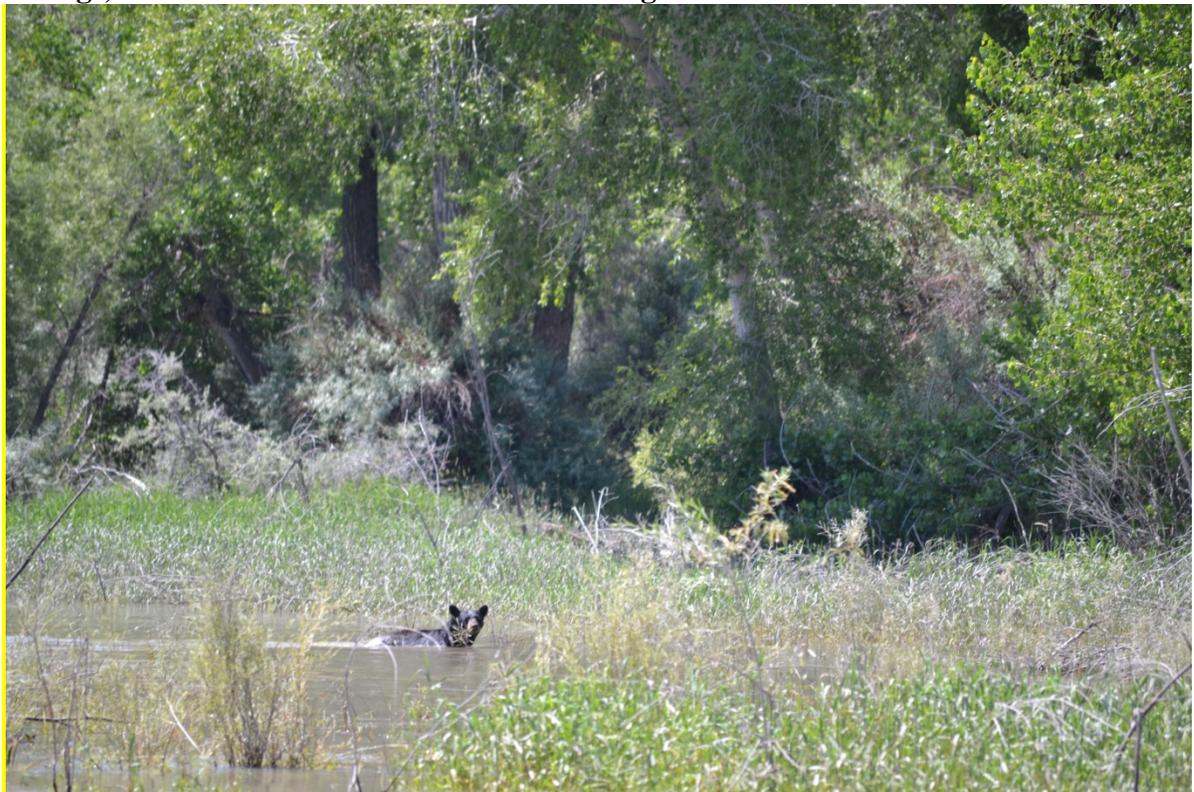


U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Silvertip Pipeline Spill



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, Region VIII

Subject: SITREP # 05 July 16, 2011
Silvertip Pipeline Oil Spill Response
Billings, Montana Latitude: 45° 39' 25.57" Longitude: 108° 44' 54.35"



Division A Bear Sighting

Reporting Period: 0700 hours 07/14/11 to 0700 hours 07/16/11

USEPA Concurrence	Finance Section	Logistics Section	Planning Section	Operations Section
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1.0 Introduction

At approximately 11:00 PM on Friday, July 1 a break occurred in a 12-inch pipeline owned by ExxonMobil that resulted in a spill of crude oil into the Yellowstone River approximately 20 miles upstream of Billings, Montana. According to the company's estimates, 1,000 barrels of oil entered the river, which is in flood stage, before the pipeline was cut off. EPA's primary concern is protecting people's health and the environment. EPA will remain on-site to ensure cleanup and restoration efforts do just that. EPA continues to hold ExxonMobil, the responsible party, accountable for assessment and cleanup.

1.1 Background Information

D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/2/11	Start Date:	7/2/11
RCRIS ID:			
ERNS No.:		State Notification:	
FPN#: E11809		Reimbursable Account	

1.2 Preliminary Site Inspection and Response Activities

An EPA On-Scene Coordinator (OSC) has been directing and overseeing cleanup activities since arriving at the site. EPA and U.S. Fish and Wildlife Service personnel conducted aerial assessments and reported seeing bank deposits and small pooling of oil in backwaters and slow water at intermittent points along both the north and south banks of the Yellowstone River. Personnel are walking the shores and are deploying absorbent booms along the river banks to absorb oil that collected in slow water along the shoreline. EPA is conducting air monitoring and has taken water samples to determine what impacts the spill may have on air or water quality. Shoreline assessment is ongoing to determine effective strategies for recovering the oil. Sorbent boom deployment is ongoing and where possible other oil recovery and containment approaches are being implemented. Flood conditions on the river have hampered oil recovery efforts and prevented a more thorough assessment of the impacts at this time.

1.3 Incident Objective

The following incident objectives and command emphasis are taken from the IAP for the Operational Period 7 – July 13, 2011, at 0730 to July 15, 2011, at 0730.

General Response Objectives

1. Ensure the safety of the responders.
2. Maintain the source of the spill.
3. Characterize and assess the impact to maximize the protection of public health and welfare.
4. Define impacted areas.
5. Contain and recover spilled material.
6. Develop and execute a remediation work plan for impacted areas.
7. Manage a coordinated response effort.
8. Execute Wildlife Plan to to recover and rehabilitate injured wildlife.
9. Keep stakeholders and public informed of response activities (Residential, Commercial, Agricultural, and Tribal)

2.0 Background

On July 6, 2011 EPA issued an administrative order to ExxonMobile instructing them to provide information on the circumstance of the spill, conduct appropriate recovery and remediation actions, and perform ongoing environmental sampling. The order also requires ExxonMobile to provide a workplan which is currently being reviewed by the state of Montana, EPA, and other agency partners.

3.0 Current Operations

The Source Control group initiated vacuuming the remaining oil out of pipeline on north side of the rupture.

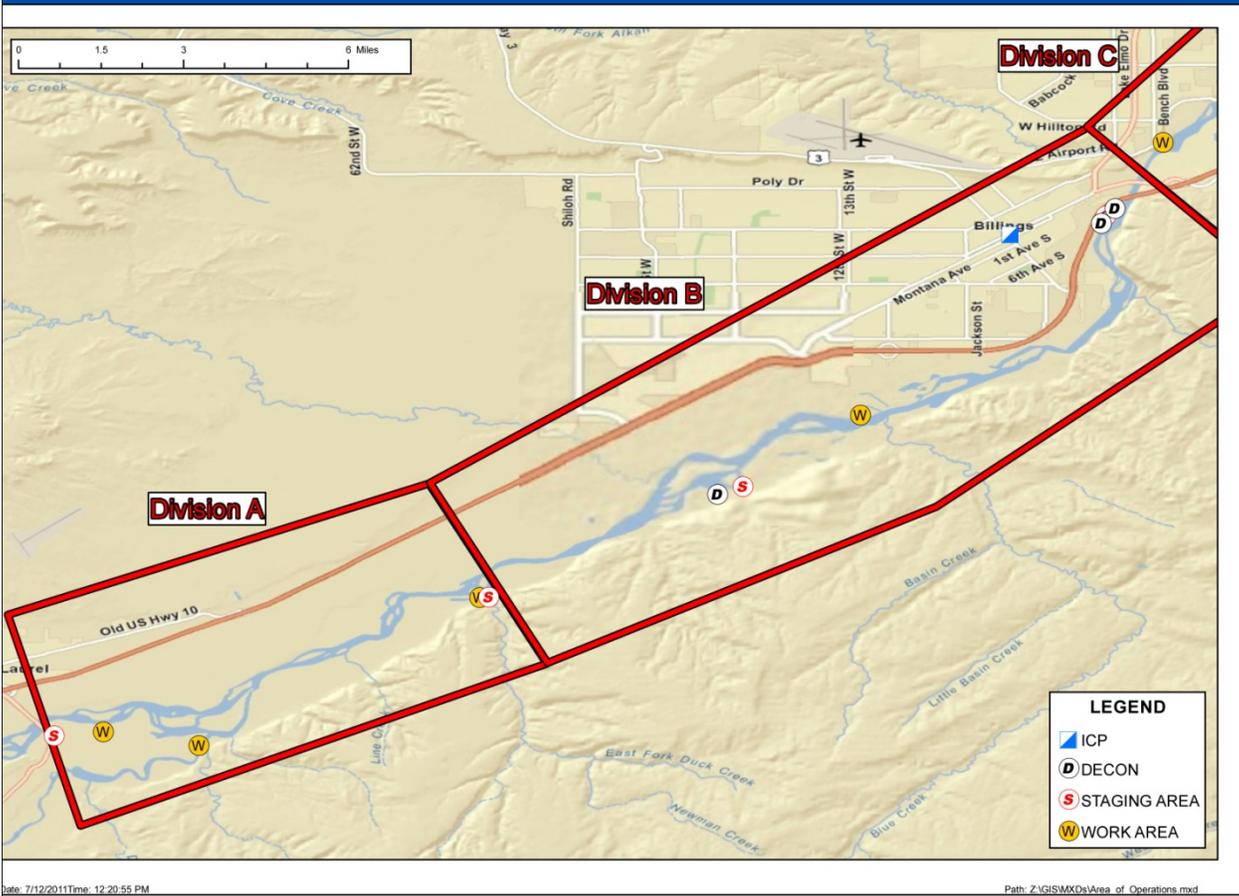
There are 242 clean-up personnel working in Division A and 115 clean-up crew in division B.

