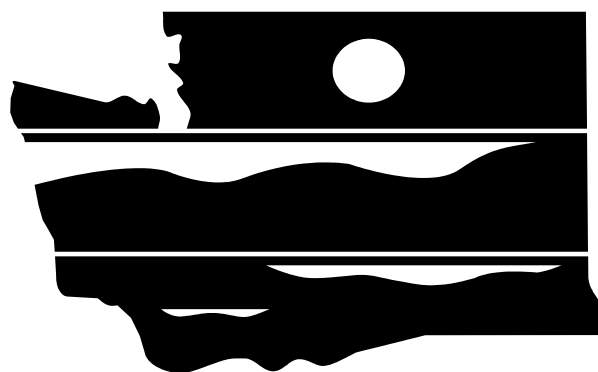


US EPA ARCHIVE DOCUMENT

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																																																			
Photographs were taken during high flow conditions.																																																					
		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 <u>not</u> for use with gasoline spills. This ORP 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 ORP 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 ORP 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 ORP, or for the assumptions given to TRP to prepare this ORP.																																																			
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. TECHNICAL RESPONSE PLANNING CORPORATION March 2003 www.trpcorp.com (201) 955-9000		RECOMMENDED EQUIPMENT <table border="1"> <thead> <tr> <th>QUANTITY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1200 ft</td> <td>Containment Boom</td> </tr> <tr> <td>200 ft</td> <td>Sorbent Boom</td> </tr> <tr> <td>1</td> <td>Vac Truck(s)</td> </tr> <tr> <td>1</td> <td>Frac Tank(s)</td> </tr> <tr> <td>1</td> <td>Work Boat(s)</td> </tr> <tr> <td>1</td> <td>Skimmer(s)</td> </tr> <tr> <td>2500 ft</td> <td>3/8" Polypropylene Line</td> </tr> <tr> <td>16</td> <td>Stake(s)</td> </tr> <tr> <td>4</td> <td>Sledge Hammer(s)</td> </tr> <tr> <td>12 bales</td> <td>Sorbent Pad(s)</td> </tr> <tr> <td>2 case</td> <td>85 Gallon Drum Liner(s)</td> </tr> <tr> <td>2 rolls</td> <td>Poly Sheeting</td> </tr> <tr> <td>1</td> <td>Cell Phone(s)</td> </tr> <tr> <td>2</td> <td>Poly Lined Roll-Off Boxes</td> </tr> <tr> <td>24</td> <td>20 lb Anchor(s)</td> </tr> </tbody> </table>	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 <table border="1"> <thead> <tr> <th>QUANTITY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Portable Radio(s)</td> </tr> <tr> <td>1</td> <td>Light Tower(s)</td> </tr> <tr> <td>1</td> <td>Port-o-Let(s)</td> </tr> </tbody> </table> RECOMMENDED PERSONNEL <table border="1"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Supervisor(s)</td> </tr> <tr> <td>1</td> <td>Vac Truck Operator(s)</td> </tr> <tr> <td>1</td> <td>Boat Operator(s)</td> </tr> <tr> <td>6</td> <td>Laborer(s)</td> </tr> </tbody> </table>	QUANTITY	DESCRIPTION	2	Portable Radio(s)	1	Light Tower(s)	1	Port-o-Let(s)	NUMBER	DESCRIPTION	1	Supervisor(s)	1	Vac Truck Operator(s)	1	Boat Operator(s)	6	Laborer(s)
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© Copyright Technical Response Planning Corp., 2003 I-5 Fishing Access																																																					

Washington\Worksites\Cowlitz County\Cowlitz River\I-5 Fishing Access\I-5FishingAccess.cdr

