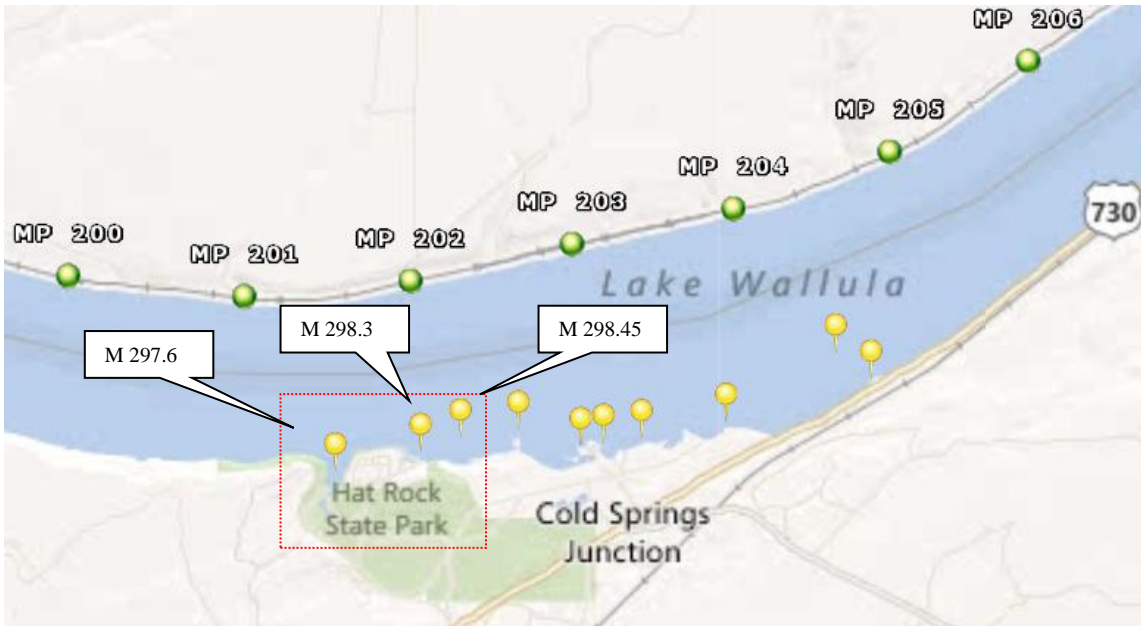
Fallbridge Subdivision MP 217 – 200 B



## Fallbridge Subdivision MP 217 – 200 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-299.8	First island north of Cold Springs Junction.	Exclusion - Prevent oil from enteign shallow water habitat on Oregon side of river.	500'	Use 500' of exclusion boom to send oil into main Columbia River channel.
M-299.4	NE point of peninsula jutting out, north of Cold Springs Junction.	Exclusion - Prevent oil from enteign shallow water habitat on Oregon side of river.	2000'	Use 2000' of excluision boom to close off shallow water entrances and send oil into main Columbia River channel.
M-299.05 M-298.7	The two largest islands east of Hat Rock State Park.	Exclusion - Prevent oil from enteign shallow water habitat on Oregon side of river.	(1) 700' (1) 300'	Use 1000' of exclusion boom to send oil into main Columbia River channel.

Fallbridge Subdivision MP 217 – 200 C

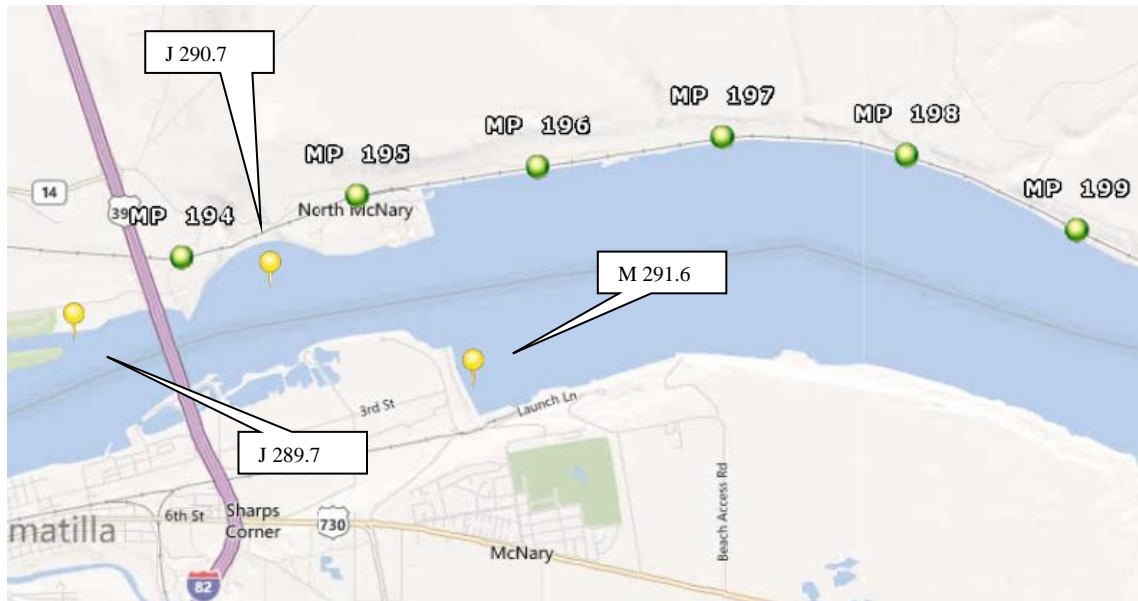


## Fallbridge Subdivision MP 217 – 200 C

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-298.45	Passageways between the two large islands east of Hat Rock State Park.	Exclusion - Prevent oil from entering shallow water habitat on Oregon side of river.	500'	Use 500' of exclusion boom in between islands.
M-298.3	Passageways between the two large islands east of Hat Rock State Park.	Exclusion - Prevent oil from entering shallow water habitat on Oregon side of river.	500'	Use 500' of exclusion boom in between islands.
M-297.6	Hat Rock State Park (Inlet).	Exclusion. Keep oil out of inlet at Hat Rock State Park.	1000'	Use 1000' at entrance for exclusion.



## Fallbridge Subdivision MP 217 – 194



## Fallbridge Subdivision MP 217 – 194

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
M-291.6	McNary Dam	Call USACE dam control center Walla Walla District to close fish ladder.		
J-290.7	NE of I-82 bridge, near Plymouth, WA.	Skimming - Prevent oil from traveling further downriver into the Umatilla refuge or islands across from Umatilla.		Use skimmers - portable to collect oil in natural collection northeast of the interstate bridge
J-289.7	Plymouth Park	Exclusion - Keep oil out of channel on north side of islands	1,200'	Use 1,000' of exclusion boom from NE tip of island to shore near the I-82 bridge. Use 200' for backup on first inlet if the exclusion boom fails.

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## Fallbridge Subdivision MP 217 – 191



## Fallbridge Subdivision MP 217 – 191

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-289.1 J-289.0	Boat ramp opening, S. side of Plymouth Park	Deflection - Keep oil off of S. shoreline of island	(2) 500'	Use 2 sections (500' each) of deflection boom angled to the SW. Deploy from west point at boat ramp entrance
J-288.6	Umatilla River	Exclusion - Keep oil out of river mouth	750' or 500'	Use 750' exclusion at mouth, or 500' along railroad trestle
J-287.7	SW end of Plymouth Park	Exclusion - Keep oil out of North channel	1,000'	Use 1,000' of exclusion boom angled from west point of island to the NW shoreline

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## Fallbridge Subdivision MP 205 – 188



## Fallbridge Subdivision MP 205 – 188

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-286.2	Second inlet west of Plymouth	Exclusion	500'	Use 500' of exclusion boom to close off the mouth of the cove.
J-286.1	Island between Irrigon and Umatilla, East entrance	Exclusion - Prevent oil from entering between island and shore	400'	Use 400' of boom to close off the east entrance to the backwater
J285.8	Island between Irrigon and Umatilla, North	Exclusion - Prevent oil from entering between	100'	Use 100' of boom to close off the north entrance to the backwater

	entrance	island and shore		
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Fallbridge Subdivision MP 205 – 184



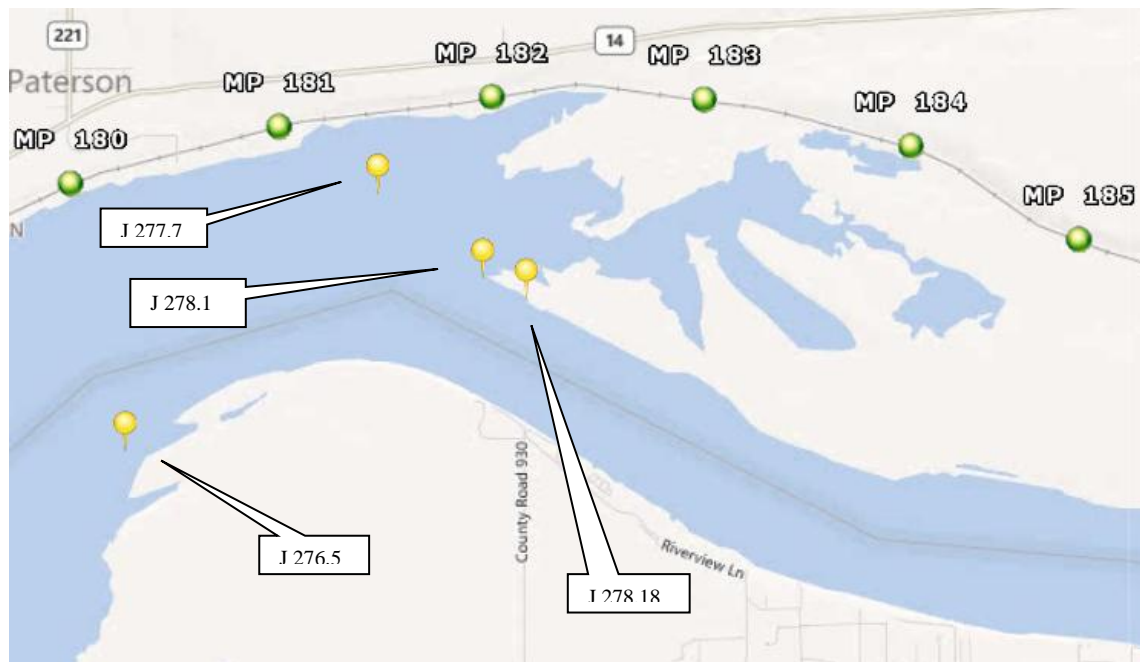
Fallbridge Subdivision MP 205 – 184

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-282.3 J-282.2	Shallow water area, WA. side, North of Irrigon, Oregon	Deflection	(2) 1000'	Use (2) 1,000' to send oil from shore into the middle of the Columbia. One should go before the island, the other off of the island.

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## Fallbridge Subdivision MP 205 – 180



