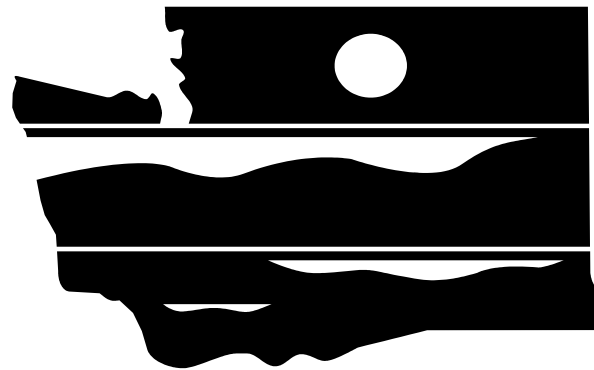


Inland Geographic Response Plans (GRPs)



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Rebecca Post

Geographic Response Plans

- What they are
- What they do for us
- How we develop them

What they are...



GRPs are oil spill protection strategies that identify and rank sensitive natural resources in a geographical area.

Example

I-5 Fishing Access

Cowlitz River



RESPONSE STRATEGY

Latitude/Longitude: N 46° 24' 49.7" / W 122° 53' 28.8"

Location: Lewis County, WA

Owner: Dept of Fish and Wildlife

Staging Area: On site parking area approximately 132' x 170'.

Response Objective: Containment and Recovery

Response Tactic-Normal Conditions: Deploy segments of containment boom across Cowlitz River using shoreline and bottom anchoring technique to divert product to the left descending bank, where skimming operations can be performed. Deploy sorbent boom on downstream side of containment boom to seal collection area. Deploy containment boom backed with sorbent boom downstream of collection point as backup boom. Consider excavating a sump to aid in recovery operations.

Watercourse Description: River, 285 ft wide, mud banks and bottom, current 2-5 mph.

Description of Worksite: Rural area, multi-lane gravel road access, light traffic.

Critical Response Information: Air monitoring and PPE per Site Safety Plan. Response tactics are not for use with gasoline spills.

This GRP has been developed based on express assumptions provided by and under the direction and supervision of the Washington Department of Ecology (WDOE) and may not be appropriate for all conditions. There may be situations different from those assumed by the WDOE and on which this GRP is based. Responders must carefully consider actual conditions and use common sense and caution when determining how to most effectively respond to a spill and any resulting circumstances. Actual response actions that vary from this GRP are at the sole risk and responsibility of the responders. TRP does not assume the risk and responsibility for the implementation and actual use of the GRP, or for the assumptions given to TRP to prepare this GRP.

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LEGEND Origin ● Destination ●

DRIVING DIRECTIONS

From I-5 (exit 57) to Barnes Dr.
East on Barnes Dr for 0.1 miles to Jackson Hwy S
Northeast on Jackson Hwy S for 2.0 miles to Mandy Rd
West on Mandy Rd for 0.6 miles to site.

TRP TECHNICAL RESPONSE PLANNING CORPORATION March 2003
www.trpcorp.com | (201) 955-9000

RECOMMENDED EQUIPMENT	
QUANTITY	DESCRIPTION
1200 ft	Containment Boom
200 ft	Sorbent Boom
1	Vac Truck(s)
1	Frac Tank(s)
1	Work Boat(s)
1	Skimmer(s)
2500 ft	3/8" Polypropylene Line
16	Stake(s)
4	Sledge Hammer(s)
12 bales	Sorbent Pad(s)
2 case	85 Gallon Drum Liner(s)
2 rolls	Poly Sheeting
1	Cell Phone(s)
2	Poly Lined Roll-Off Boxes
24	20 lb Anchor(s)

RECOMMENDED EQUIPMENT	
QUANTITY	DESCRIPTION
2	Portable Radio(s)
1	Light Tower(s)
1	Port-o-Let(s)

RECOMMENDED PERSONNEL	
NUMBER	DESCRIPTION
1	Supervisor(s)
1	Vac Truck Operator(s)
1	Boat Operator(s)
6	Laborer(s)

I-5 Fishing Access

What they give us...

- Direction in the period of “crisis”
- Identification of natural and cultural resources
- Information for response planning

How we develop GRPs...

- Examine maps for potential spill sources (pipelines, railways, major highways)
- Examine maps for access
- Hold local meetings with stakeholders
- Involve local spill responders
- Conduct field work
- Test the plans
- Revise the plans

Potential Spill Sources

- Pipelines
- Railways
- Facilities
- Major Highways

- You define your potential spill hazards

Stakeholders

- Leave no one behind!
- Identified Potential Responsible Parties
- First Responders
- Natural Resource Trustee Agencies
- Spill Responders
- Local Interest Groups (fishermen, river keepers etc.)