Division A teams are staged at Thiel Road, Clarks Fork, and Duck Creek Staging areas and continue to apply sorbent boom along the Thiel road ditch and in shallow backwaters behind islands. Air and Jon Boats are being used to retrieve oiled debris and to set sorbent boom and pads.

Division B personnel are staged at Blue Creek/Moon Park and Duck Creek, Blue Creek staging areas. Division B crews at Duck Creek staging are setting up to handle several jet boats for island and shore clean-up. Division B group stood down today for R&R.

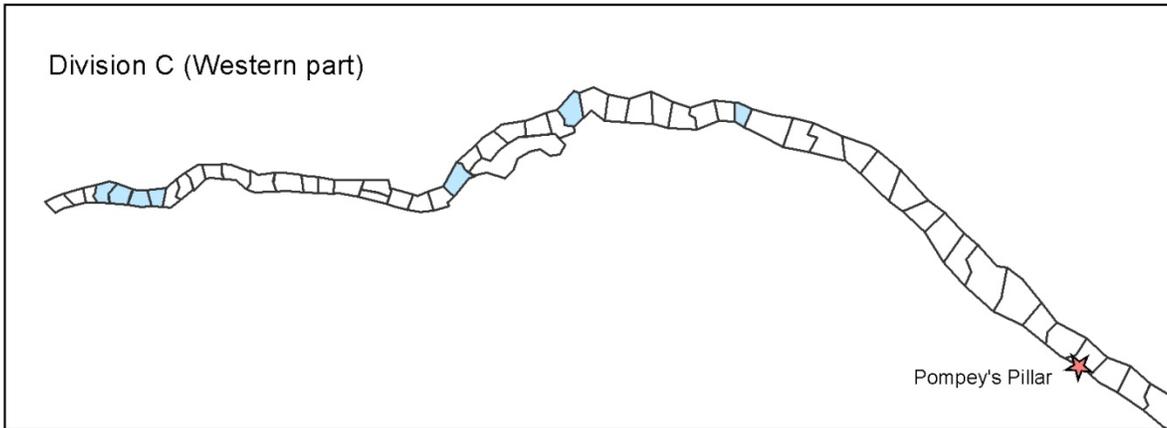
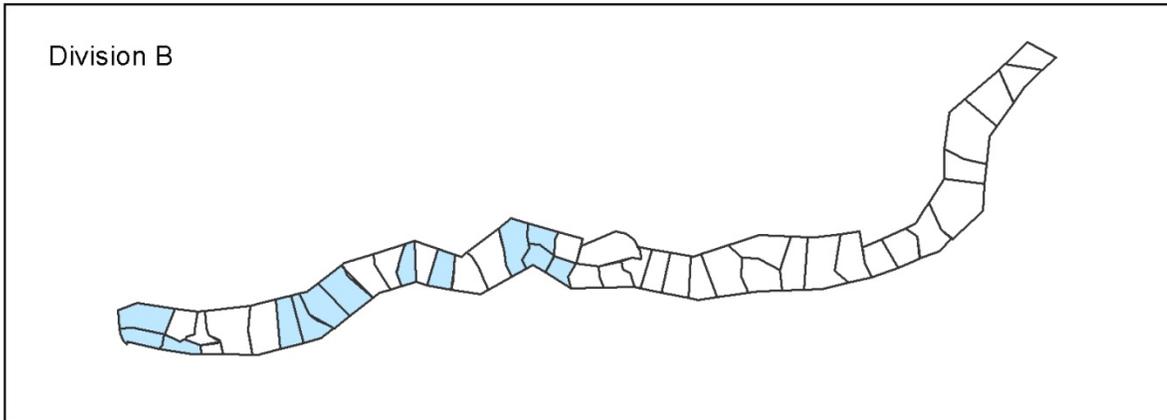
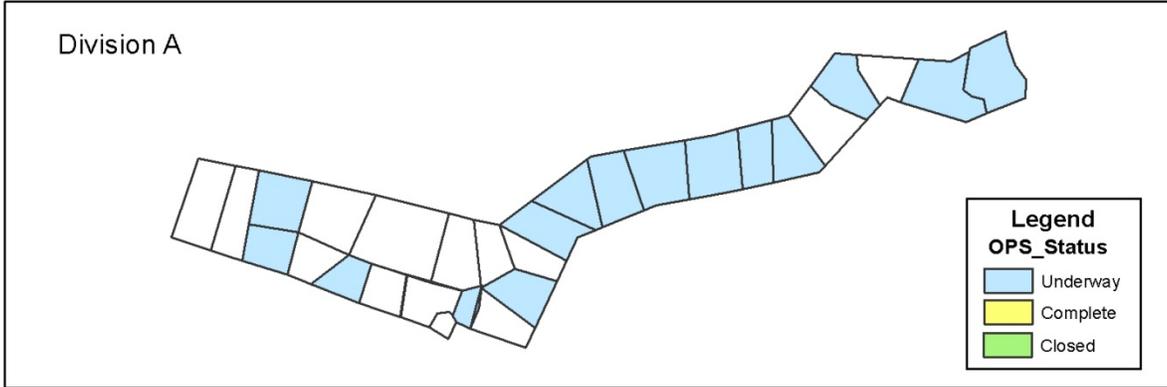
Jet-boats for addressing island oily areas are still limited with deployment and maintenance of sorbent booms on several oily water areas along islands. River water levels are expected to continue to drop and will likely result in safety approval for use of jet-boats for transporting crews to islands to implement SRTs.

Silvertip Pipeline Incident Work Areas Overview



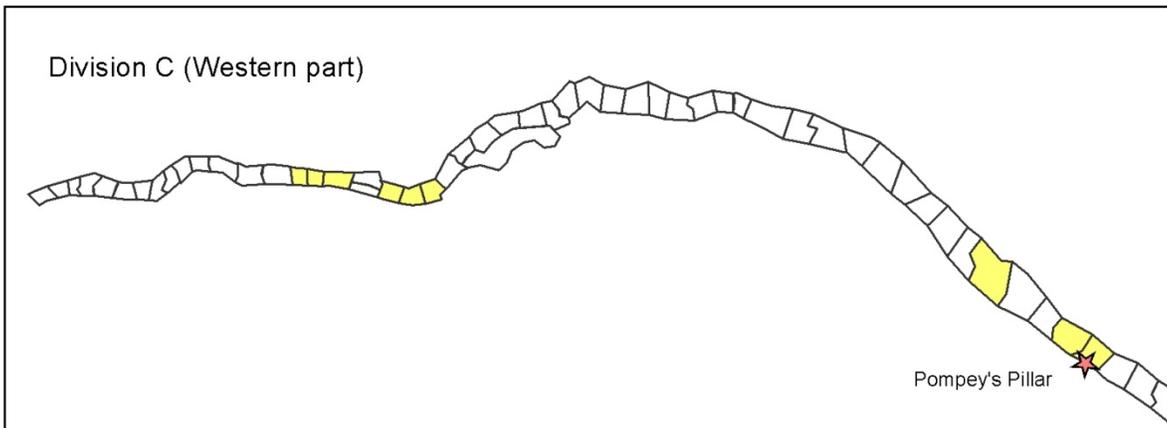
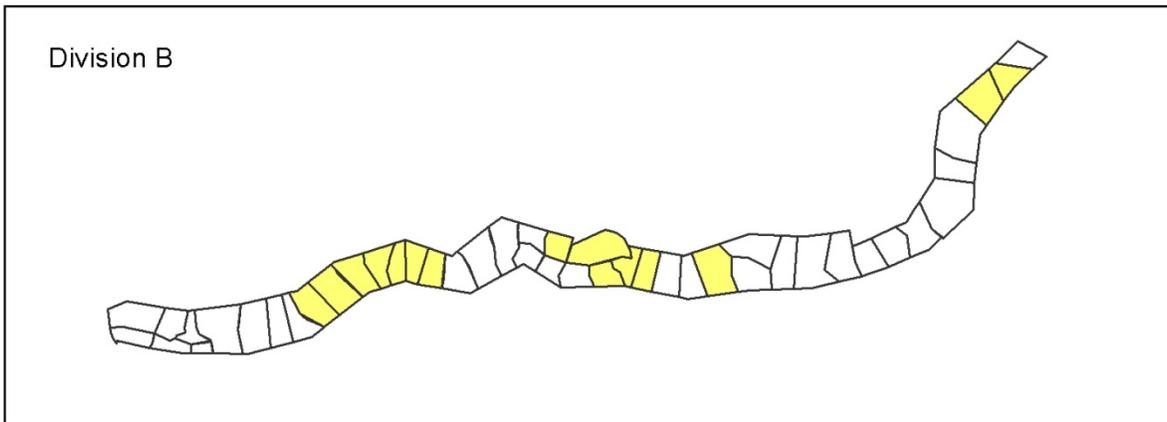
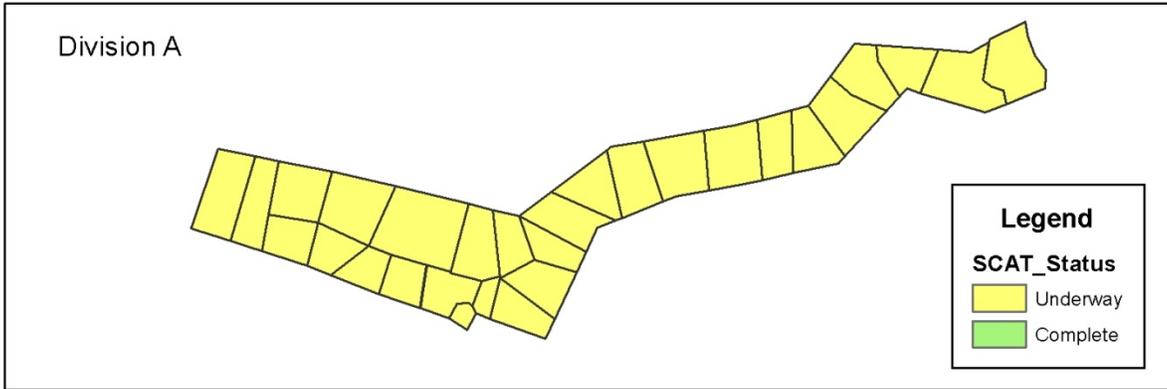
Silvertip Incident OPS Work Status 7/15/2011