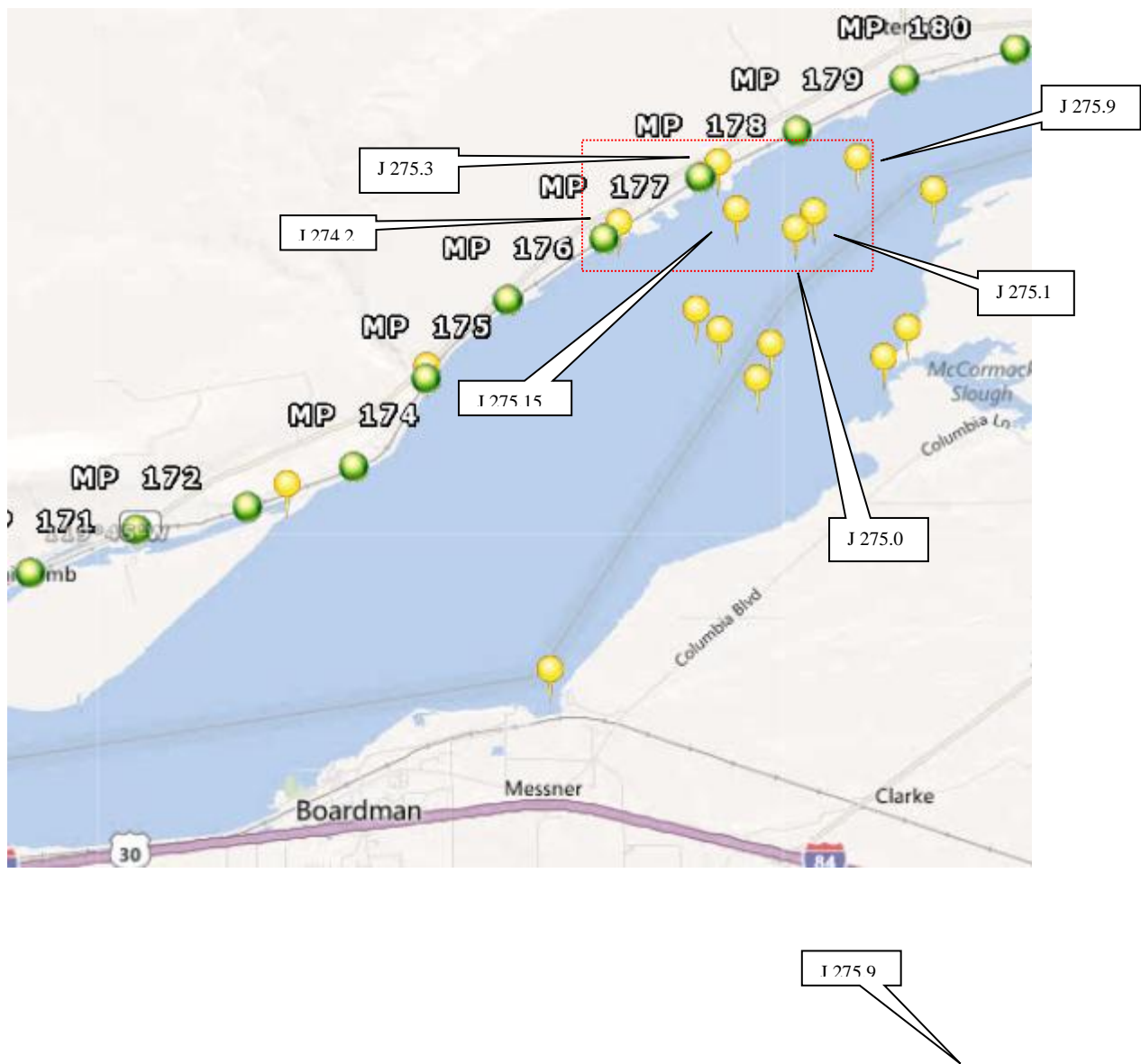
## Fallbridge Subdivision MP 205 – 180

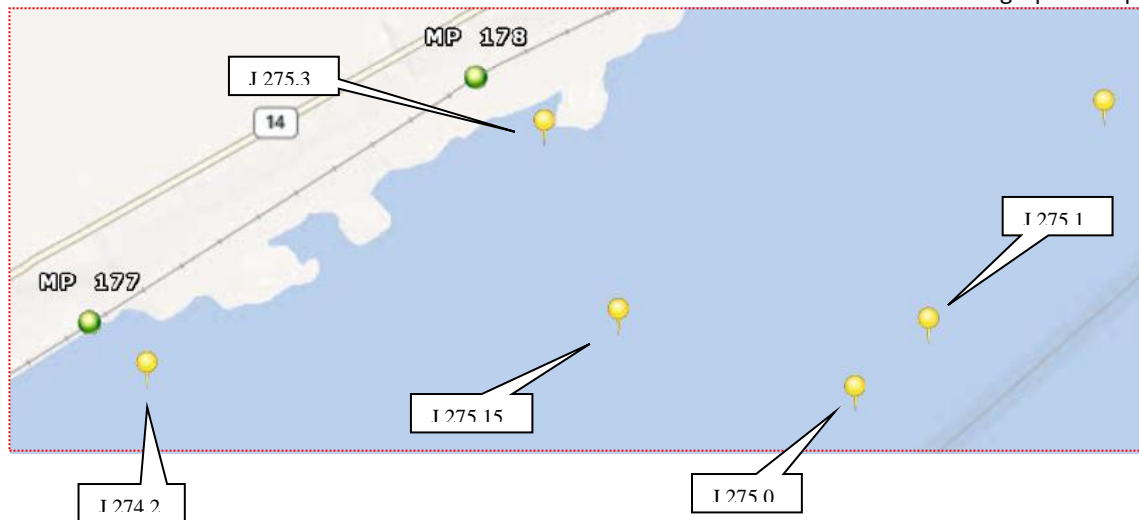
Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-278-18 J-278.1	WA. side, East end of abandoned railroad tracks	Deflection - Prevent oil from entering large shallow water area, north side of river. Potentially good collection area.	(2) 500'	Use 2 sections (500' each) of deflection boom at the east point of the abandoned RR bed, angled to the SW. Kick oil into the main channel.
J-277.7	Paterson Slough	Exclusion - Prevent oil from entering large shallow water area, north side of river	2900'	Use 2900' of exclusion boom to close off the entrance to shallow water area. anchor at ends to RR trestles

J-276.5	First set of small islands east of Long Walk Island	Exclusion	Approximately 1,500' (Boom lengths will vary depending on water level)	Use various lengths of boom to close off area east of Long Walk Island. Connect boom in between small islands at the east end of that channel.
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Fallbridge Subdivision MP 205 – 171 A

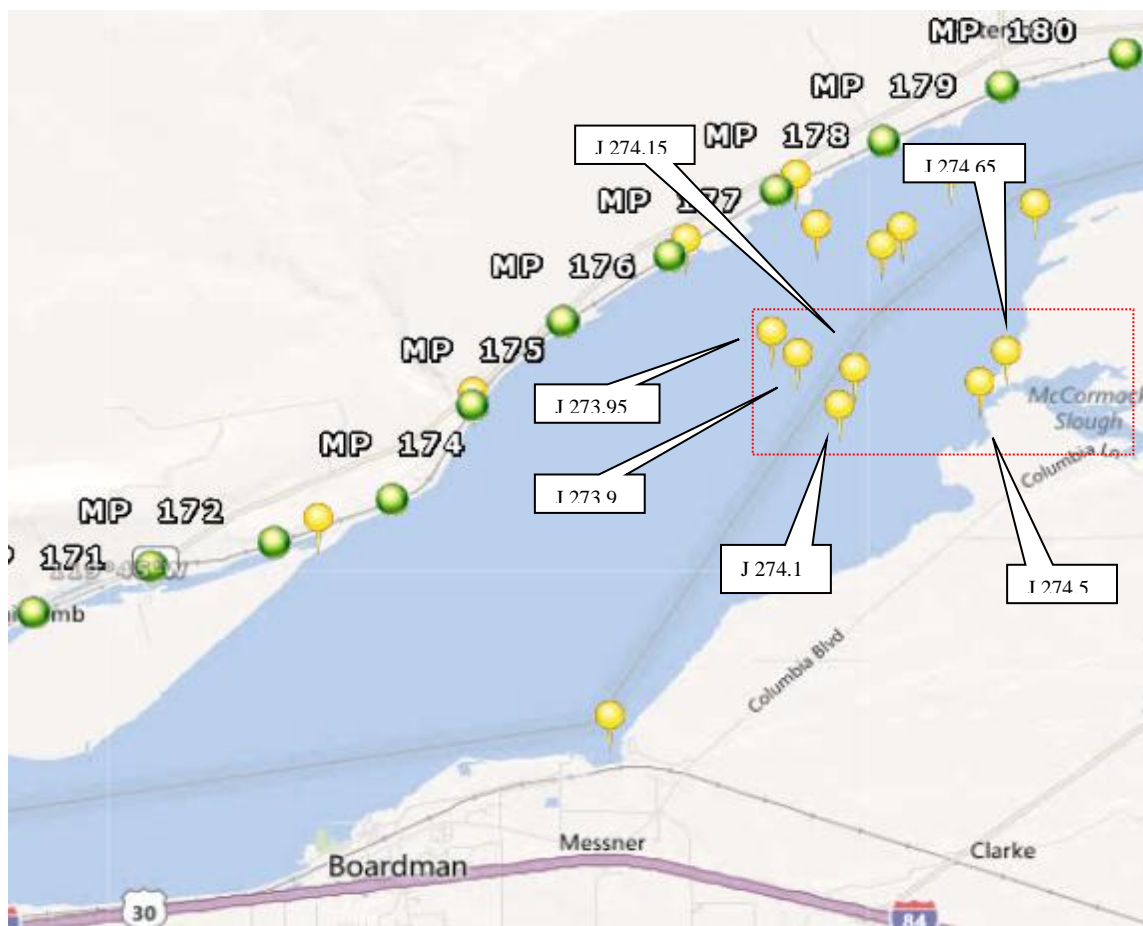


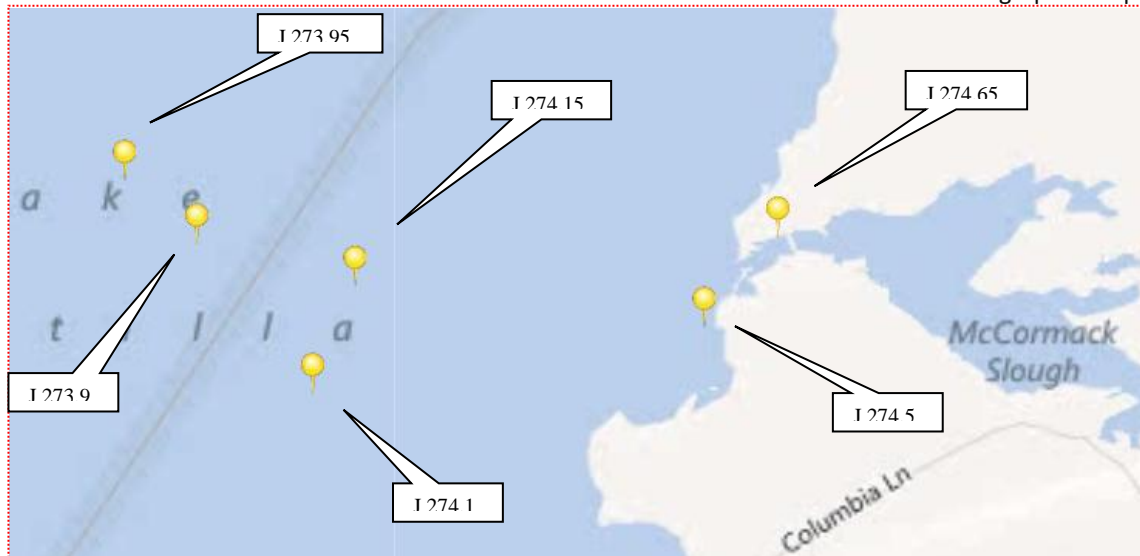


## Fallbridge Subdivision MP 205 – 171 A

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-275.9 J-275.15	NW corner, Big Blalock Is.	Deflection/ Exclusion - Keep oil out of the Blalock Island complex and into the main channel	(1) 1500' exclusion (1) 1000' deflection	Use deflection and exclusion boom to keep oil traveling in the North Channel from getting into the islands area. Connect booms from Big Blalock I. west to the smaller islands.
J-275.3 J-274.2	Abandoned RR trestle, NW of Big Blalock Is.	Deflection/Exclusion -Keep oil off shoreline	various	Use various lengths of deflection and exclusion boom along abandoned RR bed (Determine if this should be changed into numerous alternate strategies)
J-275.1 J-275.0	Big Blalock Is., two islands to the SW of Big Blalock	Exclusion/Deflection boom. Keep oil out of the Blalock Island complex and into the main channel	(2) 500' exclusion	Use (2) 500' booms to close off passages between Big Blalock Is., and Is. to the SW.

Fallbridge Subdivision MP 205 – 171 B





## Fallbridge Subdivision MP 205 – 171 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-274.65 J-274.5	Inlet/Shallow water area SE of Long Walk Island	Exclusion boom. Prevent oil from entering shallow water area.	(2) 200'	Use (2) 200' booms to close off entrance to waterway.
J-274.15	South end of Long Walk Island	Deflection - Keep oil out of shallow water habitat East of Long Walk Island	500'	Use 1 section (500') of deflection boom off the SW corner of the Island
J-274.1	South end of Long Walk Island	Exclusion boom.	1,000'	Use 1,000' of exclusion boom to close off entrance between long Walk Island and the island to the SW of it.
J-273.95	Between Sand Island and Island to the west	Exclusion - If oil does get into the islands, exclude it from this passageway	750'	Use 750' of exclusion boom across mouth of channel.
J-273.9	SE point of Sand Island	Deflection - Keep oil out of the Blalock Island complex and into the main channel	1,000'	Use 1,000' of deflection boom angled to the SW of the SE corner of Sand Island. Keep oil in the South Channel of the Columbia.

Fallbridge Subdivision MP 205 – 171 C



Fallbridge Subdivision MP 205 – 171 C



Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-272.3	Glade Creek	Exclusion - Keep oil out of creek mouth, marsh	100'	Use 100' of exclusion boom to close off mouth.
J-270.7	Inlet east of Messner	Skimming - Pick up oil in the inlet (Use natural collection area to protect downstream habitat). Possible use of collection boom.	1000' collection boom	Use skimmers portable and larger to remove surface oil
J-268.8	NE corner of Whitcomb Island	Exclusion - Keep oil out of Umatilla Wildlife Refuge, channel behind Whitcomb Is.	200'	Use 200' of exclusion boom to close off entrance to channel at NE end of Whitcomb Island.



Fallbridge Subdivision MP 190 – 167

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-265.55 J-265.2	West end of Whitcomb Island	Exclusion -	(1) 750' (1) 250'	750' across channel from Whitcomb Is. to outcropping south of Whitcomb. 200' from shoreline to outcropping.
J-264.5	East of Crow Butte Island.	Skimming (Enhanced) - Prevent oil from reaching shoreline areas	(2) 200' boom	Use skimmers, with or without enhancement, depending on what is called for
J-263.97 J-263.9 J-263.4	NE of Crow Butte Island	Exclusion - Prevent oil from entering valuable bird habitat, marshland near Crow Butte bridge	(1) 1500' (1) 500' (2) 200'approx. lengths	Close off culverts under Crow Butte Causeway. Use a series of four exclusion booms along north shore to close of marsh. Longest segment will be 1,500'. Others will be one under 500', and two under 200'.

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Fallbridge Subdivision MP 190 – 164





## Fallbridge Subdivision MP 190 – 164

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-261.8 J-261.58 J-261.45 J-261.3	West of Crow Butte Island	Skimming - Prevent oil from entering area north of Crow Butte Island	(2) 200 skimmer exclusion boom.	Depending of prevailing wind conditions, use skimmers in the mouth of the North channel.

Fallbridge Subdivision MP 190 – 161



## Fallbridge Subdivision MP 190 – 161

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-258.1	Alder Creek	Exclusion - Prevent oil from entering mouth of Alder Creek	100'	Use 100' of boom along trestle.
J-256.6	First inlet entrance, Threemile Canyon	Exclusion - Prevent oil from entering Threemile Canyon inlet.	500'	Use 500' from east point to spit extending from the first island. Use backup upriver if necessary. Shallow water.
J-255.9	Second inlet entrance, Threemile Canyon	Deflection - Prevent oil from entering Threemile Canyon inlet.	1,000' deflection	Use 1,000' of deflection boom from north point of island, angled to the NW. Shallow water.
J-255.7	Second inlet entrance, Threemile Canyon	Exclusion - Prevent oil from entering Threemile Canyon inlet.	500' exclusion	Use 500' exclusion boom from the west end of island to the spit at west end of inlet. Shallow water.