Field Work

- Drive to access sites
- Discuss response strategies
- Document staging areas
- Global Positioning System points
- Site photos
- Aerial photos

Public Access to GRPs

- Develop your format considering:
 - web access
 - ease of use
 - printability in field
 - hard copy document size
 - updates

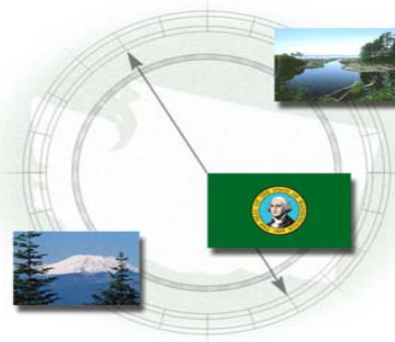
Washington's Inland GRPs

Washington Department of Ecology - GRP

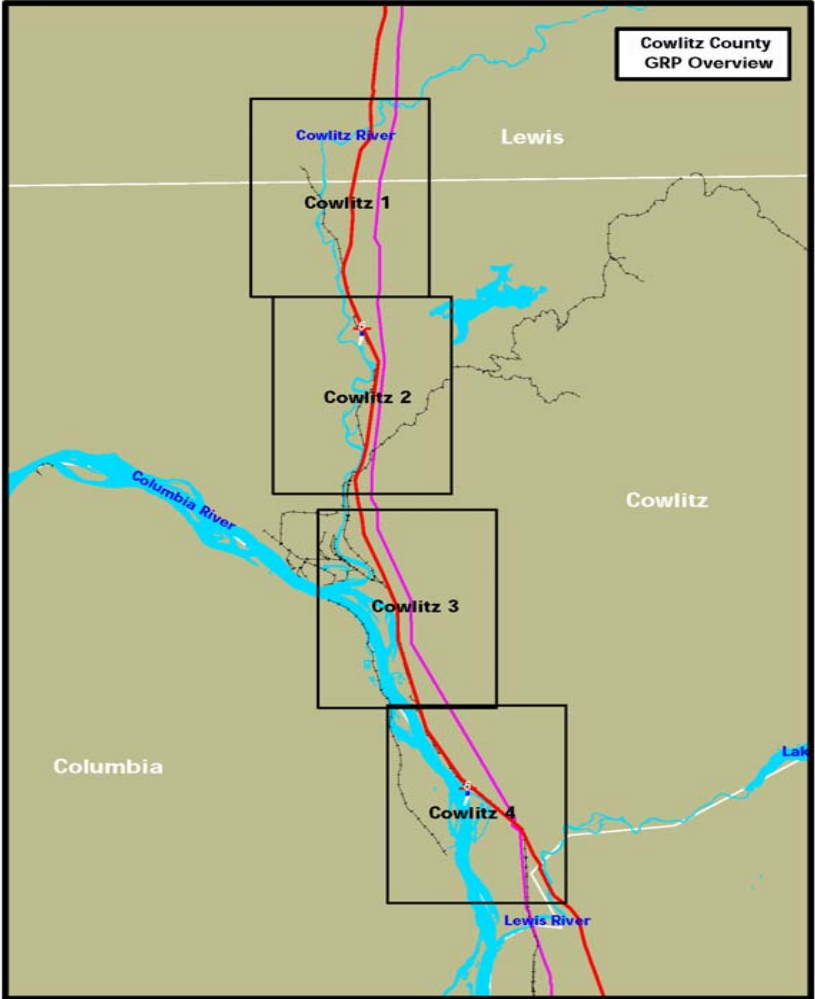
Washington Department of Ecology

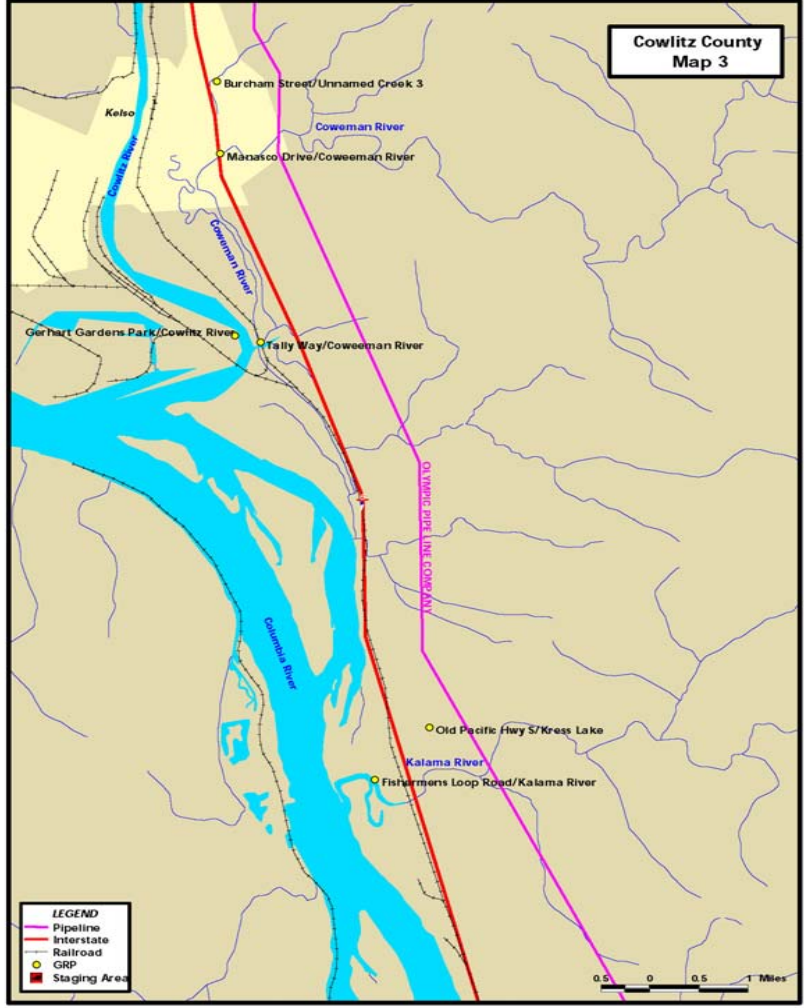
Home Introduction Useful Links

Geographic Response Plan System



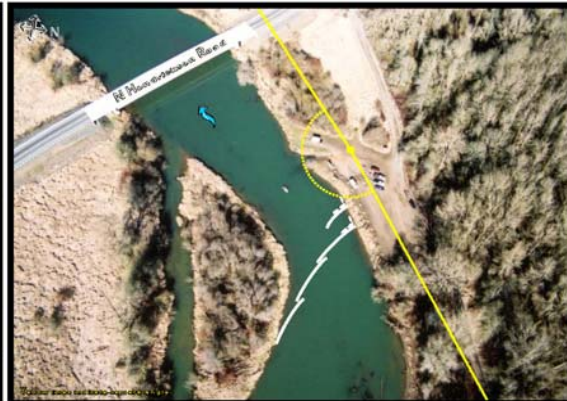
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Fishermens Loop Road

Kalama River



RESPONSE STRATEGY

Latitude/Longitude: N 46° 02' 19.2" / W 122° 51' 52.5"

Location: Cowlitz County, WA

Owner: Dept of Fish and Wildlife

Staging Area: Parking area onsite approximately 150' x 333'

Response Objective: Containment and Recovery

Response Tactic-Normal Conditions: Deploy segments of containment boom across Kalama River using shoreline and bottom anchoring techniques to divert product to the right descending bank, where skimming operations can be performed. Deploy sorbent boom on downstream side of containment boom to seal collection area. Deploy containment boom backed with sorbent boom downstream of collection point as backup boom.

Watercourse Description: River, 165 ft wide, mud banks and bottom, current 1-3 mph.

Description of Worksite: Rural and industrial area, two-lane paved road access, moderate traffic.