*Data is current as of 7/14/2011



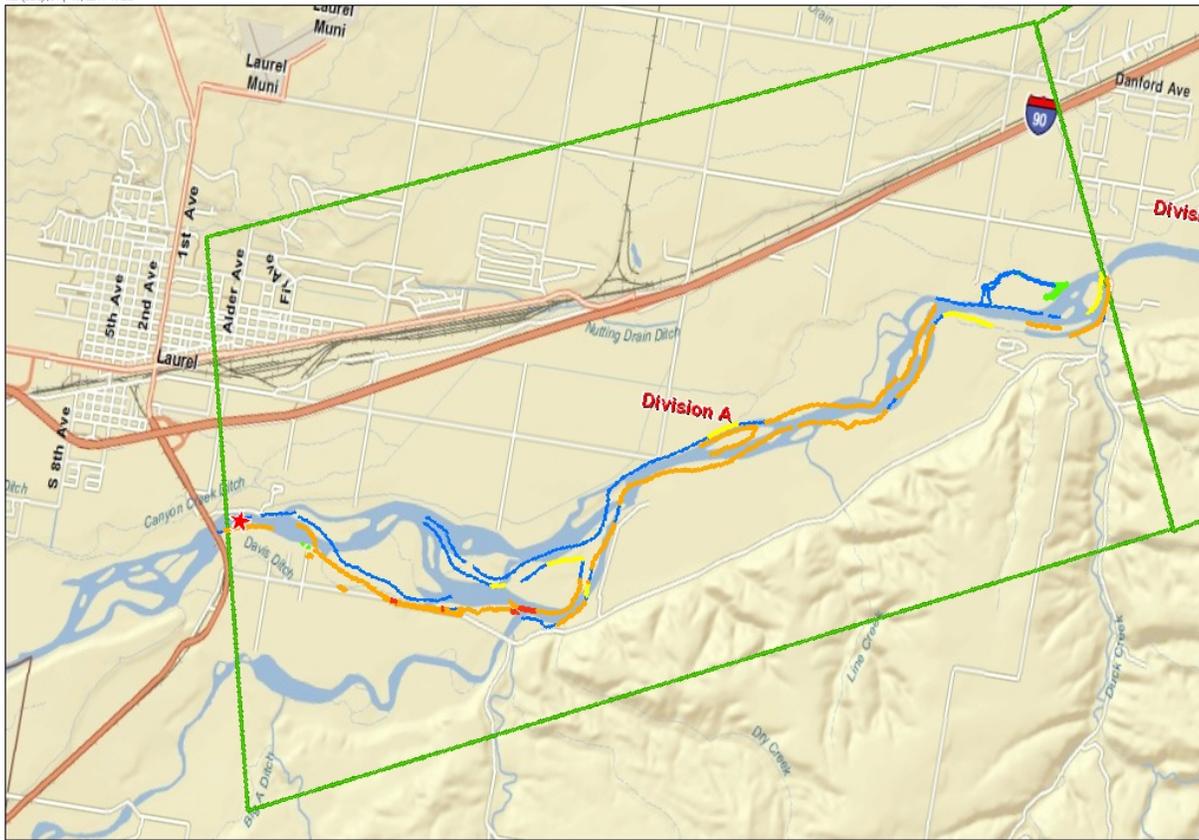
Silvertip Incident SCAT Work Status 7/15/2011

*Data Current as of 7/14/2011



7-15 SCAT Locations Division A

MC (656), July 15, 2011 15:00



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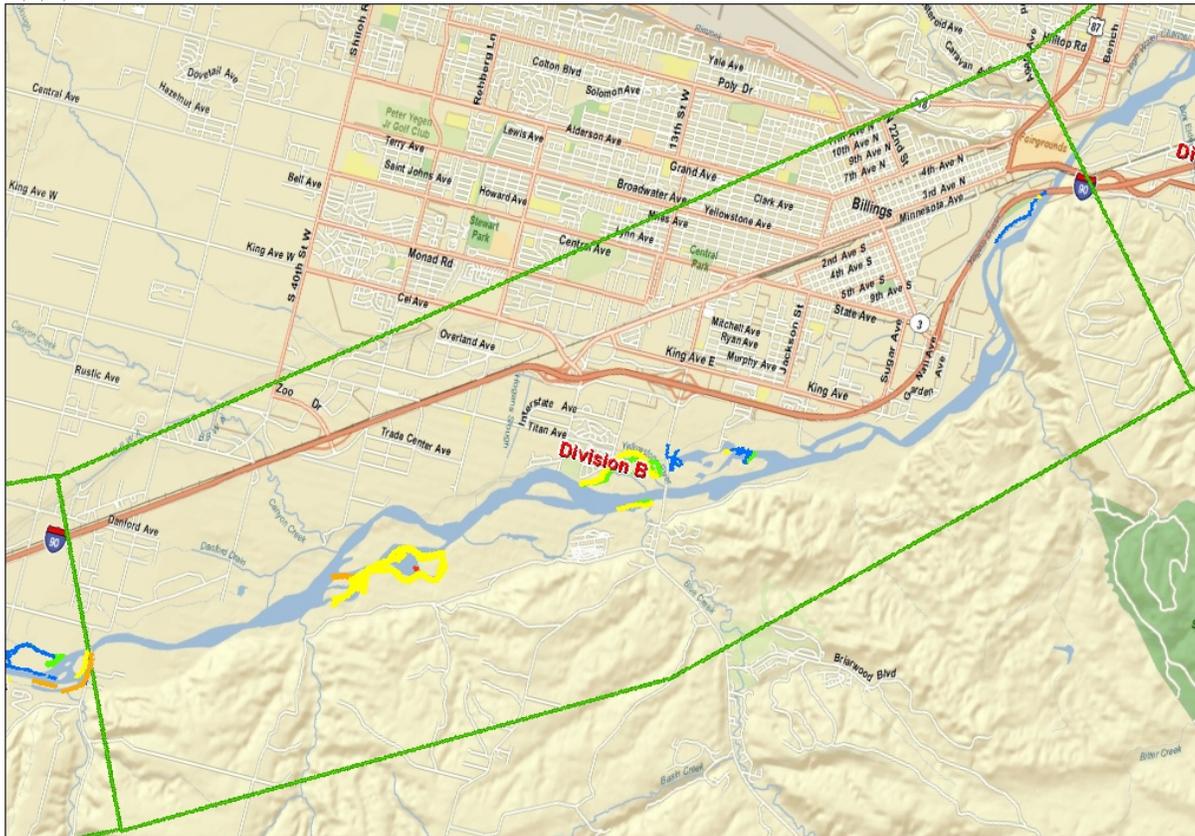
SCAT Observations Division A - July 15, 2011

- ★ Spill Site
- Moderate
- Very Light
- Heavy
- Light
- NOO



7-15 SCAT Locations Division B

MC (666) July 15, 2011 15:00



SCAT Observations Division B - July 15, 2011

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- ★ Spill Site
- Heavy
- Moderate
- Light
- Very Light
- NOO



Work Area/Work Site Summary (7-14 and 7-15 data)