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Fallbridge Subdivision MP 190 – 156



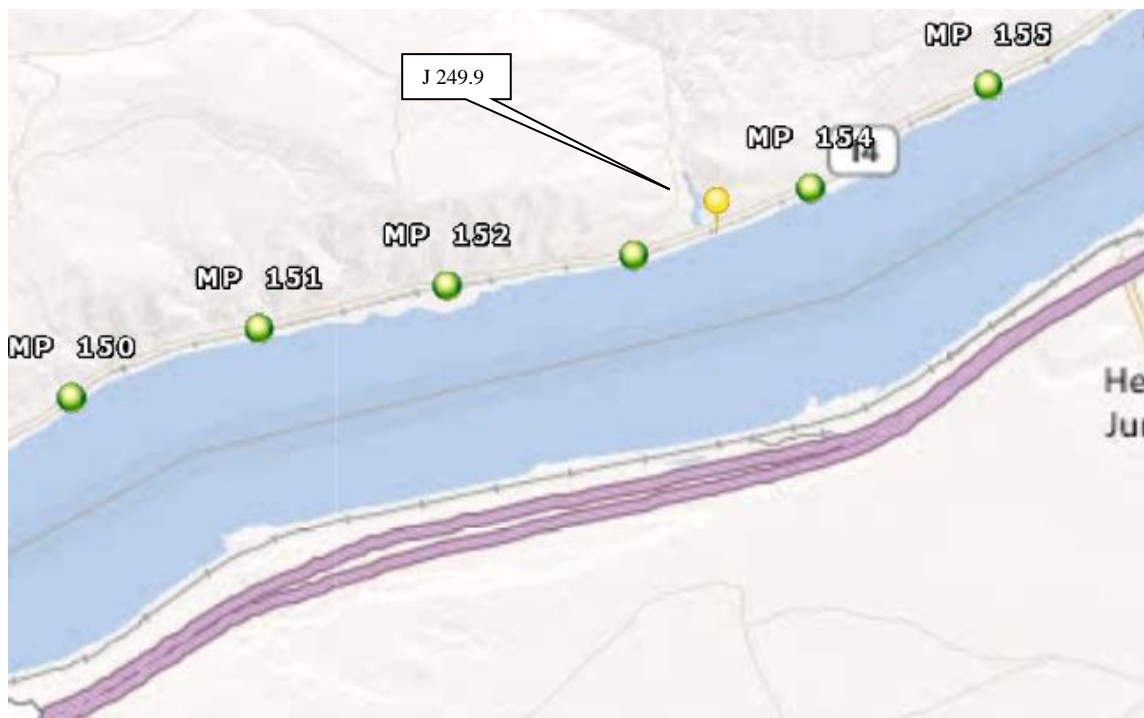




## Fallbridge Subdivision MP 190 – 156

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-255.0 J-254.6	Shallow water habitat, mile 255.8	Exclusion - Protect shallow water environment	(1) 1000' (1) 800'	Use 1000' of exclusion boom to close off NE corner of bay, 800' from spit to island to shore on west side of inlet.
J-253.1	Willow Creek	Exclusion - Prevent oil from entering Willow Creek. Potential collection area.	200'	Use 200' of exclusion boom across trestle over Willow Creek.

## Fallbridge Subdivision MP 165 – 150



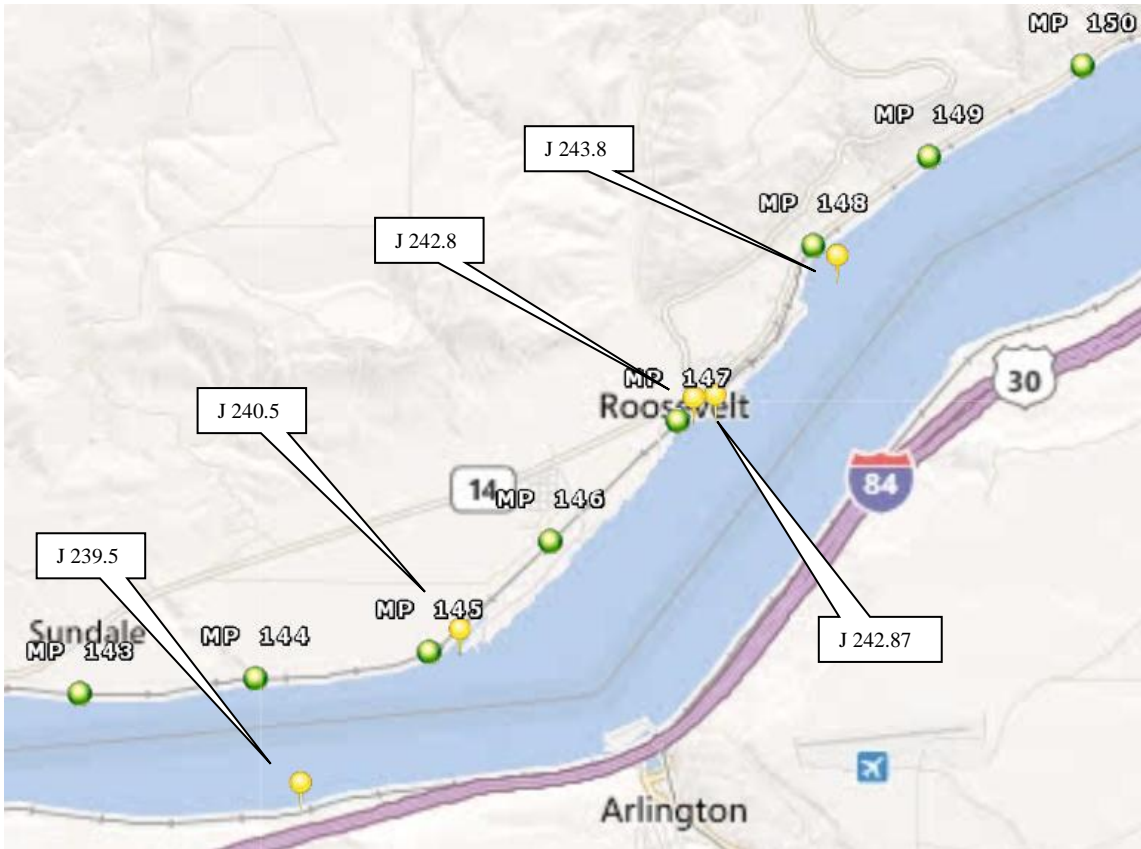
Fallbridge Subdivision MP 165 – 150

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-249.9	Pine Creek	Exclusion - Prevent oil from entering Pine Creek	(2) 100'	Use 2 sections (100' each) of exclusion boom across mouth of creek.

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Fallbridge Subdivision MP 165 – 143





Fallbridge Subdivision MP 165 – 143

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-243.8	East of Roosevelt	Skimming - Oil collection		Use skimmers and vac trucks to collect oil in natural collection area.
J-242.87 J-242.8	West of Roosevelt	Deflection - Protect shallow water environment	(2) 500'	Use 2 section (500' each) of deflection boom angled to the SW of the point on the river below the town of Roosevelt.
J-240.5	Inlet near Roosevelt boat ramp	Skimming - Oil collection	200'	Use skimmers, vac trucks to collect oil in natural collection area, inlet near boat ramp at Roosevelt; deploy 200' of deflection boom to direct oil to skimming area.
J-239.5	Jones Canyon	Exclusion - protect Jones Creek	100'	Use 100' across the mouth of Jones Creek

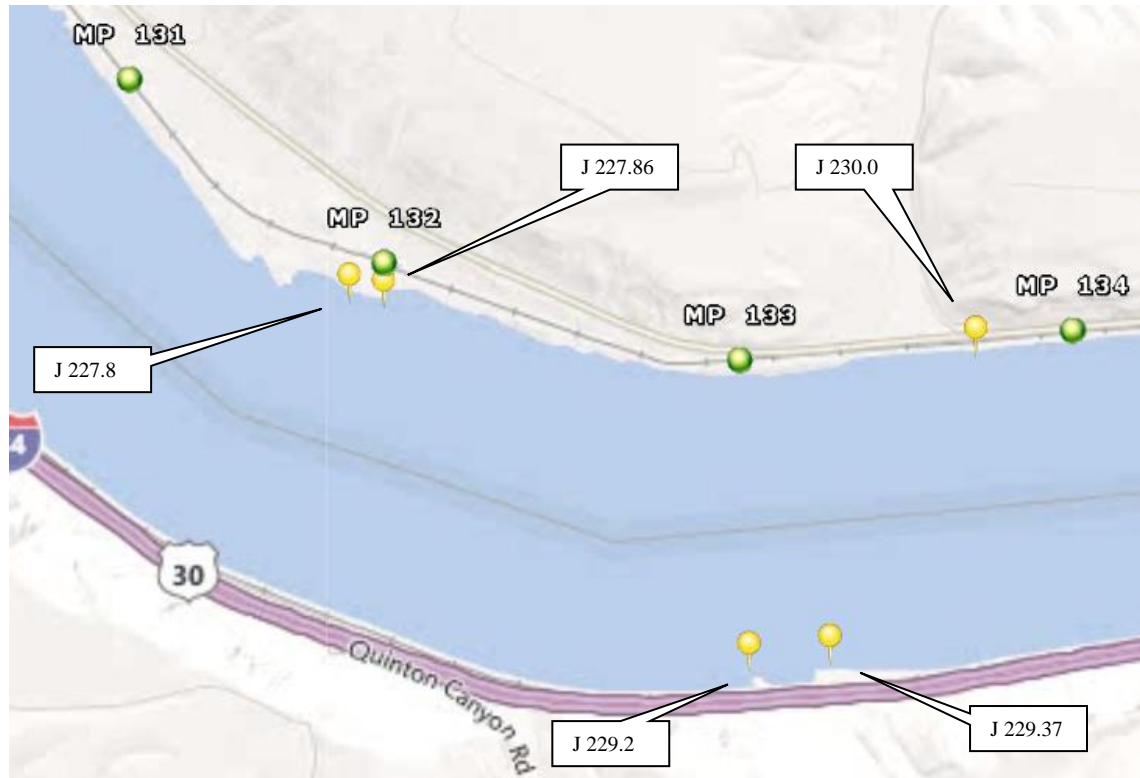


Fallbridge Subdivision MP 160 – 135

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-236.25	Sundale	Exclusion	100'	

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## Fallbridge Subdivision MP 160 – 131



## Fallbridge Subdivision MP 160 – 131

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-230.0	Rock Creek	Exclusion - prevent oil from entering Rock Creek	100'	Use 100' of exclusion boom across the highway/railroad trestle.
J-229.37 J-229.2	Across channel, south of JDP-42 before group of islands on Oregon side.	Deflect to skimmer.	(2) 500'	Use 2 sections (500' each) of deflection boom in tiers along the shore to hook oil into the middle of the channel. Anchor with drogues.
J-227.86 J-227.8	Islands SE of Goodnoe	Deflect to skimmer.	(2) 500'	Use 2 sections (500' each) of deflection boom in tiers along the shore to hook oil into the middle of the channel.



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Fallbridge Subdivision MP 145 – 125



Fallbridge Subdivision MP 145 – 125

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-225.1	NW of Quinton	Skimming - keep oil off shorelines		Use skimmers and vac trucks to pick up oil in natural collection area.

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## Fallbridge Subdivision MP 145 – 120

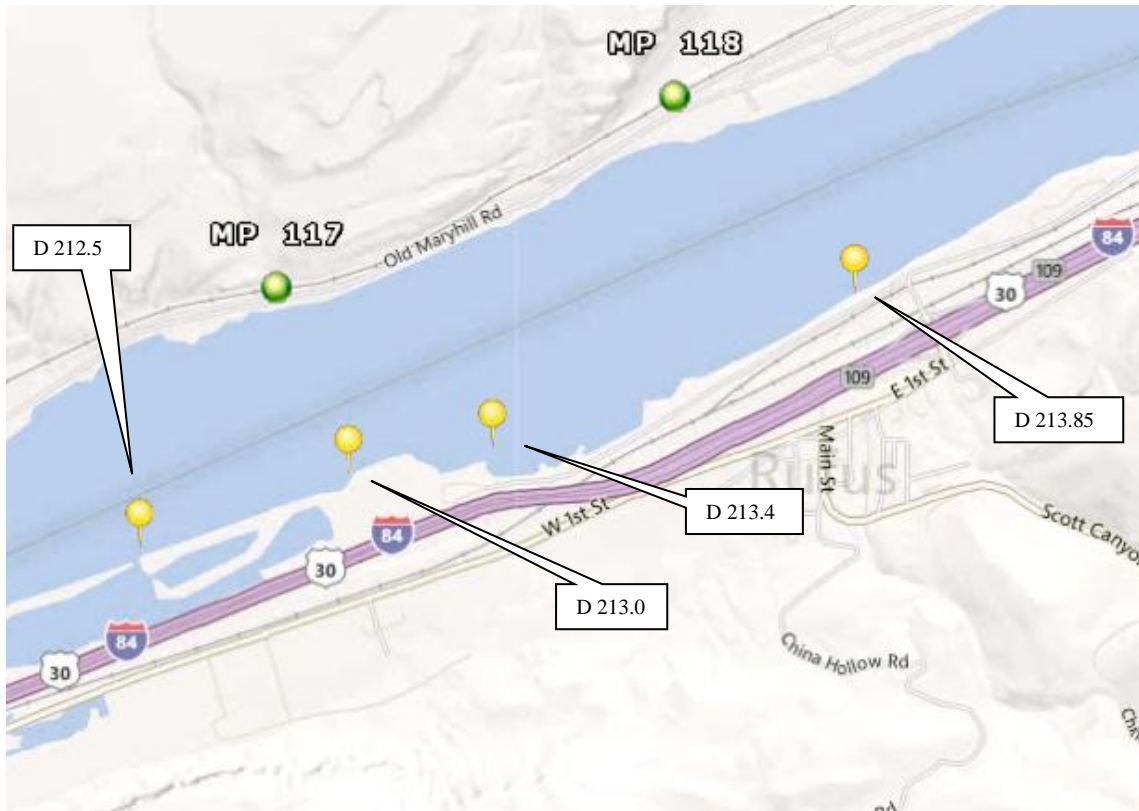


## Fallbridge Subdivision MP 145 – 120

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
J-219.1	John Day River mouth	Exclusion - keep oil from entering river mouth.	1,200'	Use 1,200' exclusion boom along RR or highway trestle on river.
J-217.3	Inlet just NW of John Day dam	Exclusion - keep oil out of inlet	100'	Close off culvert
J-216.6	Fish Ladder at John Day Dam			