Critical Response Information: River level may become to high to use the boat ramp. Air monitoring and PPE per Site Safety Plan. Response tactics are *not* for use with gasoline spills.

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Fishermens Loop Road

LEGEND Origin ● Destination ●

DRIVING DIRECTIONS

From I-5 (exit 52) to W Kalama River Rd:
 Northwest on Kalama River Rd for 0.9 miles to N Henderson Rd
 West on N Henderson Rd for .8 miles to Fishermens Loop Rd
 Southeast on Fishermens Loop Rd for 0.8 miles to site.



Washington\Worksites\Cowlitz County\Kalama River\Fishermens Loop Road\FishermensLoopRd.cdr

RECOMMENDED EQUIPMENT

QUANTITY	DESCRIPTION
800 ft	Containment Boom
200 ft	Sorbent Boom
1	Vac Truck(s)
1	Frac Tank(s)
1	Work Boat(s)
1	Skimmer(s)
1500 ft	3/8" Polypropylene Line
16	Stake(s)
4	Sledge Hammer(s)
12 bales	Sorbent Pad(s)
2 case	55 Gallon Drum Liner(s)
2 rolls	Poly Sheeting
1	Cell Phone(s)
2	Poly Lined Roll-Off Boxes
16	20 lb Anchor(s)

RECOMMENDED EQUIPMENT

QUANTITY	DESCRIPTION
2	Portable Radio(s)
1	Light Tower(s)
1	Port-o-Let(s)

RECOMMENDED PERSONNEL

NUMBER	DESCRIPTION
1	Supervisor(s)
1	Vac Truck Operator(s)
1	Boat Operator(s)
6	Laborer(s)

Test the Plan



Next Challenges



Spokane River

Effects of rapids and waterfalls on

- Volatilization
- Dispersion
- Re-coalescence
- Effectiveness of conventional boom

Washington State Inland Geographic Response Plans

- http://www.ecy.wa.gov/programs/spills/preparedness/GRP/GRP_inland.htm

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