Work Area by Division	Identified (7-14/7-15)	No Action Required (7-14/7-15)	Underway (7-14/7-15)	Awaiting Approval (7-14/7-15)
A	25/NC	1/NC	15/NC	0/NC
B	15/NC	0/NC	8/NC	0/NC
C	7/NC	0/NC	0/NC	0/NC
D	0/NC	0/NC	0/NC	0/NC
Total	47¹	1	23²	0

¹Work Activities restricted at 23 sites due to river levels

²6 Sites awaiting SCAT completion confirmation

SCAT Monitoring Data (7-14 and 7-15 data)

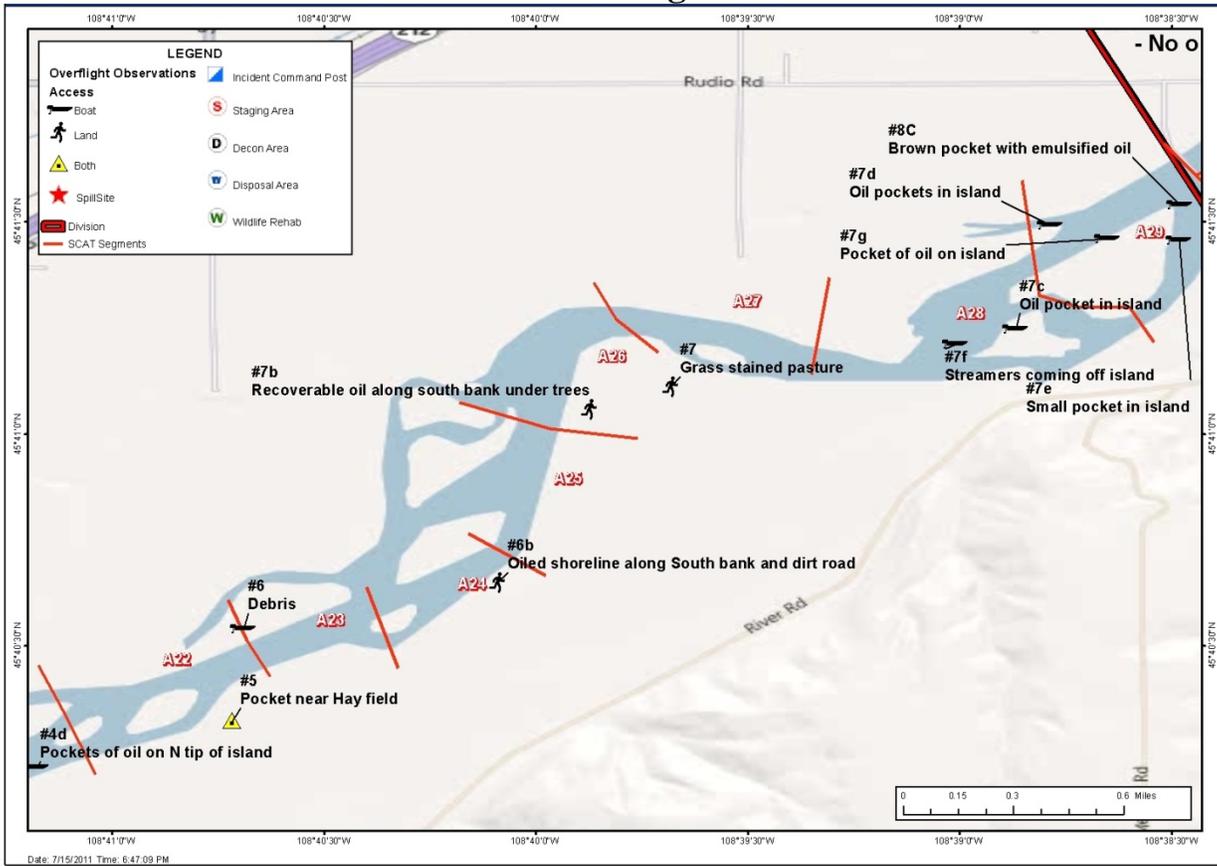
Work Area by Division	Number of Segments	Number of Surveys in Progress ²	Oil Impact (Miles) ¹			
			Very Light (7-14/7-15)	Light (7-14/7-15)	Moderate (7-14/7-15)	Heavy (7-14/7-15)
A	29	28	0.71/1.13	1.61/2.58	9.12/9.33	0.31/0.56
B	45	8	1.64/NC ³	4.98/NC	0.2/NC	0.06/NC
C	88	9	1.91/NC	0	0.19/NC	0
D	47	0	0	0	0	0
Totals	209	45	4.26/4/68	6.59/7.56	9.51/9.72	0.37/0.62

¹Represents miles of impacted areas observed during completed SCATS

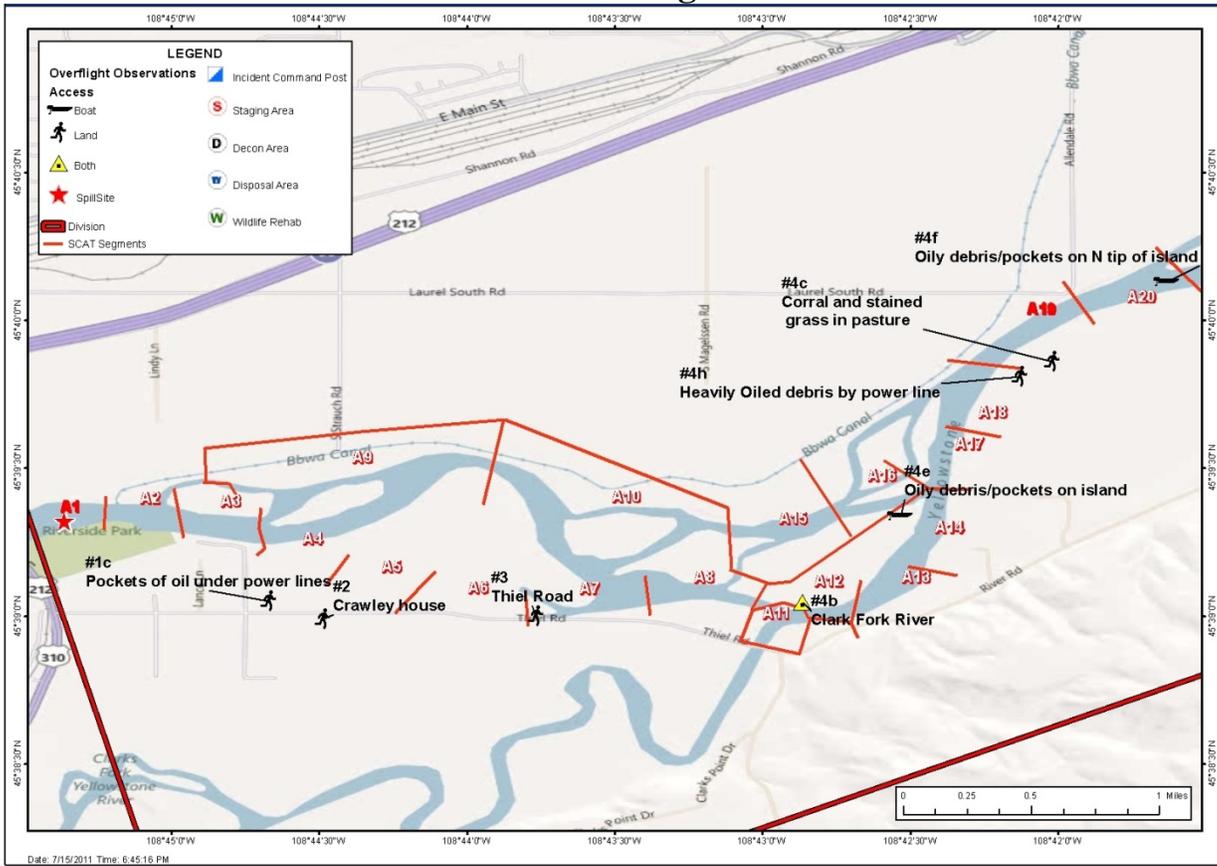
²Segments evaluated include only partial shorelines in each segment pending boat access due to unsafe river conditions