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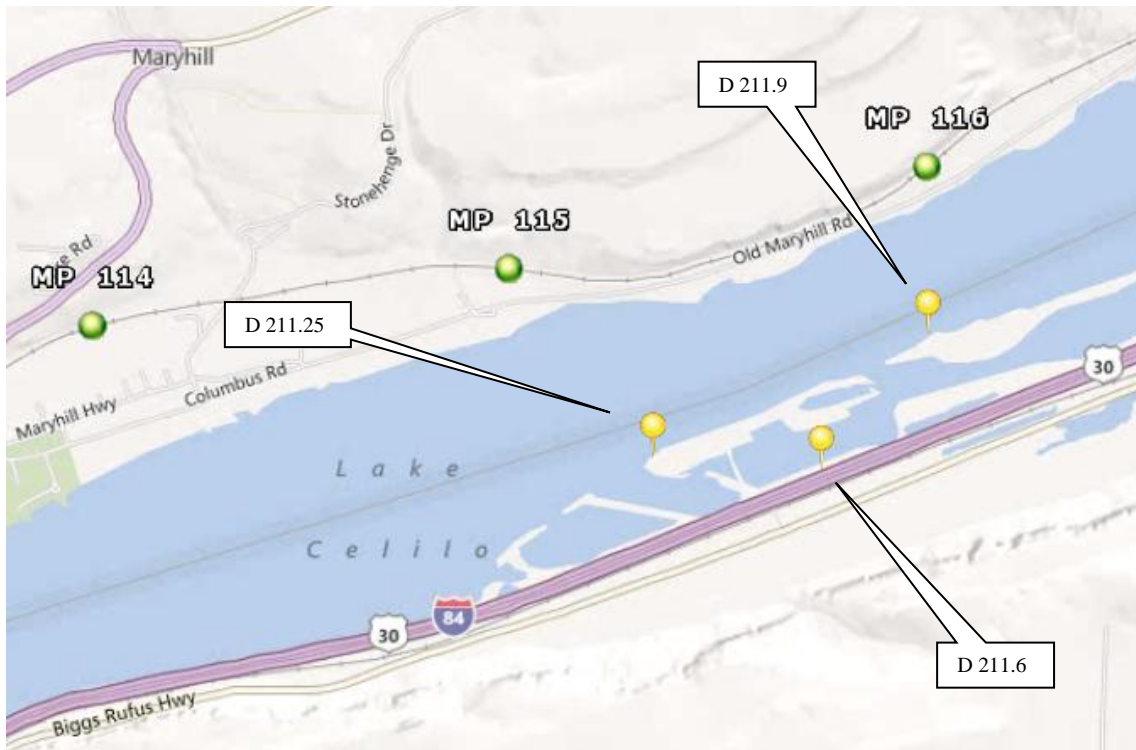
## Fallbridge Subdivision MP 145 – 117



## Fallbridge Subdivision MP 145 – 117

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
D-213.85	West of Rufus, OR	Deflection - Keep oil out of shallow water habitat area.	(1) 1000'	Use 1 section (1000') of deflection boom in tier off of point west of Rufus.
D-213.4	Next point west of D213.85	Deflection/ Collection - Keep oil out of shallow water habitat area.	(1) 1000'	Use 1 section (1000') of deflection boom in tier off of point west of Rufus. Collect if the wind is out of the NE. Use vac trucks for collection.
D-213.0 D-212.5	Four points between D213.4 and D-211.25, end of shallow water habitat.	Exclusion - Protect shallow water habitat.	Maximum of 800'	Use small amounts of exclusion boom to keep oil out backwater area. No segment will have to be greater than 200'.

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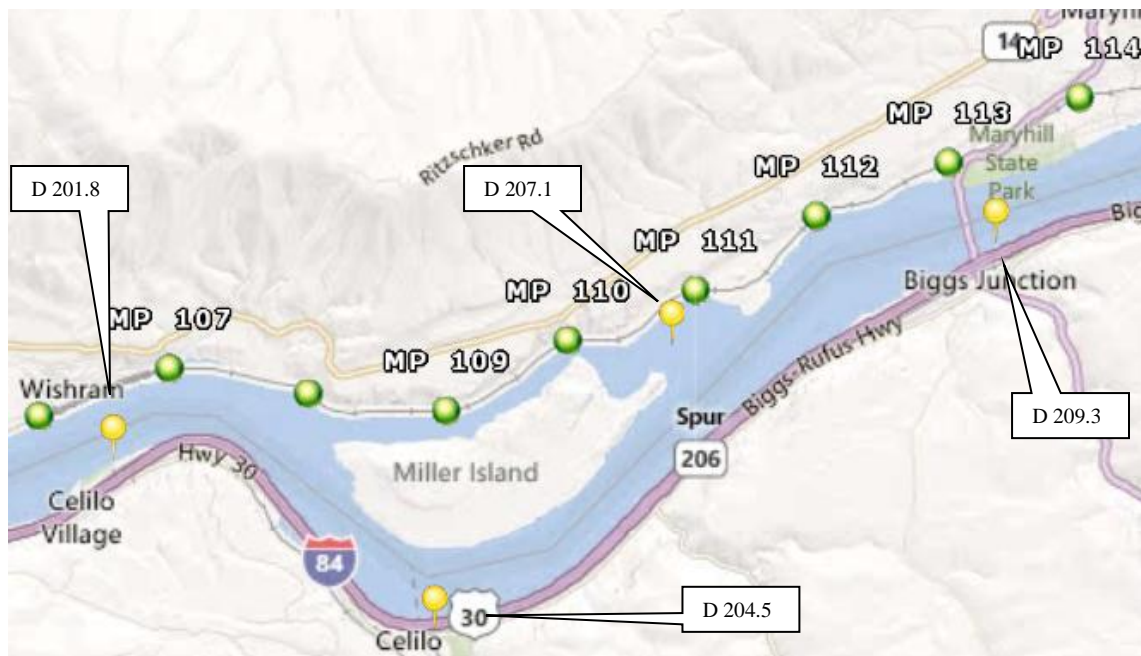
## Fallbridge Subdivision MP 135 – 114

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
D-211.9 D-211.6	Four points between D213.4 and D-211.25, end of shallow water habitat.	Exclusion - Protect shallow water habitat.	Maximum of 800'	Use small amounts of exclusion boom to keep oil out backwater area. No segment will have to be greater than 200'.
D-211.25	Oregon side, SE of Maryhill.	Deflection/Collection -Protect shallow water habitat.	(1) 1000'	Use 1 sections (1000') of deflection boom to send oil into the channel - anchor on the west islands of this group. Use skimmers for collection if that is the chosen strategy.



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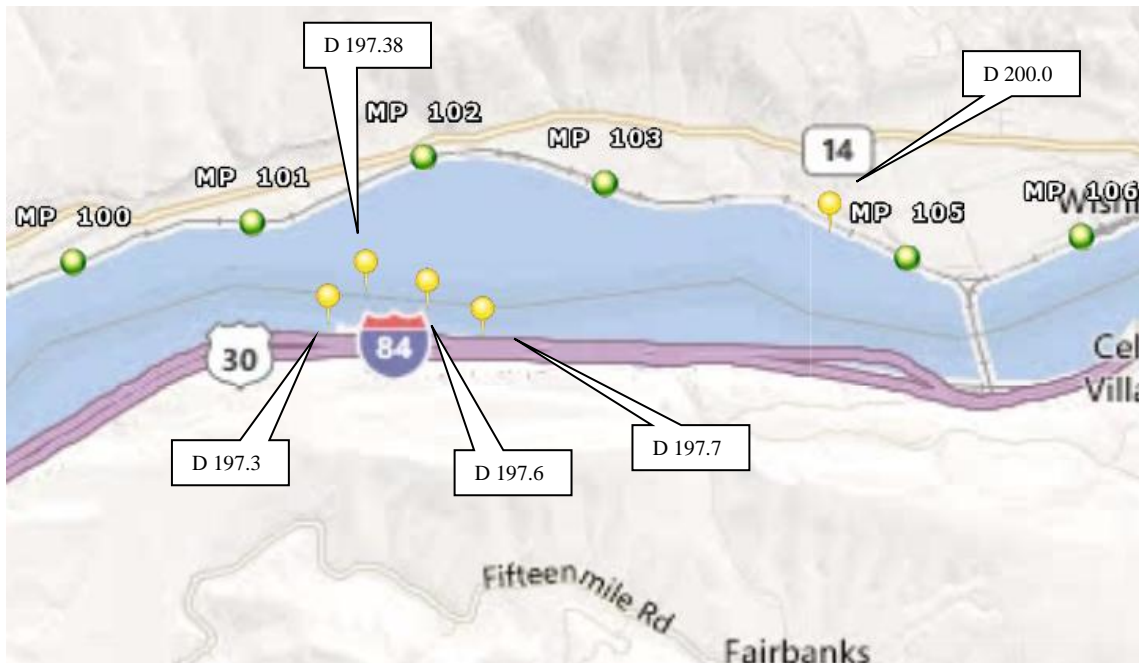


## Fallbridge Subdivision MP 125 – 106

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
D-209.3	Spanish Hollow creek mouth at Biggs Junction, Oregon	Exclusion - Prevent oil from entering creek mouth.	100' sorbent	Use 100' of sorbent boom to close off mouth of creek.
D-204.5	Deschutes River	Deflection or Exclusion - Prevent oil from entering Deschutes River mouth.	1,000' deflection or 500' sorbent	Use either 1,000' deflection to send oil into the main current or 500' exclusion tied to the RR trestle.
D-207.1	NE of Miller Island	Skimming - Keep oil out of north passage at Miller Island.		Use skimmers in the entrance to the North passage, collect in natural eddy area.
D-201.8	NE of Celilo, river bend	Deflection - Keep oil out of Celilo Park area.	(1) 1000'	Use 1 sections (1000') deflection boom to send oil into the main channel. Angle to the NW from point on river bend NE of Celilo.

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## Fallbridge Subdivision MP 125 – 100

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
D-200	Riverbend west of Wishram, WA.	Skimming - Prevent oil from traveling further downstream.		Use skimmers to collect oil at natural eddy area west and north of Wishram, WA.
D-197.7 D-197.6	Islands south of Browns Island	Deflection/ Exclusion - Keep oil out of shallow water habitat on Oregon side.	2 (500') of deflection or 400' in exclusion	Use deflection boom off of shore just south of the west end of Browns Island. Otherwise, use exclusion boom at entrances to shallow water habitat, 300' and 100' in length.
D-197.38 D-197.3	Island SW of Browns Island	Deflection - Keep oil out of shallow water habitat on Oregon side.	(2) 500'	Use 2 sections (500' each) of deflection boom in tiers off the island.

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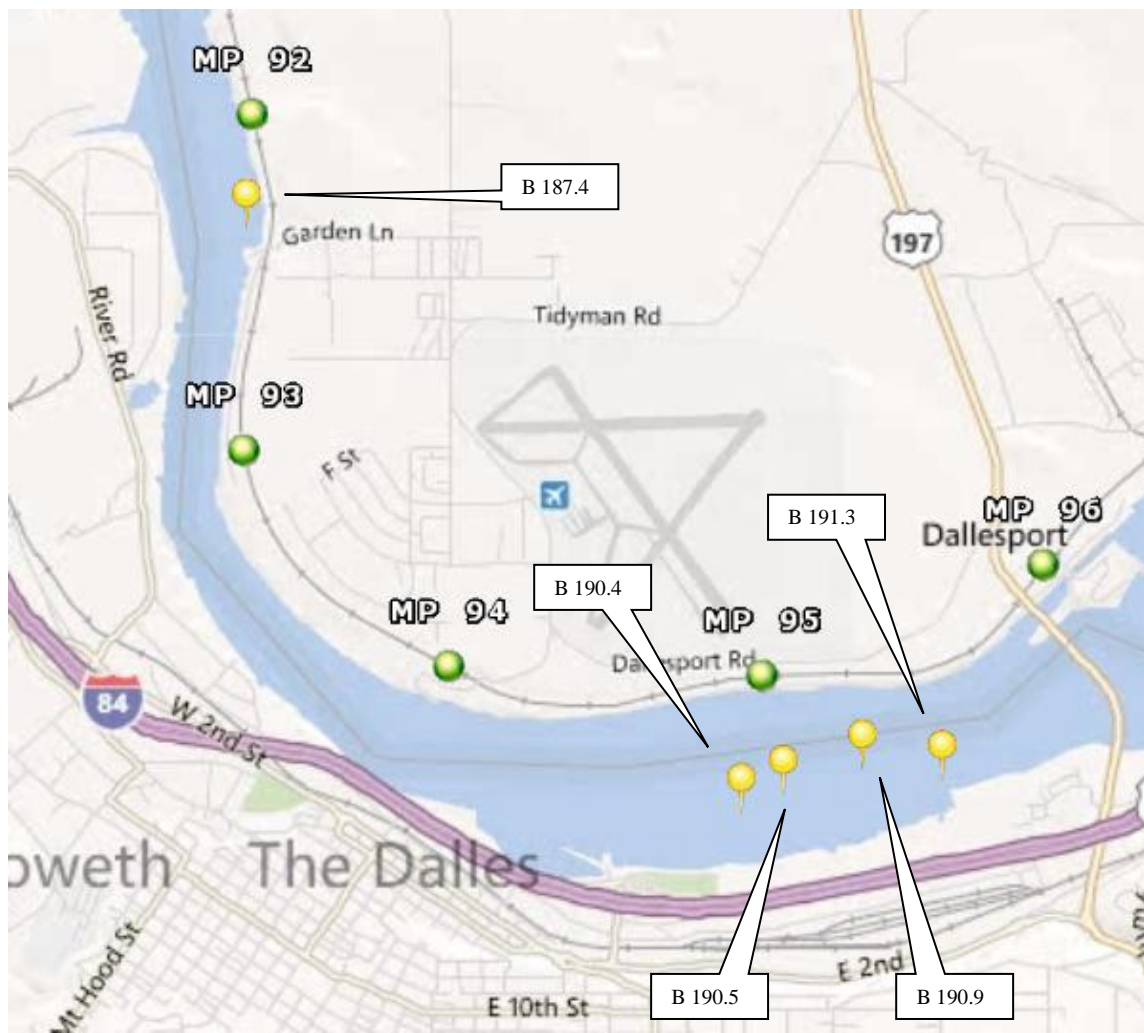
Fallbridge Subdivision MP 125 – 96