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 - ORP

Washington Department of Ecology

Home Introduction Useful Links

Covitz County

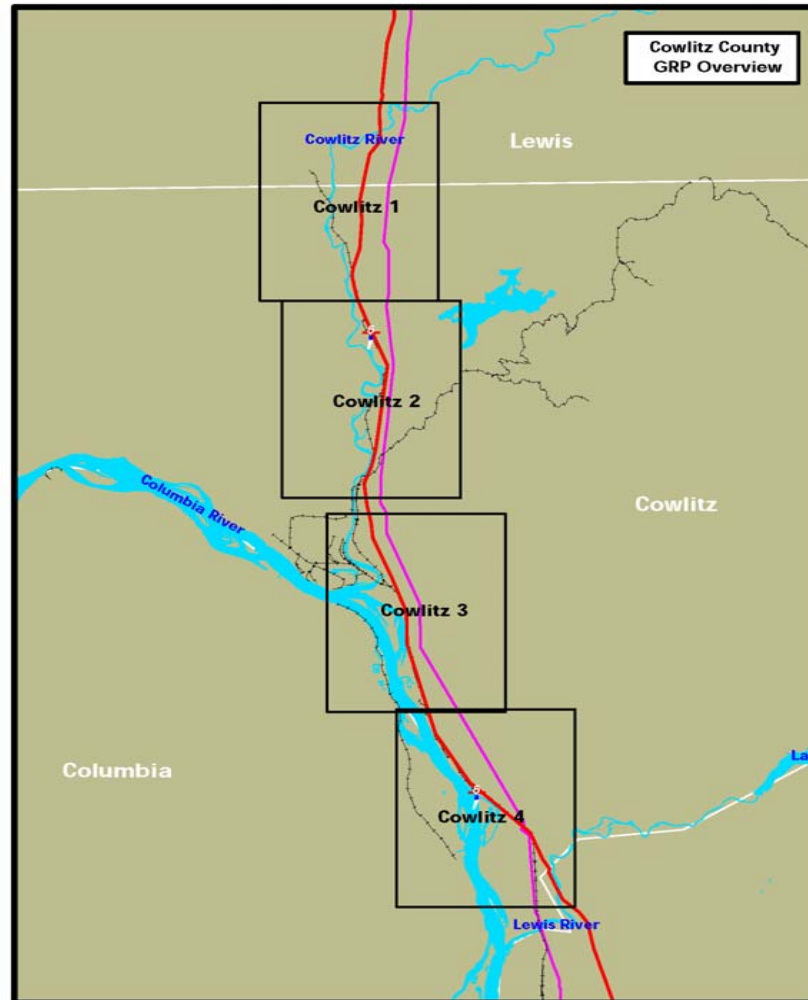
Geographic Response Plan System

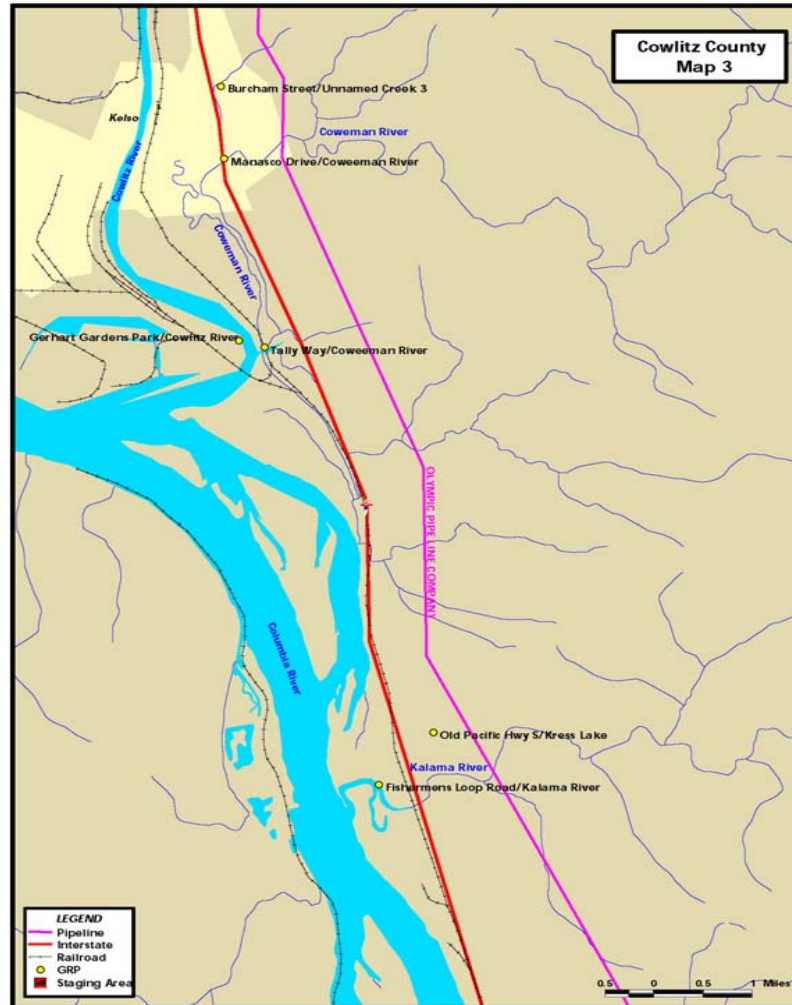
Developed by:

TECHNICAL RESPONSE PLANNING CORPORATION

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http://www.ecy.wa.gov/geospatial/orp/open-data/orp/covitz_county/index.html



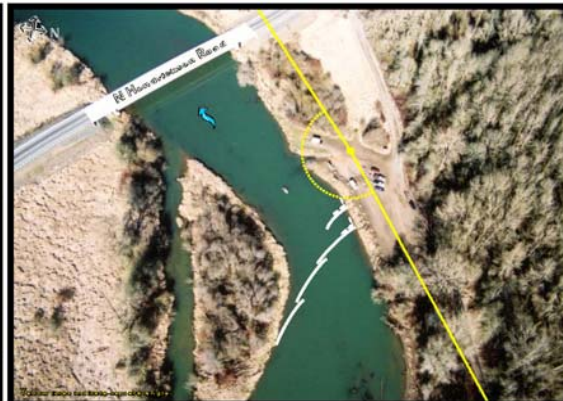


Fishermens Loop Road

Kalama River



Photographs were taken during high flow conditions.



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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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.



March 2003

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Washington\Worksites\Cowlitz County\Kalama River\Fishermens Loop Rd\Fishermens Loop Rd.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-a-Let(s)

RECOMMENDED PERSONNEL

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

Fishermens Loop Road

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

Washington State Department of Ecology
Spill Prevention, Preparedness and Response Program

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