³No Change

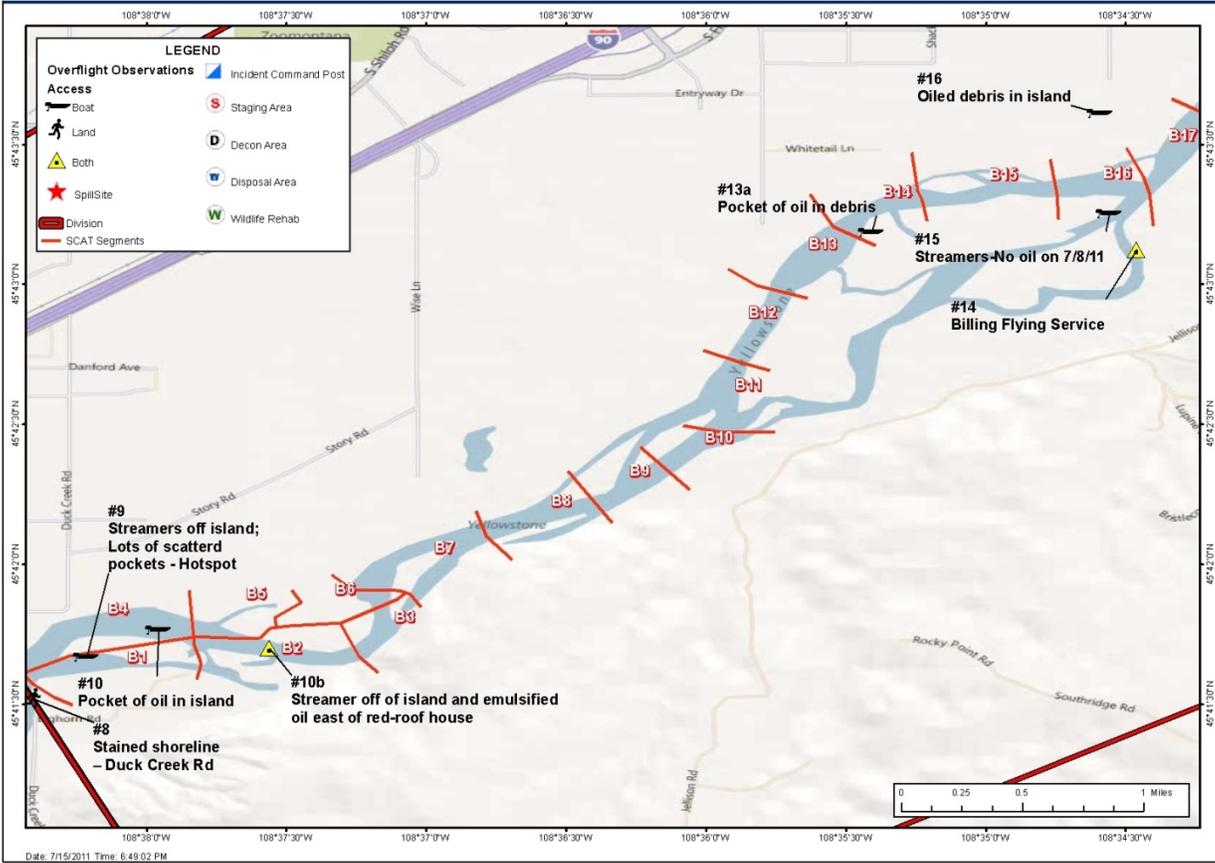
Division A East Assessment and Monitoring Areas 7-15



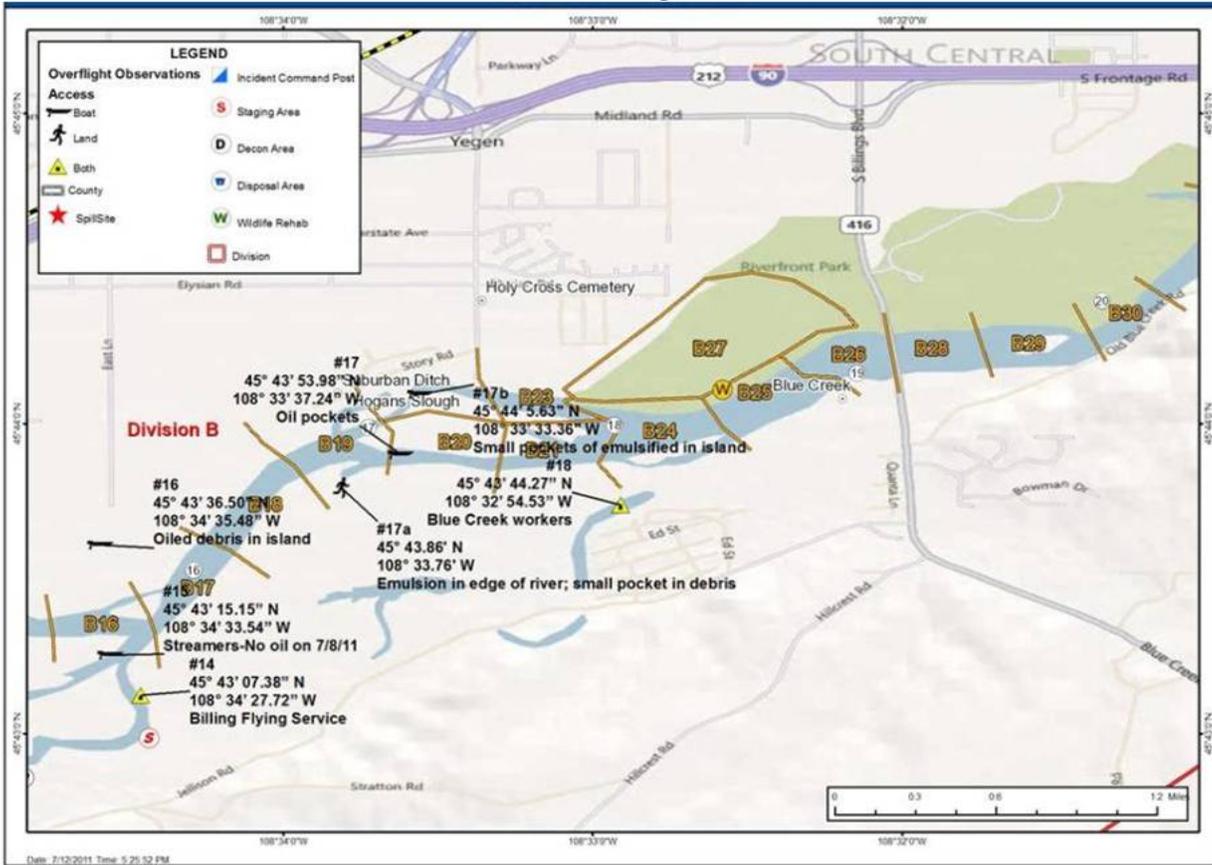
Division A West Assessment and Monitoring Areas 7-15



Division B West Assessment and Monitoring Areas 7-15



Division B East Assessment and Monitoring Areas 7-15



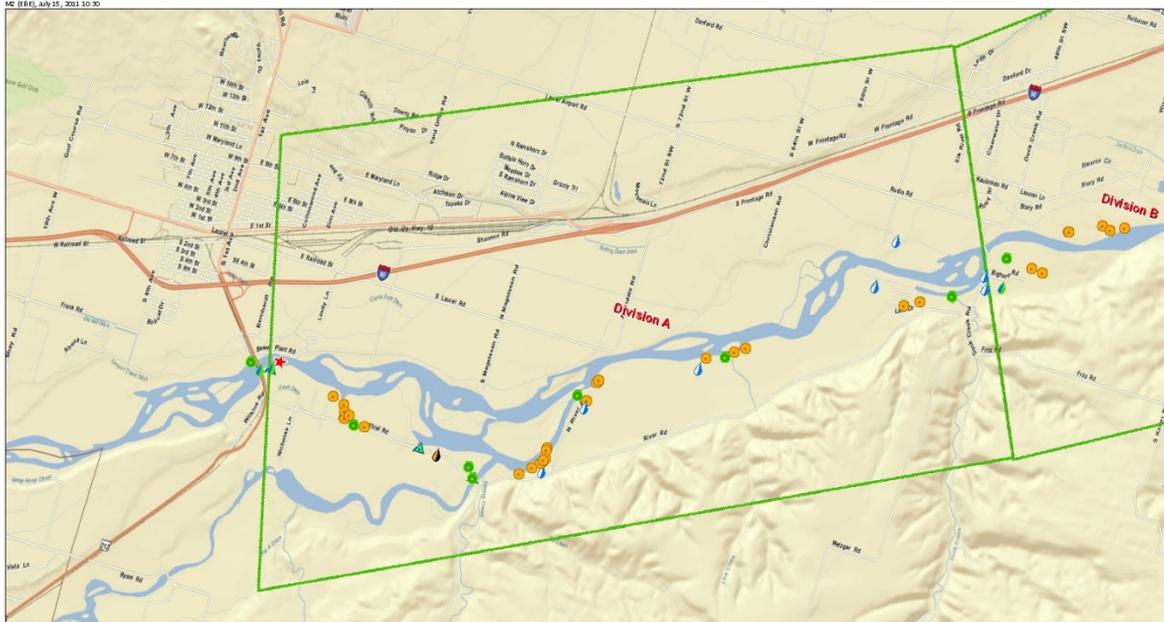
4.0 Environmental Unit Activities

- Coordinating sampling and data management with State of Montana agencies
- Continuing sediment, residential soil, drinking water and irrigation well sampling
- Coordinating the reviewing and providing comments on ExxonMobil's Workplan submitted per the AO
- Coordinating with Region 8 and Montana state toxicologists and other federal, state, and tribal partners on risk based criteria/cleanup levels
- Managing EPA sample data and other information for operational and situational status

Sampling (START and CTEH)

LATEST UPDATE: 07/16/11 AM		Date: 07/03/11- 07/09/11		Date: 07/10/11		Date: 07/11/11		Date: 07/12/11		Date: 07/13/11		Date: 07/14/11		Date: 07/15/11		TOTAL COLL'TED TO DATE:		
		EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	EPA	Exxon Mobil	
Water	Well	Surface	5	5	1	1			3	1	1		2		1	7	13	
		Drinking	4	35	4	2	7	5	1	6	2	4	2	2	2	5	22	59
		Irrigation	1	11		5		3	1	4				8		1	2	32
Soil								16		24		10		7		57	0	
Sediment								7		8		5		7		27	0	
Air		6	50		18		19		18		18		18		9	6	150	
Product		3		1												4	0	
Total		19	101	6	26	7	27	25	31	35	23	17	30	16	16	125	254	
EPA % Confirmation		19		23		26		81		152		57		100		49		

7-14 Soil and Sediment Sampling Locations Divisions A



The U.S. Environmental Protection Agency (EPA) has compiled this map using information from various sources. EPA does not warrant the accuracy, completeness, or timeliness of the information shown on this map. The user assumes all liability for any use of the information shown on this map.