## Fallbridge Subdivision MP 125 – 96

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
D-195	OR. side, across from Horsethief Lake	Skimming - Prevent oil from traveling further downriver.		Use skimmers to collect oil in natural eddy area along Oregon side.
D-194.7	Horsethief Lake	Exclusion - keep oil out of lake	500' exclusion	Place boom across entrance to lake
D-193.4	Dalles Dam	Exclusion - keep oil out of fish ladder	100' exclusion	Place boom across top of fish ladder
B-193.3	Fish ladder, the Dalles Dam	Exclusion - Prevent oil from entering the fish ladder area.		Shut down the flow through the fish ladder to protect area.
D-193.2	Dalles Dam	Collection	1000'	Use boom to deflect/collect along log boom
D-193	Lake Celilo pool above dam	Enhanced Skimming - Prevent oil from moving below dam		Use skimmers above dam to collect oil to keep oil off bottom where sturgeon are spawning
B-193	15 Mile Creek	Exclusion - Prevent oil from entering/exiting 15 Mile Creek	100' exclusion	Coordinate with USOC Telephone

Fallbridge Subdivision MP 110 – 92





## Fallbridge Subdivision MP 110 – 92

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-191.3 B-190.9 B-190.5 B-190.4	Islands NE of The Dalles	Deflection/ Exclusion - Keep oil out of Three Mile Rapids	1,000' deflection, approx. 600' exclusion	Use 1,000' of deflection boom as needed to send oil to the main channel - use various lengths of exclusion boom -no segment should be greater than 200' for spaces between islands.
B-187.4	WA. side, NW of The Dalles Airport	Skimming - Prevent oil from traveling further downriver.		Use skimmers to collect oil in natural eddy area. Pick up with vac trucks on shore as well.

Fallbridge Subdivision MP 100 – 83



## Fallbridge Subdivision MP 100 – 83

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-186.3 B-185.9	Island NW of strategy B187.4	Exclusion - Prevent oil from entering channel between the island and the shore.	400' exclusion	Use approximately 200' of exclusion boom on both the south and northwest sides of the island.
B-182.5	Inlet between Rowena and Squally Pt.	Exclusion - Keep oil out of slough.	2300' exclusion	Use 2300' of exclusion boom to close off inlet mouth.
B-181.2	Inlet, Mayer State Park	Exclusion - Prevent oil from entering inlet at Mayer State Park.	300' - 1800' exclusion - depending on water pool level	Use 300' to 1800' of exclusion boom to close off inlet mouth.
B-180.1	Mouth of Klickitat River	Exclusion boom - keep oil out of river mouth	2 (500)' exclusion	Place chevron at mouth of river
B-179.6	Chamberlain Lake	Exclusion boom - keep oil out of Chamberlain Lake	200' exclusion	Use 200' of exclusion boom to close off access to Chamberlain Lake.

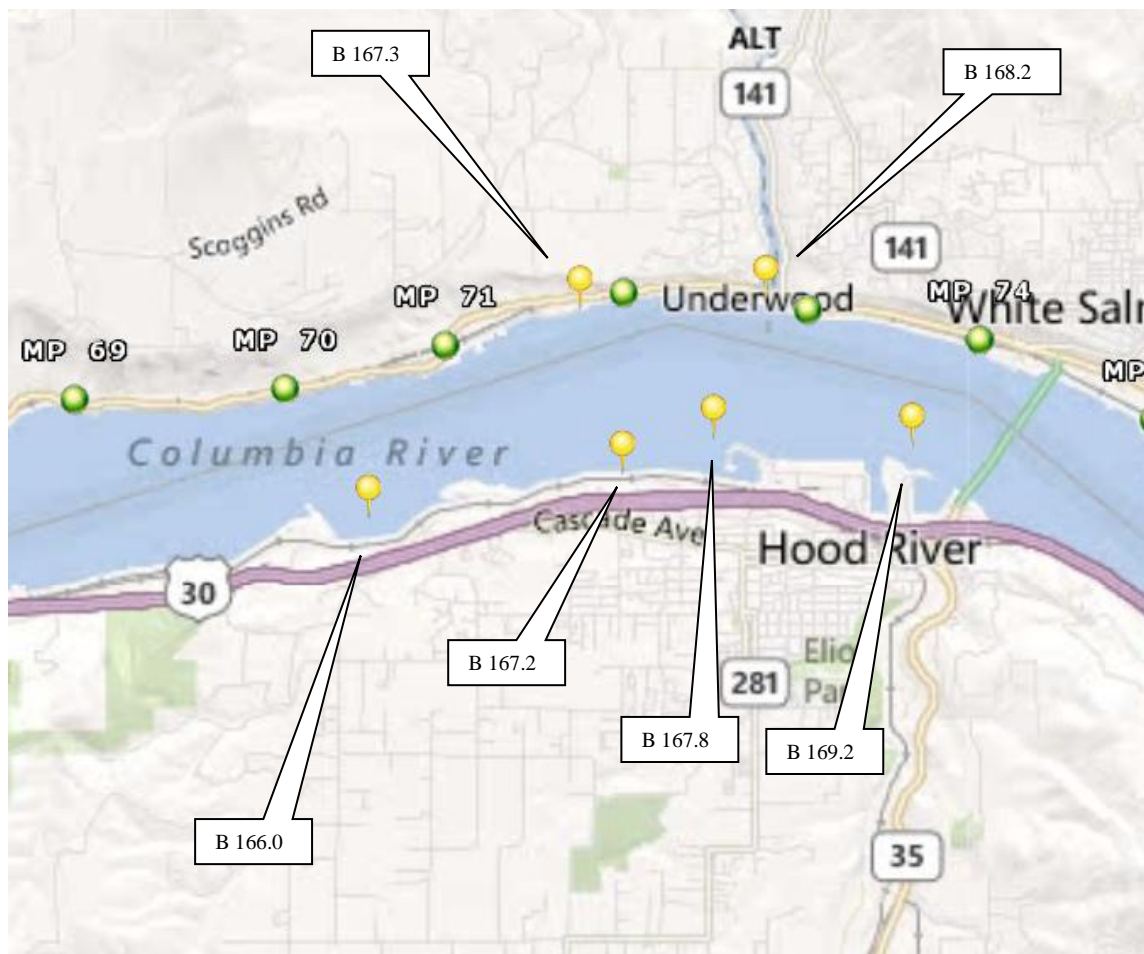
Fallbridge Subdivision MP 90 – 74



## Fallbridge Subdivision MP 90 – 74

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-172	Bingen Marina	Exclusion - Keep oil out of Bingen Marina area.	200' exclusion	Use 200' to close off mouth of lake - leave opening or monitor boom to allow vessels in and out.
B-171.2	Inlet west of Bingen Marina	Exclusion - Prevent oil from entering inlet.	500' exclusion	Use 500' exclusion boom to close off inlet below Bingen.
B-170.9 B-170.65 B-170.6	Peninsula NW of Bingen	Deflection/Exclusion -Protect inlet, send oil into main channel to keep away from shallow water habitat.	(2) 500' deflection (1) 500' exclusion	500' deflection boom angling west from the southwest midpoint of the peninsula, 500' of exclusion boom across mouth of inlet, 500' tiered deflection boom angling west from the point of the peninsula.

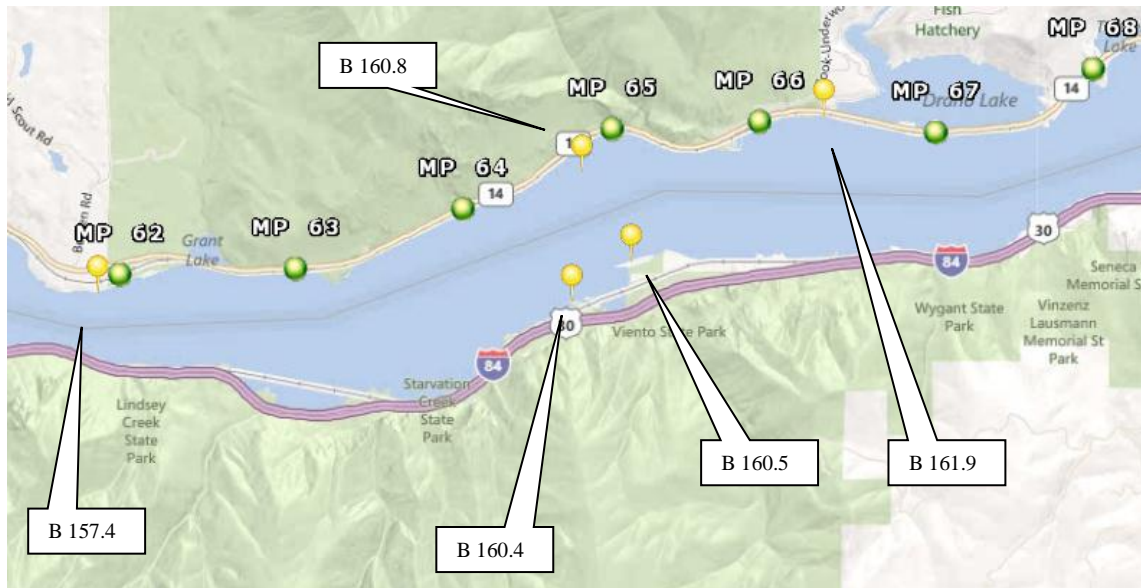
## Fallbridge Subdivision MP 90 – 69



## Fallbridge Subdivision MP 90 – 69

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-169.2	Hood River	Deflection/Exclusion - Protect Hood River	1,000' deflection, 300' exclusion	Use 1,000' of deflection boom angled NW from the east shore of the Hood River to send oil into main channel. Use 300' exclusion across river mouth as a backup.
B-168.2	White Salmon River	Deflection - Prevent oil from entering the mouth of the White Salmon.	500' deflection	Use 500' for tiered deflection boom, SE of river mouth, angling SW.
B-167.8 B-167.2	Wells Island	Exclusion - Keep oil out of lake to the south of Wells Island	(1) 900' exclusion (1) 500' exclusion	Use 900' of exclusion boom on SE end of island - on east side to outcropping. Use 500' on south side to shoreline.
B-167.3	Spring Creek Hatchery Intakes	Protect fish ladder in August and September.		Notify hatchery managers to shut down intakes (509-4931730; 7:30-4:00 daily).
B-166	East of Ruthton, OR.	Skimming - Prevent oil from traveling further downriver.		Use skimmers in natural collection area.

## Fallbridge Subdivision MP 90 – 62



## Fallbridge Subdivision MP 90 – 62

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-161.9	Drano Lake/Little White Salmon River	Exclusion - Keep oil out of Drano Lake	200' exclusion, + whatever is needed for waterfowl areas.	Use 200' at entrance to lake, boom winter waterfowl areas along the culverts.
B-160.5	West of Viento, OR.	Skimming - Prevent oil from traveling further downriver.		Use skimmers in natural collection area.
B-160.8	West of Cook, WA.	Skimming - Prevent oil from traveling further downriver.		Use skimmers in natural collection area.
B-160.4			200' exclusion	
B-157.4	Collins Point	Deflection - Keep oil off shoreline, fisheries habitat.	1,000' deflection	Use 1,000' of deflection boom in tiers angling SW from Collins Pt.



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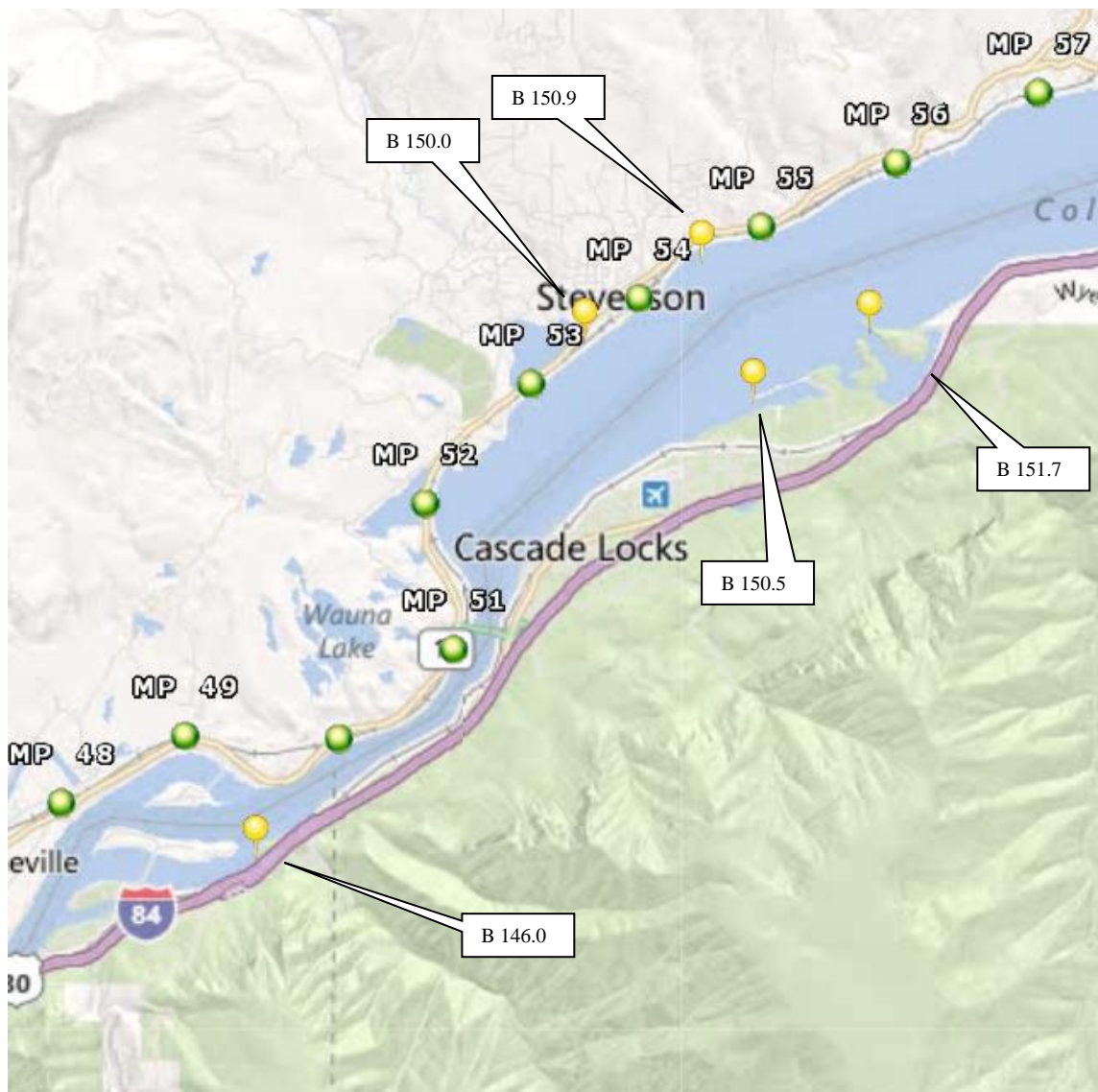


## Fallbridge Subdivision MP 90 – 56

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-155.5	Wyeth boat ramp area	Exclusion - Prevent oil from entering Wyeth inlet.	200' exclusion	Use 200' of exclusion boom to shut off mouth - tend boom to let vessels in and out of area.
B-154.76 B-154.7	Wind River	Deflection - Keep oil off shoreline, fisheries habitat.	(2) 500' deflection	Use 2 sections (500' each) of deflection boom in tiers angling SW.
B-154.5	Wind River	Exclusion - Prevent oil from entering wind river.	(2) 500' exclusion	Use 2 sections (500' each) of exclusion boom angling from south from both the northwest and southwest corner of the rivers mouth.
B-153.9	West of Wind River mouth	Skimming - Prevent oil from traveling further downriver.		Use skimmers in natural collection area.

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Fallbridge Subdivision MP 75 – 48



## Fallbridge Subdivision MP 75 – 48

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
B-151.7	Government Cove	Exclusion - Keep oil out of Gov't Cove.	400' exclusion	Use 400' exclusion to close off mouth.
B-150.5	Herman Creek	Exclusion - Protect Herman Creek	500' exclusion	Use 500' to close off southern access to Herman Creek cove (OR). Boom from point to shoreline.
B-150.9	NE of Stevenson, WA	Skimming - Prevent oil from traveling further downriver.		Use skimmers in natural collection area.
B-150	Rock Cove	Exclusion - Keep oil out of Rock Cove	200' exclusion	Use 200' of exclusion boom to close off Rock Creek mouth between Stevenson and RR trestle.
B-146	Eagle Creek	Exclusion - Prevent oil from entering Eagle Creek.	100'-200' exclusion	Use 100' - 200' exclusion boom across RR trestle at mouth of Eagle Creek

Fallbridge Subdivision MP 70 – 40

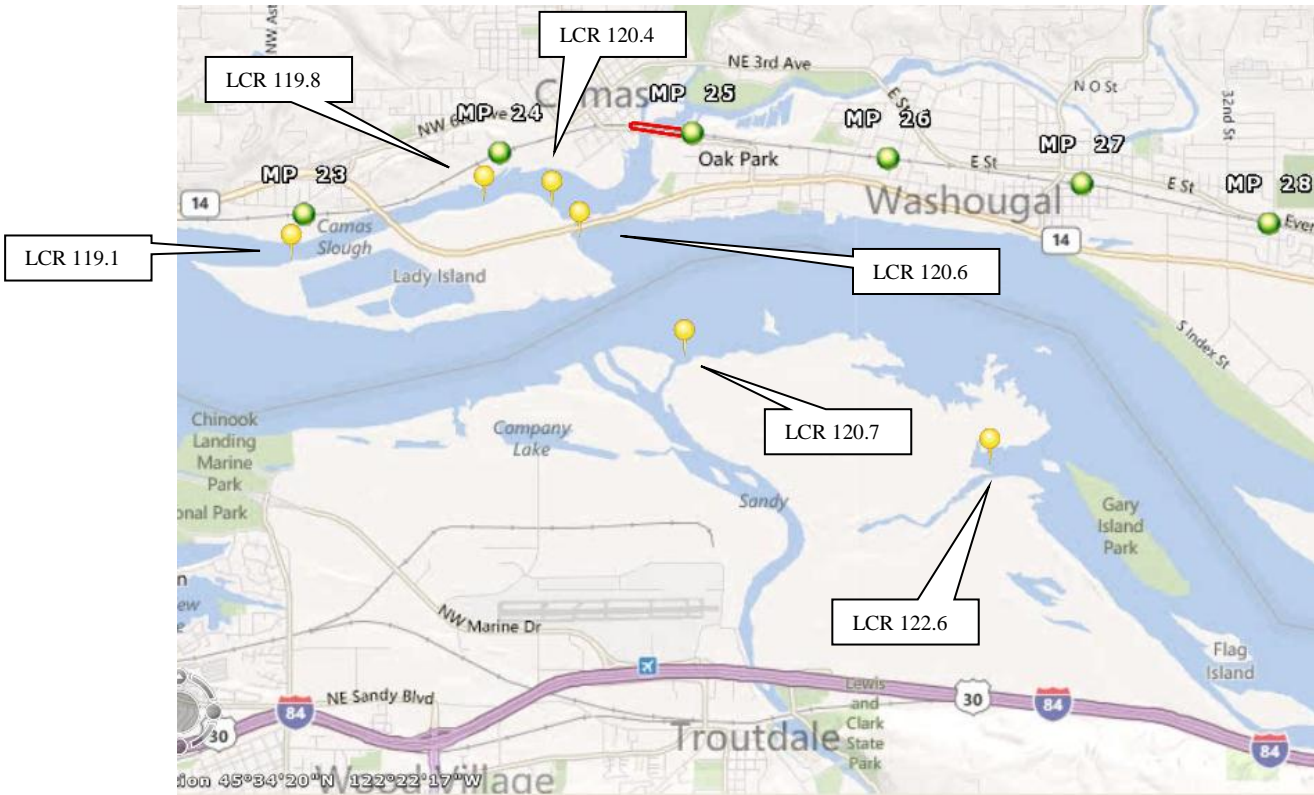


## Fallbridge Subdivision MP 70 – 40

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
LCR-143.1	Channel between Ives and Hamilton Islands (WA) 45°-37.565'N 121°-59.155'W	Deflection/ Exclusion - Keep oil in the main channel and out of north channel.	800'	Deploy boom between Ives and Hamilton Islands at the narrowest point (if not feasible, not a priority). Minimize disturbance of shoreline and back-beach areas. Use established roads only for vehicle access.
LCR-142.8	Greenleaf Slough (WA) 45°-37.658'N 121°-59.665'W	Exclusion - Prevent oil from entering slough.	400'	Boom off entrance to Hamilton Creek. Minimize disturbance of shoreline and back-beach areas around creek mouth. Use established roads only for vehicle access.
LCR-142.4	Channel between Ives and Pierce Islands (WA) 45°-37.270'N 121°-59.885'W	Deflection/ Exclusion - Keep oil in the main channel and out of north channel.	700'	Deploy boom between Pierce and Ives Islands at the narrowest point (if not feasible, not a priority).
LCR-141.4	Hardy Slough/ Creek (WA) 45°-37.573'N 122°-00.985'W	Exclusion - Keep oil out of the slough/ creek.	400'	Deploy boom across the mouth of the creek.
LCR-138.0	Horsetail / Oneonta Creeks (OR) 45°-35.520'N 122°-04.522'W	Exclusion - Keep oil out of creeks.	100'	Deploy boom across the mouth of the creeks.
LCR-137.0	Franz Lake (WA) 45°-36.013'N 122°-06.345'W	Exclusion - Keep oil out of lake.	200'	Deploy boom across the entrance to the lake.



Fallbridge Subdivision MP 50 – 23

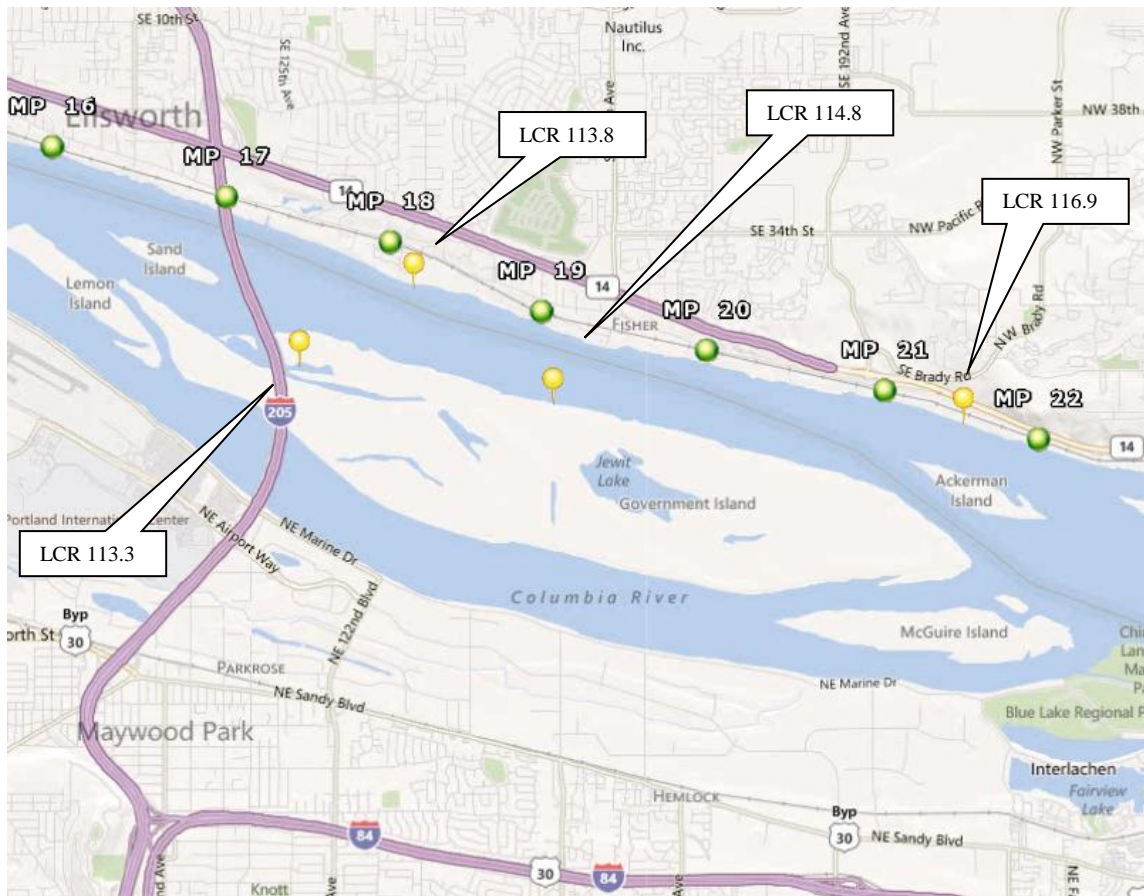




## Fallbridge Subdivision MP 50 – 23

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
LCR-122.6	Sandy River - east side of mouth (OR) 45°-33.680'N 122°-21.860'W	Deflection/ Exclusion - Keep oil out of river mouth.	900'	Boom off entrances on the east side of the river mouth. The position and number of the entrances is variable due to shifting delta sediments and also depends on river flow.
LCR-120.7	Sandy River - west side of mouth (OR) 45°-34.022'N 122°-23.550'W	Deflection - Keep oil out of river mouth.	500'	Deploy boom from the northeast corner of the west entrance to the Sandy River at an angle to deflect oil moving down the Columbia River back into the main channel.
LCR-120.6	Mouth of Washougal River (WA) 45°-34.625'N 122°-24.153'W	Exclusion - Keep oil out of the Washougal River and Camas Slough.	400'	Deploy boom at the bridge to Lady Island.
LCR-120.4	Camas Slough - upstream (WA) 45°-34.850'N 122°-24.377'W	Deflection/ Collection - Keep oil in or out of the slough depending on source.	800'	During low flows it is possible to boom off the east end of Camas slough.
LCR-119.8	Camas Slough - east of the Hwy14 bridge (WA) 45°-34.782'N 122°-25.028'W	Collection -Prevent oil from moving down stream.	800'	Deploy boom from the north side of the slough at the Fort James Camas wood mill at a SE angle across the slough. Collect with vac trucks from the north shore.
LCR-119.1	Camas Slough - downstream (WA) 45°-34.385'N 122°-25.955'W	Deflection/ Collection - Keep oil in or out of the slough depending on source.	800'	At low flow, it is possible to boom off Camas Slough. Angle the boom for collection on the south shore of the slough at a road to the water at the west end of the sewage pond on Lady Island. Angle the boom depending on if the source of the oil is from the river or the slough.