Sample Locations as of 7-14 (20:00)
Division A

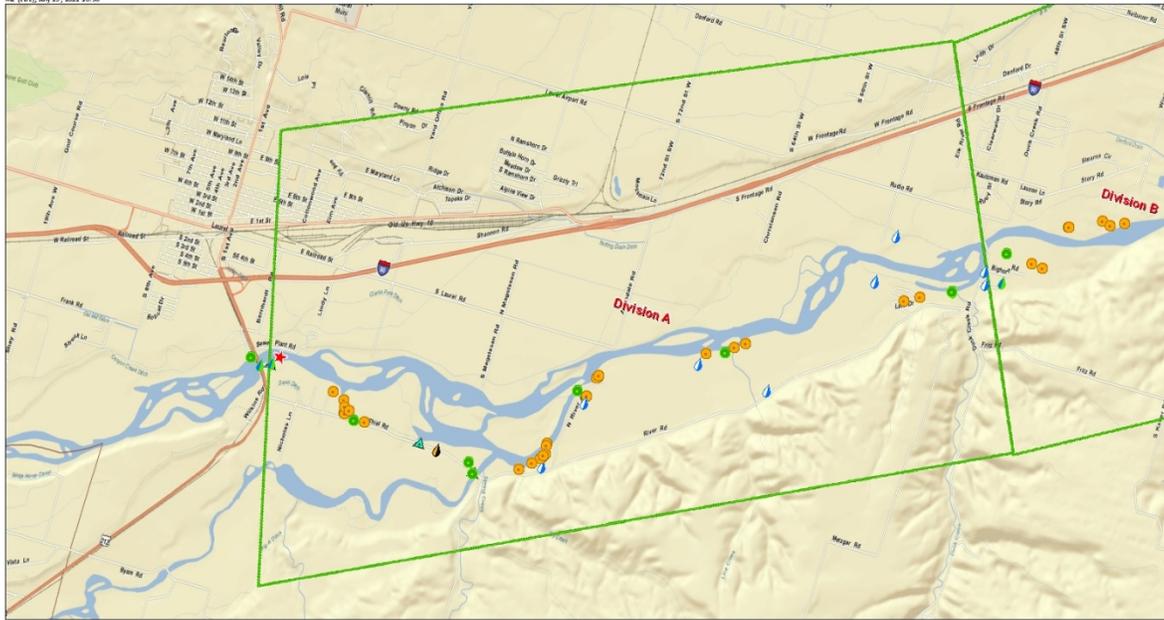
- ▲ Air
- Sediment
- Surface Soil
- Product (Oil)
- Irrigation Water
- Drinking Water
- Surface Water
- ★ Spill Site
- Division

Matrix	# of Samples
Air_Outdoor	3
Product_Oil	2
Sediment	8
Soil_Surface	27
Water_Drinking	8
Water_Groundwater	1
Water_Surface	4



7-15 Soil and Sediment Sampling Locations Divisions A

MC (R)61, July 15, 2001 10:30



Sample Locations as of 7-15 (20:00)
Division A

- ▲ Air
- Sediment
- Surface Soil
- Product (Oil)
- Irrigation Water
- Drinking Water
- ▲ Surface Water
- ★ SpillSite
- Division

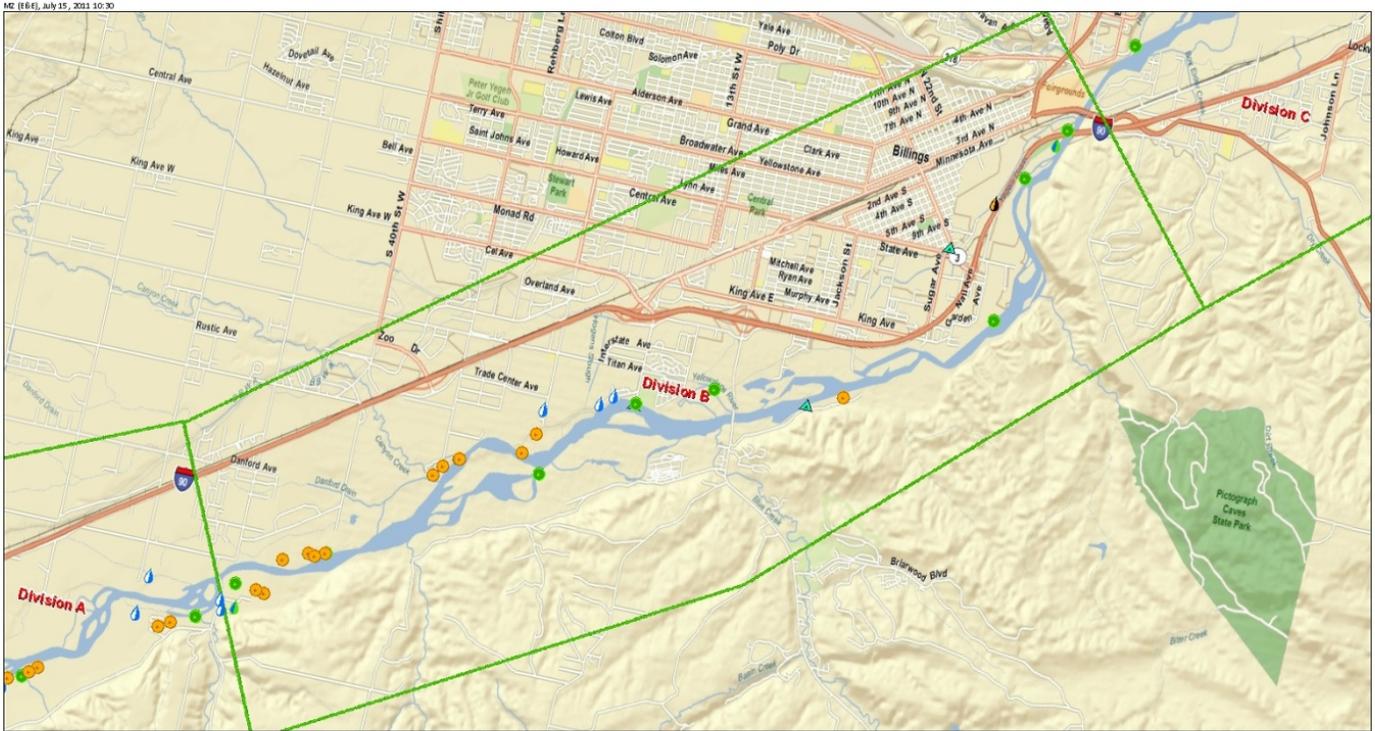
Matrix	# of Samples
Air_Outdoor	3
Product_Oil	2
Sediment	8
Soil_Surface	27
Water_Drinking	9
Water_Groundwater	1
Water_Surface	4



0 0.5 1 2 Miles

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7-14 Soil and Sediment Sampling Locations Divisions B



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Sample Locations as of 7-14 (20:00)