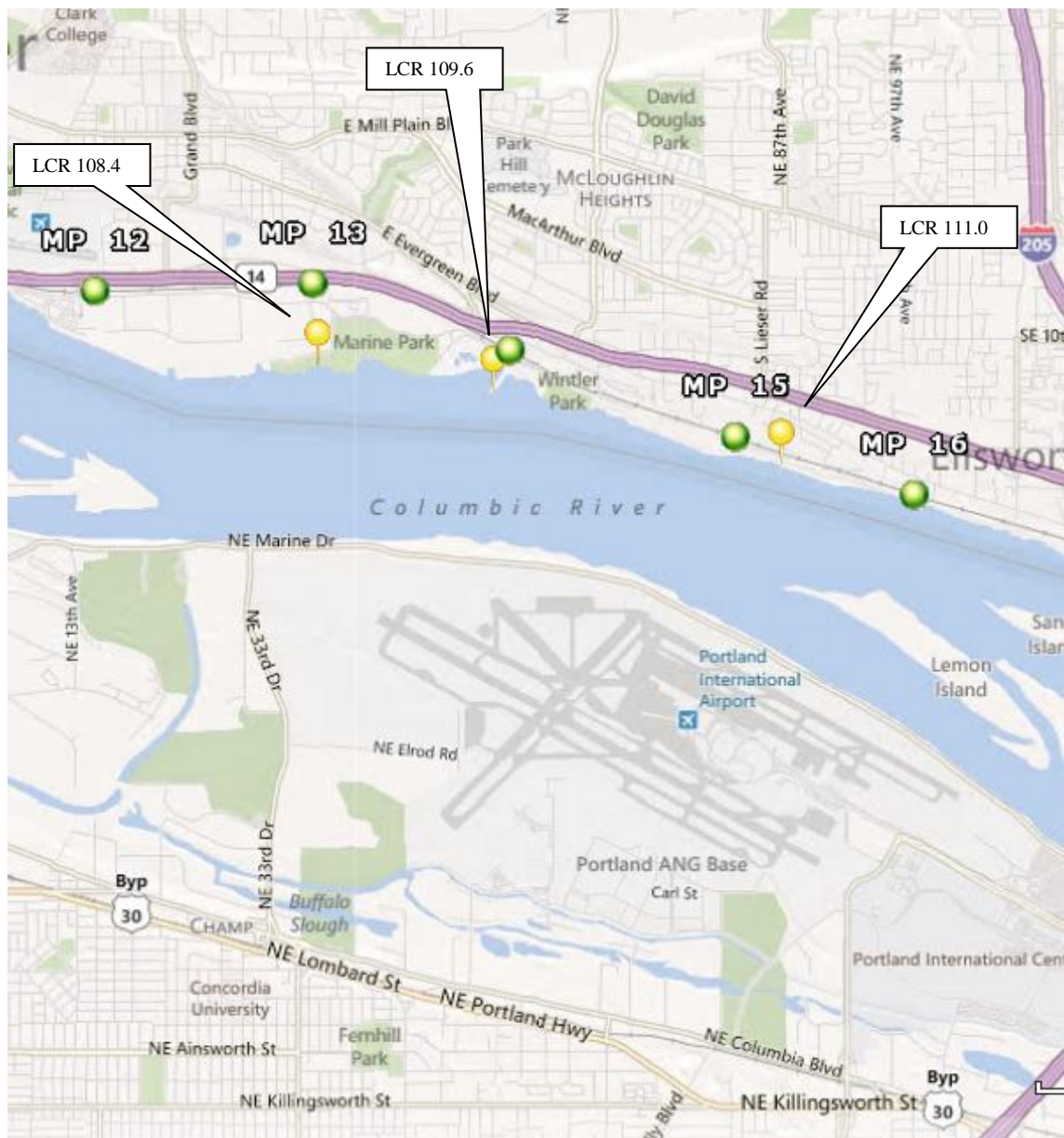
Fallbridge Subdivision MP 40 – 16



## Fallbridge Subdivision MP 40 – 16

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
LCR-116.9	Sentry Gravel Pit (WA) 45°-34.845'N 122°-27.665'W	Collection -Prevent oil from moving down stream.	400'	Deploy 2 lengths of 200' angled into the current to collect oil at the shoreline.
LCR-114.8	Jewit Lake intake (just downriver from Port of Portland Government Island dock) (OR) 45°-34.915'N 122°-30.517'W	Exclusion - Keep oil from entering Jewit Lake.	100'	Boom off weir (water enters lake only at high water) - may be able to close weir valve.
LCR-113.8	Steamboat Landing (WA) 45°-35.530'N 122°-31.675'W	Collection -Collect on upriver side of jetty.	300'	Anchor boom to jetty, & angle into channel. Collect oil with barges. Culvert in jetty may need to be plugged.
LCR-113.3	Government Island I-205 bridge slough (OR) 45°-35.137'N 122°-32.525'W	Exclusion -Prevent oil from entering slough.	600'	Place two 300' sections across slough entrances just east of I-205 bridge. Use pilings for anchor points. Note -natural eddy will bring oil inside.

Fallbridge Subdivision MP 40 – 12



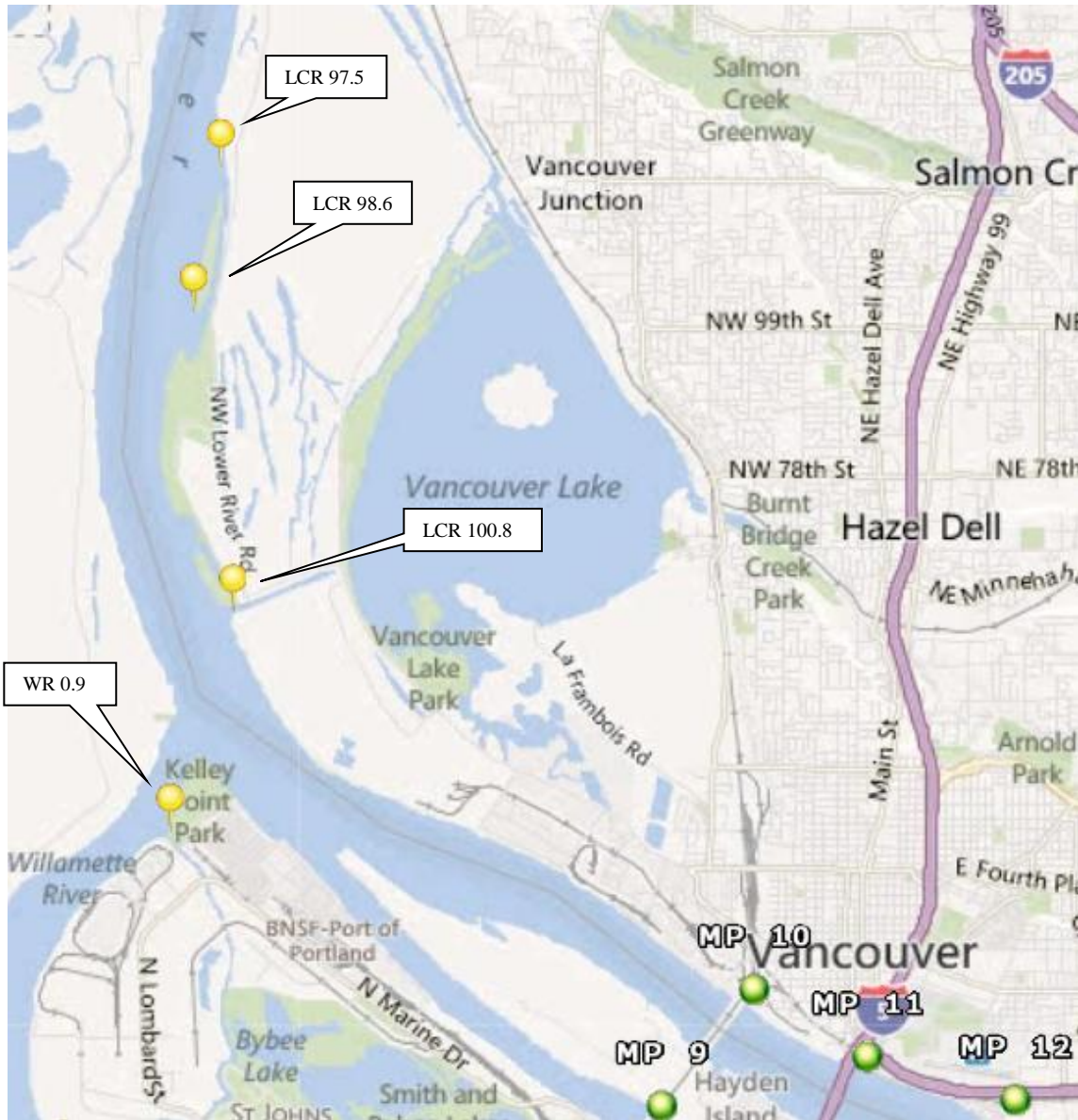
## Fallbridge Subdivision MP 40 – 12

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
LCR-111.0	Upriver from Lieser Point (WA) 45°-36.345'N 122°-35.000'W	Collection - Divert oil to collection sites.	400'	Angle (2) 200' sections upstream, at point up river of Lieser Point, and collect near ramp.
LCR-109.6	Wintler Park (WA) 45°-36.667'N 122°-36.652'W	Collection - Divert oil to collection sites.	500'	Angle boom upstream, off point just down river of Wintler Park (note -may not need full 500').
LCR-108.4	Marine Park Boat Ramp - upriver from Ryan Point (WA) 45°-36.747'N 122°-38.022'W	Collection -Collect oil in small cove.	500'	Angle boom off boat ramp into river; divert oil to collection site.

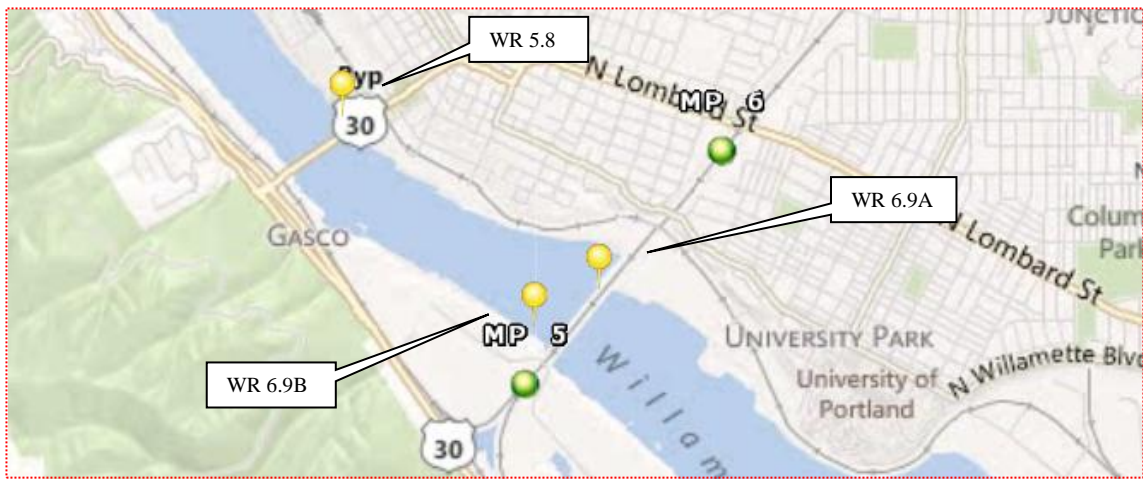
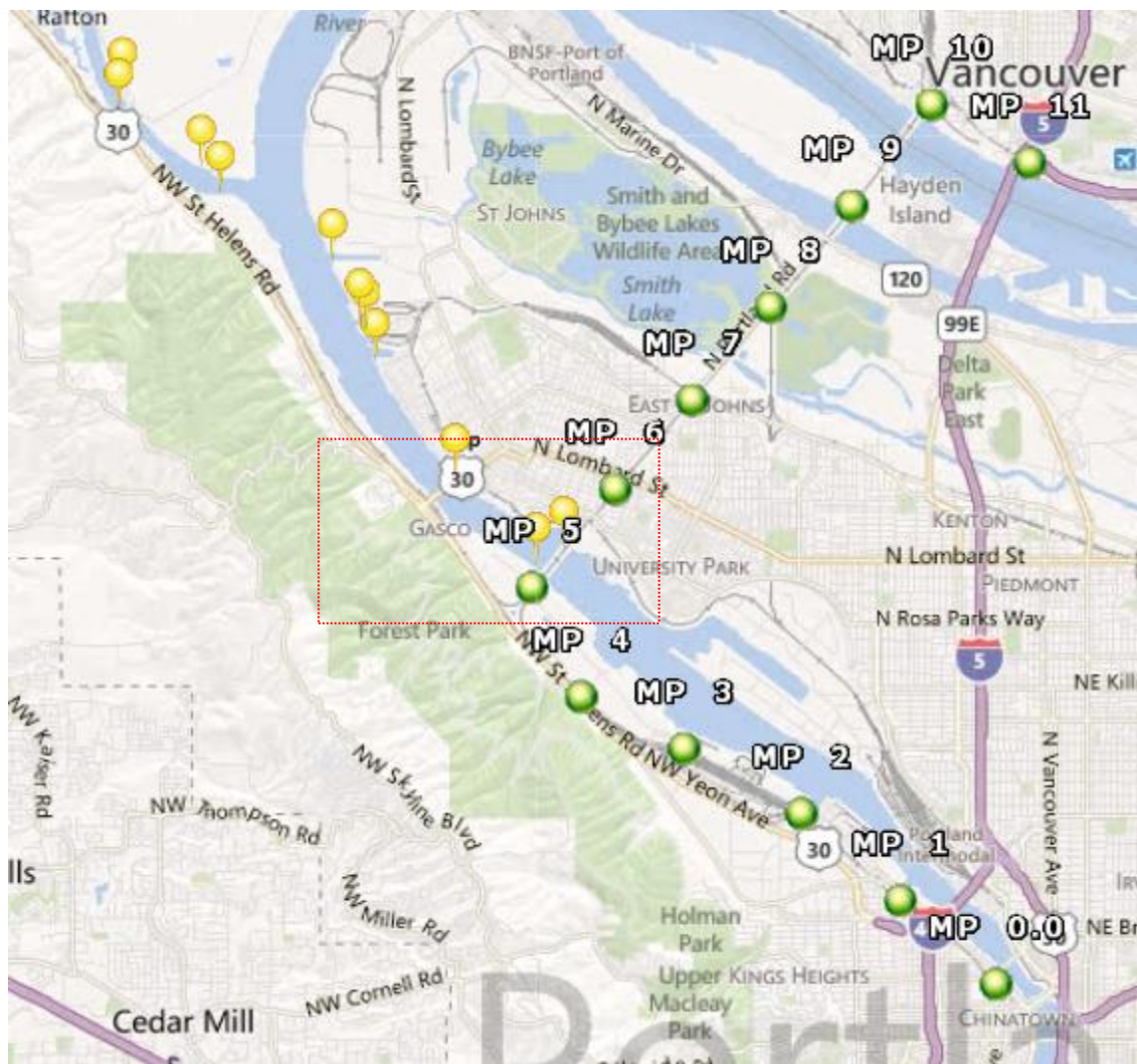
Fallbridge Subdivision MP 30 – 0







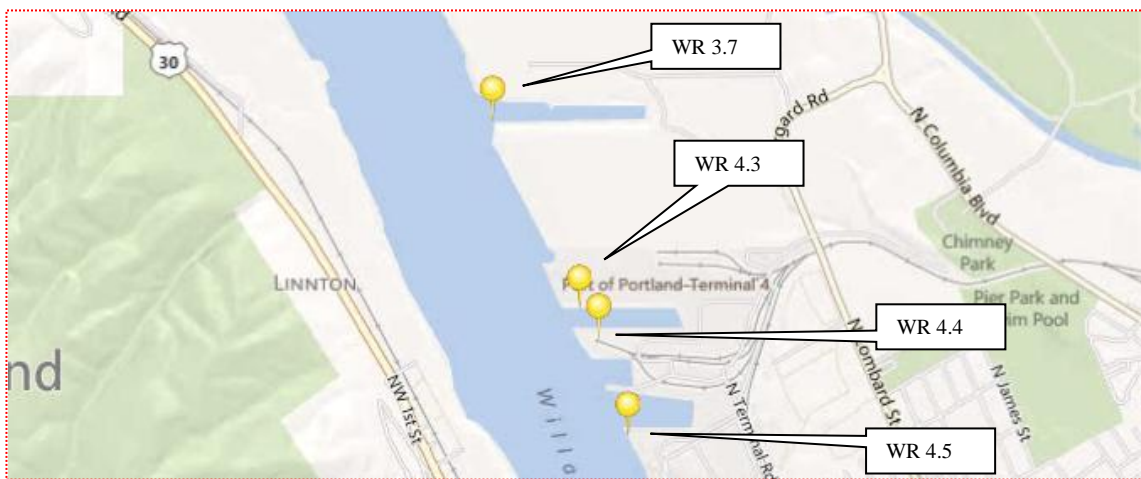
Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
LCR-100.8	Vancouver Lake/ Flushing Channel (WA) 45°-39.947'N 122°-45.528'W	Deflection/ Collection -Deflect oil into Flushing Channel for collection.	800'	Angle a 400' section SW into the river to deflect oil into a collection site in channel. Double boom channel with two 200' sections to protect Vancouver Lake. If necessary, valves can be closed at River Road to prevent oil from entering Vancouver Lake. This strategy is most effective with a south wind at slack water or when oil is moving along the north (east) shore. Sand bars at the mouth of the channel are dynamic and may require modification of the strategy.
LCR-98.6	Caterpillar Island - south end (WA) 45°- 41.660'N 122°- 45.815'W	Exclusion - Keep oil out of slough behind island.	500'	Deploy boom from the south tip of Caterpillar Island to the mainland shore.
LCR-97.5	Caterpillar Island - north end (WA) 45°-42.565'N 122°-45.555'W	Exclusion - Keep oil out of slough behind island.	500'	Deploy boom from the north tip of Caterpillar Island to the mainland shore.
WR-0.9	Columbia Slough (Smith & Bybee Lakes) 45°-38.608'N 122°-46.043'W	Deflection/ Collection -Deflect oil into collection area in slough; keep oil out of inner slough and lakes.	1000'	Use 400' section to deflect oil into the entrance to Columbia Slough -place boom on N or S side of entrance depending on spill location and tide. Double boom the inside of entrance with 300' sections to prevent oil from moving into the inner slough and lakes.



Fallbridge Subdivision MP 8 – 0 A



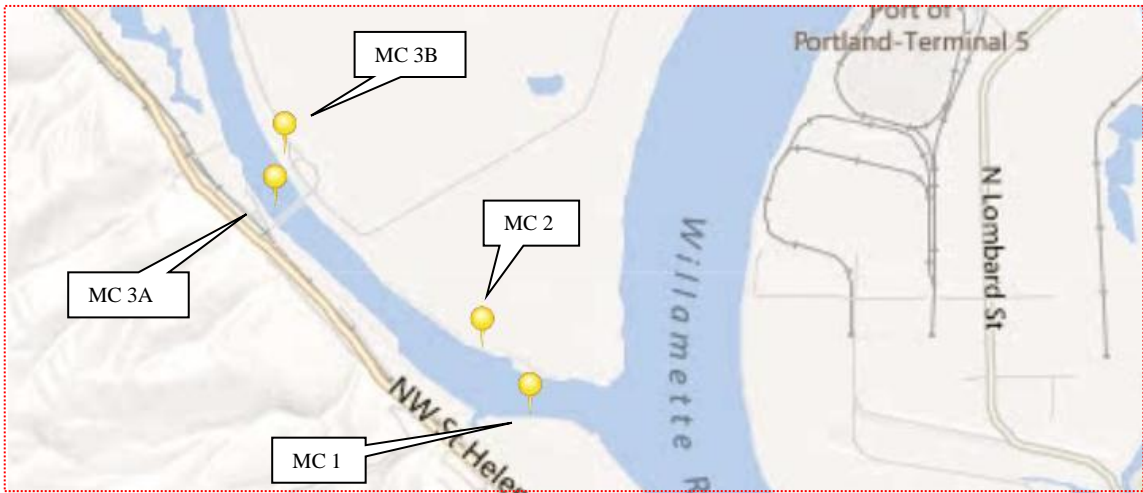
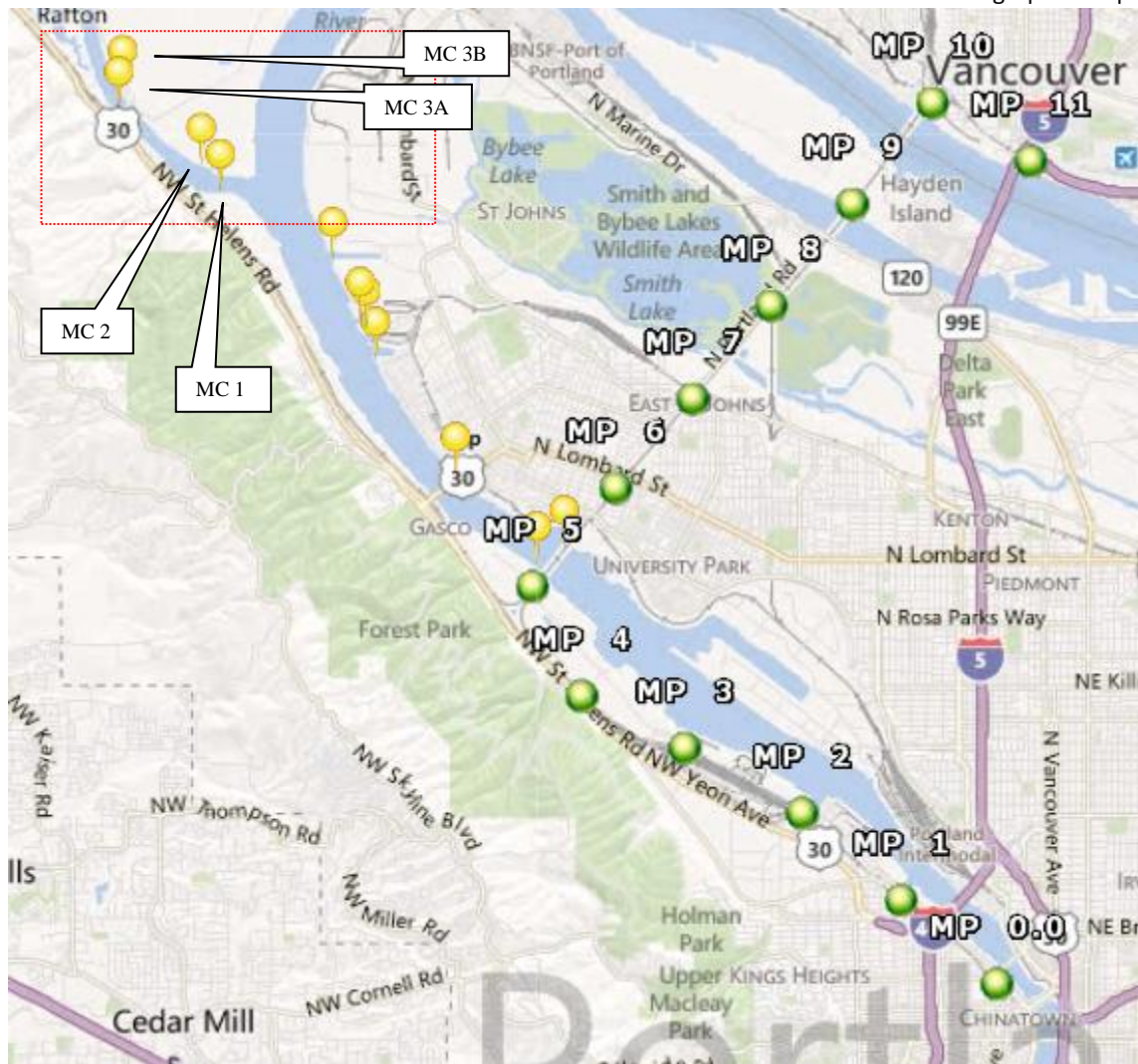
Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
WR-6.9a	BNRR Bridge 45°-34.723'N 122°-44.668'W	Collection -Prevent oil from moving downriver.	500'	Deploy boom at north end to deflect into shore; collection by portable skimmers.
WR-6.9b	BNRR Bridge 45°-34.566'N 122°-44.900'W	Collection -Prevent oil from moving downriver.	500'	Deploy boom at south end to deflect into shore; collection by portable skimmers.
WR-5.8	Willamette River - St. John's Bridge 45°-35.220'N 122°-45.725'W	Collection -Prevent oil from moving into the Columbia River.	300'	Deploy boom from Cathedral Park to the St. John's Bridge to contain/ collect oil at the park.



## Fallbridge Subdivision MP 8 – 0 B

Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
WR-4.5	Willamette River 45°-36.098'N 122°-46.562'W	Collection -Prevent oil from moving into the Columbia River.	500'	Angle boom from east shore to deflect/ collect oil moving toward the Columbia River. Will need to anchor ends in river or tend with a workboat.
WR-4.4	Willamette River 45°-36.227'N 122°-46.651'W	Collection -Prevent oil from moving into the Columbia River.	500'	Angle boom from east shore to deflect/ collect oil moving toward the Columbia River. Will need to anchor ends in river or tend with a workboat.
WR-4.3	Willamette River 45°-36.283'N 122°-46.695'W	Collection -Prevent oil from moving into the Columbia River.	500'	Angle boom from east shore to deflect/ collect oil moving toward the Columbia River. Will need to anchor ends in river or tend with a workboat.
WR-3.7	Willamette River 45°-36.720'N 122°-46.938'W	Collection -Prevent oil from moving into the Columbia River.	500'	Angle boom from east shore to deflect/ collect oil moving toward the Columbia River. Will need to anchor ends in river or tend with a workboat.

## Fallbridge Subdivision MP 8 – 0 C



Fallbridge Subdivision MP 8 – 0 C



Strategy	Location	Response Strategy	Length of Boom	Strategy Implementation
MC-1	Multnomah Channel - southern entrance, south shore 45°-37.120'N 122°-47.850'W	Deflection/Collection -Prevent oil from moving up the channel.	2,800'	Deploy 400' at south side of Multnomah Channel mouth, extending NE to pilings; deploy another parallel 400' slightly downstream. Deploy 2,000' toward NE, running from same pilings on south shore to dolphin on north shore to deflect oil toward MC-2. Note -during lower flow, can instead create collection chevron by angling 2,000' from mid-channel back to dolphin at north end of mouth.
MC-2	Multnomah Channel - southern entrance, north shore 45°-37.340'N 122°-48.300'W	Collection -Prevent oil from moving up the channel.	900'	Run 700' section from north shore to boom anchor buoy to collect oil deflected by MC-1; extend additional 200' into channel from buoy. Angle second 400' section parallel and slightly downstream for back-up.
MC-3a	Multnomah Channel - Sauvie Island bridge, west side 45°-37.705'N 122°-49.025'W	Collection -Prevent oil from moving up the channel.	400'	Angle boom from the mainland to the bridge. Collect oil with portable skimmers.
MC-3b	Multnomah Channel - Sauvie Island bridge, east side 45°-37.765'N 122°-48.925'W	Collection -Prevent oil from moving up the channel.	600'	Angle boom from Sauvie Island to the bridge. Collect oil with portable skimmers.