Division B

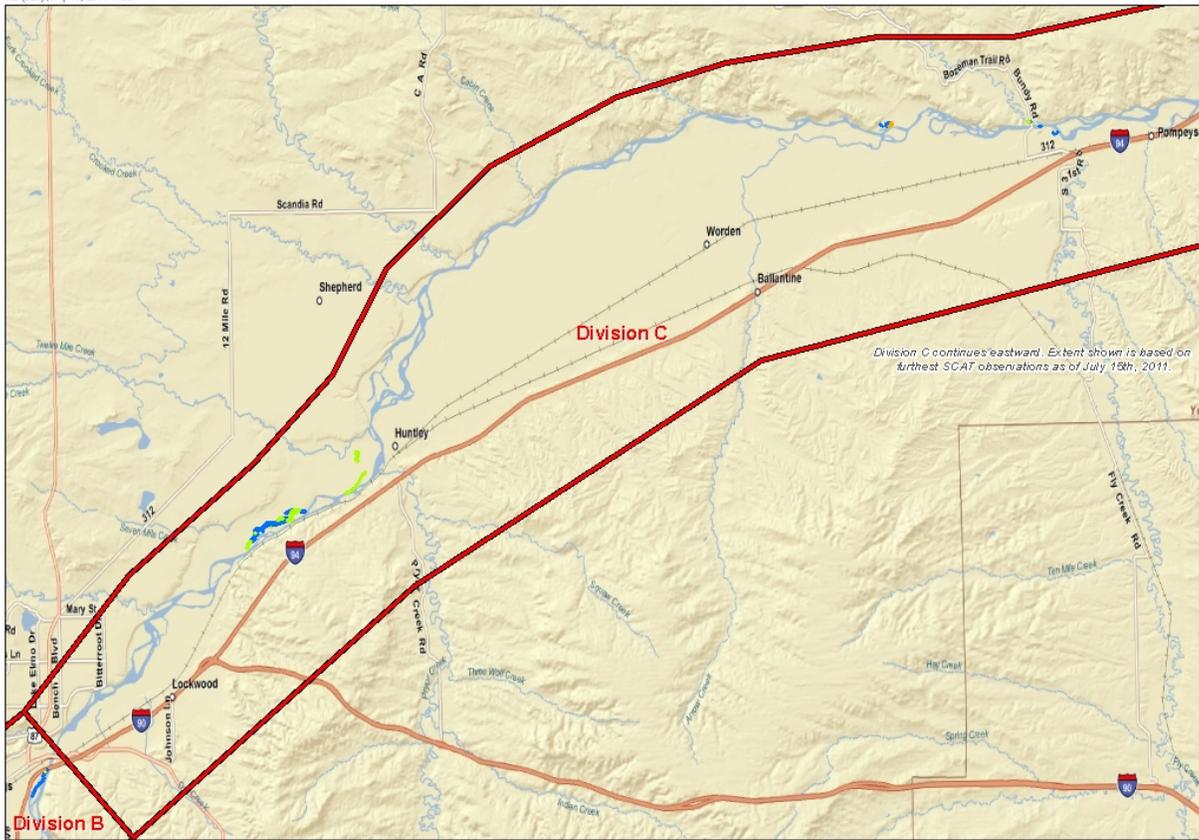
- ▲ Air
- Sediment
- Surface Soil
- Product (Oil)
- Irrigation Water
- Drinking Water
- ★ Spill Site
- Surface Water
- ★ Spill Site
- Division

Matrix	# of Samples
Air_Outdoor	3
Product_Oil	1
Sediment	8
Soil_Surface	14
Water_Drinking	4
Water_Surface	2



7-16 Soil and Sediment Sampling Locations Divisions C

MC (86B), July 16, 2011 14:00



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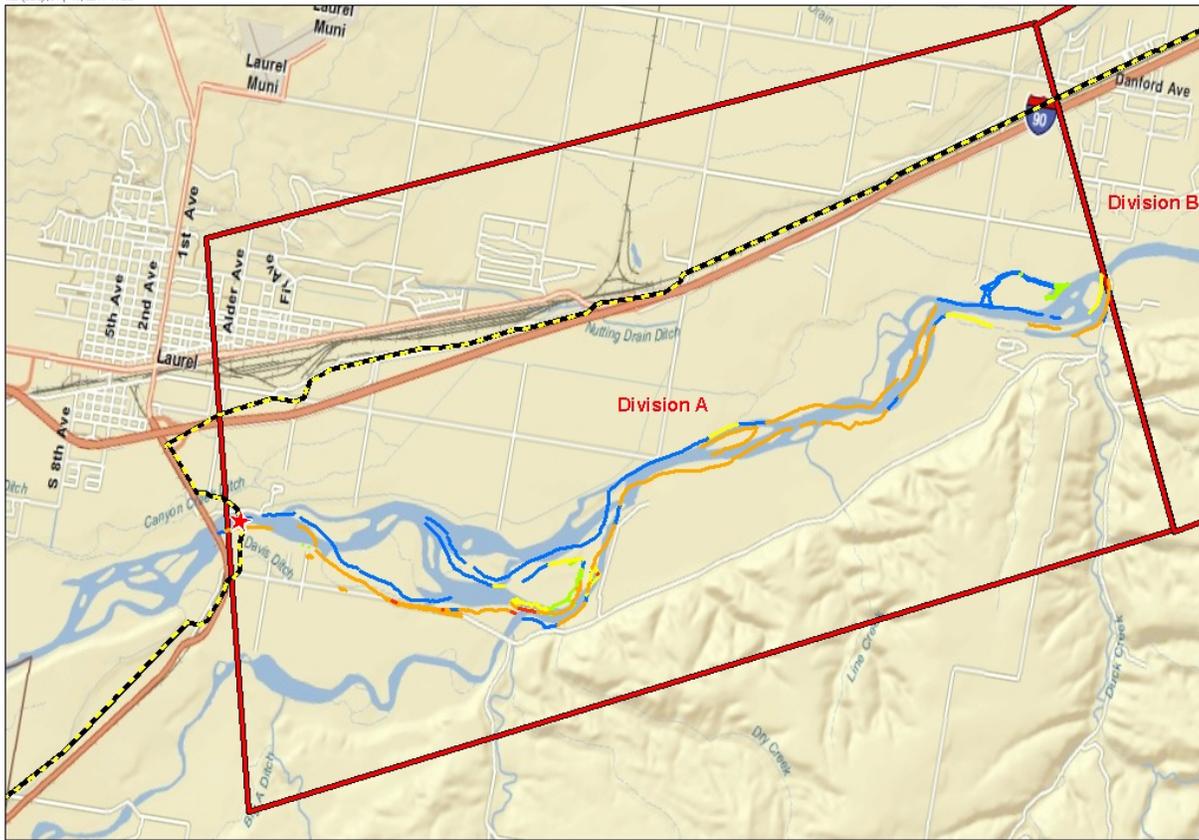
SCAT Observations Division C - July 16, 2011

- ★ Spill Site
- Division
- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed



7-16 SCAT Observations Divisions A

MC (856), July 16, 2011 14:00



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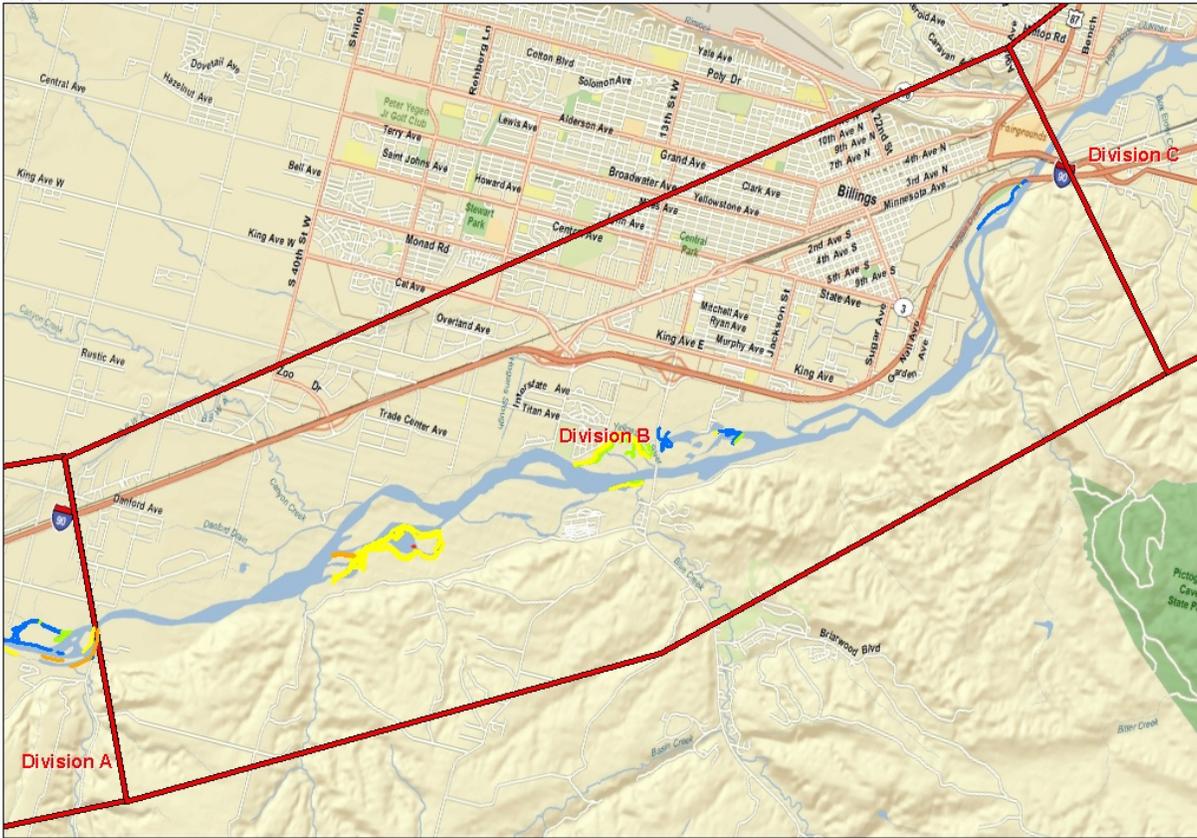
SCAT Observations Division A - July 16, 2011

- ★ Spill Site
- Division
- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed



7-16 SCAT Observations Divisions B

MC (868), July 16, 2011 14:00



The U.S. Environmental Protection Agency (EPA) has compiled this computer-generated map from data on oil spill observations that have been reported to the EPA. This data is based on a series of reports from state, local, and tribal agencies and is not intended to be used as a substitute for field observations. The EPA does not guarantee the accuracy, completeness, or timeliness of the information shown, and shall not be liable for any loss or injury resulting from reliance upon the information shown.

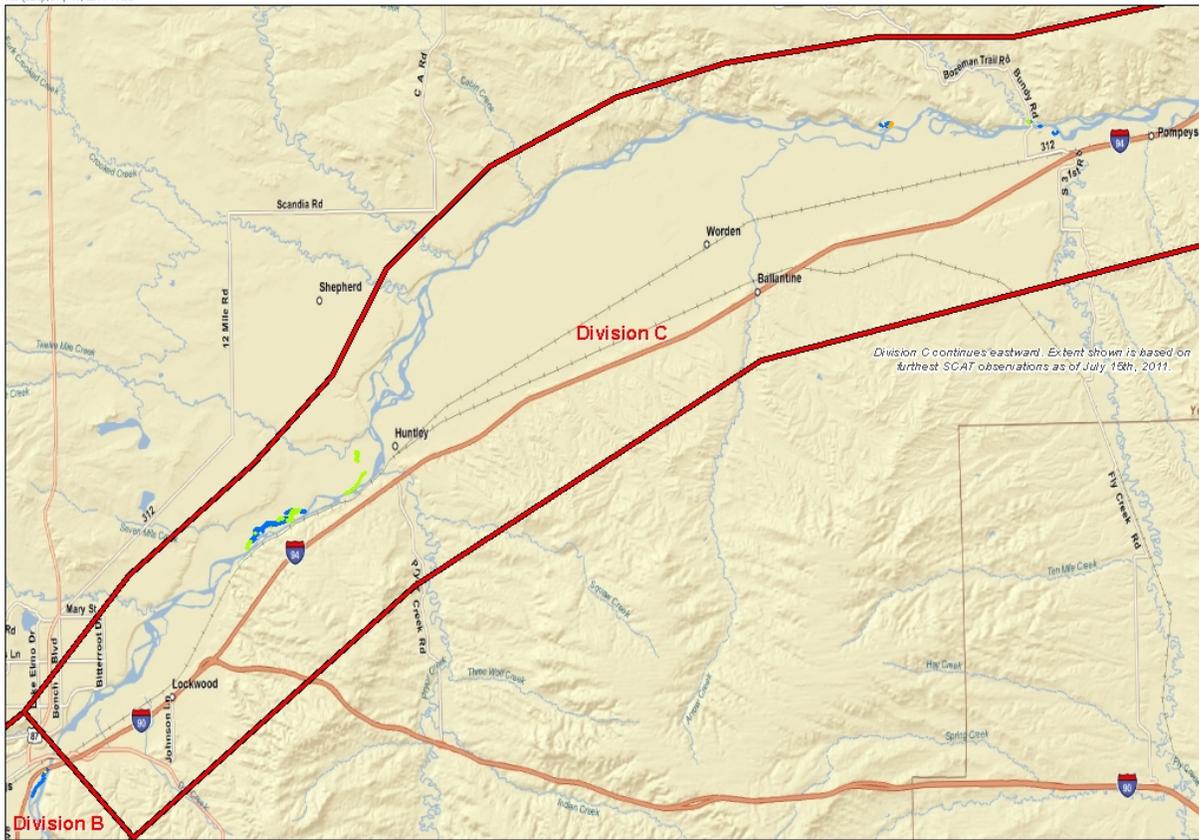
SCAT Observations Division B - July 16, 2011

- ★ Spill Site
- Division
- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed



7-16 SCAT Observations Divisions C

MC (86B), July 16, 2011 14:00



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SCAT Observations Division C - July 16, 2011

- ★ Spill Site
- Division
- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed



5.0 Additional Operations

5.1 Wildlife (7/14) International Bird Rescue (IBR) took in no wildlife today. The Wildlife Hotline received no calls of wildlife affected by the oil spill. However, the claims line did receive a call of oiled frogs on a landowner's private property.

Capture of the two oiled and hypothermic Canada geese is slated for Saturday morning. Using a net launcher, a U.S. Department of Agriculture employee is scheduled to attempt capture of the birds.

7/15 International Bird Rescue (IBR) took in no wildlife today. The Wildlife Hotline received no calls of wildlife affected by the oil spill.

The warbler in the rehabilitation center is now stable. International Bird Rescue (IBR) reported that the warbler is now feeding independently.

A plan to avoid disturbance of known bald eagle and osprey nests as well as heron rookeries in the area of operations was completed today and will be employed starting tomorrow. The location of know nests and rookeries was received from Montana Fish, Wildlife & Parks and incorporated in the response GIS.

6.0 Response Metrics

All progress metrics in this are as reported by ExxonMobil unless otherwise indicated.

Boom/Sorbent Report (7-14 and 7-15 data)

Equipment	Staged	Assigned
Boom Available (ft)	68,164/59,290	42,564/39,386
Sorbent Rolls	13,600/13,456	976/5,664
Sorbent Pads	2,513/2,624	2,283/2,745
Boom	10,700/NC ¹	500/400
Viscous Sweep	1,871	6,072

¹No Change

Soil and Debris Waste Tracking (7-14 and 7-15 data reported on 7/16)

Waste Stream	Recovered	Disposed	Staged	Cumulative Quantity Shipped
Oily Liquids (bbls)		942	0	942
Oily Solids (yd ³)	775	235	540	

7.0 Planning Section

A multi-agency work plan review workgroup which includes: MT DEQ, MT FWP, BLM, USFWS, BIA, and Crow Nation reviewed work plans pursuant their respective jurisdictional responsibilities and provided comments to ExxonMobil. The documents were submitted pursuant the CWA 311 Order which was issued to ExxonMobil last week. In light of the amount and level of detail required by comments EPA has requested that ExxonMobil respond with revised work plans by COB Tuesday, July 18th, 2011.

8.0 Anticipated Activities for Next Reporting Period

The next reporting period (SITREP #6) will cover July 16, 2011 0700 to July 19, 2011 0700.

9.0 Safety Reports

Nothing to report in this reporting period

10.0 Liaison/ Public Information Officer

On July 16, 2011 EPA held a media availability session. Updates were provided by the EPA along with MDEQ provided an update of currently cleanup activities. There were approximately 5 media outlets present.

EPA plans to issue media advisory on July 17 announcing the new call-in media availability schedule which will begin on July 18. Media availability sessions will be held from July 18 through July 22 at 3:00 pm. EPA intends to issue a news release the day after the media availability sessions.

Beginning Monday, July 18th, our daily media briefings will occur via conference call only at 3:00 MDT. There is no call on Sunday, July 17th. There will be no press releases this weekend but we will continue to post the latest information including monitoring data and progress on clean up and restoration on our website: epa.gov/yellowstoneriverspill

11.0 Finance Section

The current FPN ceiling is \$1 Million. Approximately 78.31% of the ceiling (\$1,000,000) has been expended or obligated through July 13, 2011. The latest estimated burn rate is \$69,886.20 per day. These cost summaries reflect only EPA-funded expenditures for the incident.

The current FPN ceiling is \$1 Million. Approximately 86.22% of the ceiling (\$1,000,000) has been expended or obligated through July 15, 2011. The latest estimated burn rate is \$69,886.20 per day. These cost summaries reflect only EPA-funded expenditures for the incident.

**FPN E11809 - Silvertip Pipeline Oil Spill
As of: 07/15/2011**

START Contractor (Ceiling)	Est. Expended	Est Burn Rate (Latest Daily)
R8, R6, R10 START - \$315,000 Sampl'g,Comm, Resp.Support	\$230,000.00	\$22,000.00
Response Contractor Sub-Totals	\$230,000.00	\$22,000.00
EPA Funded Costs:		
Total EPA Personnel Costs	\$213,355.00	\$19,497.00
Pollution Removal Funding Agreements:		
Total Other Agencies (Total \$375,000.00)	\$300,000.00	\$18,750.00
Sub-Totals	\$743,355.00	\$60,247.00
Indirect Cost (16.00%)	<u>\$118,937.00</u>	<u>\$9,639.20</u>
Total Est. Oil Spill Cost	\$862,292.00	\$69,886.20
Oil Spill Ceiling authorized by USCG	<u>\$1,000,000.00</u>	
Oil Spill Ceiling Available Balance	\$137,708.00	
Est. Percentage Spent	86.22%	

Note – Total EPA Personnel Costs have been adjusted to actuals on 7/15/2011

12.0 Personnel On Site

Agency/Entity	Numbers Reported 7/16/11
EPA	11
START	13
USCG	7
USFWS	10
US DOT	0
BIA	0
BLM	1
Total	42

13.0 Additional Information

For additional information, please refer to: <http://www.epa.gov/yellowstoneriverspill/>

14.0 Reporting Schedule

SITREPs are issued on the first day of the Operational Period and will continue until the UC establishes a different reporting schedule.

SitReps are posted to:

R08_Documentation_Unit_Leader@epa.gov