

ExxonMobil Pipeline Company

**SCAT Area Transition Report
for C05**

Silvertip Pipeline Incident
Laurel, Montana

October 28, 2011



SCAT Area Transition Report for C05

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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October 28, 2011

The observations described in this Report were made exclusively under the conditions at the time and subject to the limitations stated therein. It is understood by Client that ARCADIS has relied on the accuracy of documents, oral information, and other material and information provided by sources documented in this report, including but not limited to information provided by Client and Client's other contractors. ARCADIS has not independently verified any such information. The conclusions presented in the Report are based solely upon the observations and representations made by others.

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1. Executive Summary of Oil Removal Activities

This Shoreline Cleanup Assessment Technique (SCAT) Area Transition Report provides a summary of the SCAT surveys conducted to determine the extent of oiling along the riverbanks and floodplain within SCAT Area C05, as well as the oil remediation activities completed in this area based on the SCAT Team recommendations. This report also summarizes the environmental samples collected in SCAT Area C05. This report is intended to be read and used in conjunction with the Summary of Assessment and Oil Removal Activities report.

1.1 Land Ownership and Access Issues

Figure 1 provides an aerial map of SCAT Area C05, along with the (a) SCAT Area boundary, (b) parcel boundaries and respective property owners, and (c) access constraints identified during the oil cleanup process. The acreage surveyed in Area C05 is 55.5. There were no access issues for this area.

1.2 Cultural, Historic, and Natural Resource Constraints

No historic properties or cultural resources have been identified within this area that would affect oil removal activities.

Figure 2 summarizes the natural resources identified in this segment. International Bird Rescue and Resource Advisors from U.S. Fish and Wildlife Service conducted limited inspections of Area C05 due to the low level of oiling in Division C. No oiled wildlife was observed or recovered. One Wildlife Priority Cleanup Areas (WPCA) was identified in Area C05. The WPCA was an area on the island with transferable oil on vegetation and the ground. Operations addressed the WPCA and no further action is required. No active migratory bird nests were identified in Area C05.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area C05. The analytical results for the samples collected can be accessed through a publicly accessible database on the United States Environmental Protection Agency's (USEPA's) website. The approximate locations of samples collected within Area C05 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
	No Samples Collected*					

Appendix A contains a summary of sample results with detections for this sample set. Detections with a result above the screening level are highlighted; for this set, there were no detections in this area because no samples were taken.

1.4 Summary of Initial SCAT Surveys

The SCAT teams used systematic evaluation criteria and treatment method tables approved by the National Oceanic and Atmospheric Administration to provide a standard approach for data collection and conducting field surveys. The forms and sketches from the initial SCAT surveys performed along the river bank (water edge) and floodplain within Area C05 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area C05.

1.5 Applicable Compiled Treatment Recommendations

The SCAT team developed compiled treatment recommendations (CTRs) providing approved treatment methods (ATMs) for each oiling zone identified during the initial SCAT surveys ([CTR No. 30](#) and [CTR No. 57](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area C05 in accordance with the ATMs identified in the CTRs. [Appendix I](#) of the Summary of Assessment and Oil Removal Activities report presents this data including: date range/days worked, average number of people working per day, equipment used, and various types of bags removed: oily debris, personal protective equipment (PPE), plastic, trash, super sacks, wood chips, and contaminated wood.

1.7 Pre-Inspection Survey Transmittal

A Pre-Inspection Survey Transmittal (PIST) was not conducted for this area.

1.8 Post-Inspection Survey Transmittal

A Post-Inspection Survey Transmittal (POST) was not conducted for this area.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area C05 following completion of oil removal activities. The SCAT team performed final surveys of the right bank and island within SCAT Area C05 to confirm the agreed-upon cleanup endpoints identified in the applicable CTRs had been achieved. The final SCAT survey documentation is presented in Appendix E.

1.10 SCAT Area Conclusions

Based on the initial SCAT surveys of the left bank within Area C05, no oil was observed and therefore no further treatment was recommended. Based on the final SCAT surveys performed on the right bank and island within Area C05, no further treatment was recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.

A Wildlife Exception Memo was created to identify multiple wildlife hazards in Area C05, as discussed in Section 1.2. The areas identified in the Wildlife Exception Memo were treated and are no longer considered wildlife hazards. No additional work is required in this area. Details of the actions taken are described in Appendix G.

2. Transition Sign-Off Form

SCAT Area Transition Report for C05

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for C05**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for C05

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for C05**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for C05

Prepared for:

Unified Command

Date

Unified Command – MDEQ



- Legend**
- Parcel Access**
- Access
 - Conditional
 - BLM
 - Montana Trust
 - Unknown
 - No Access
 - Parcels

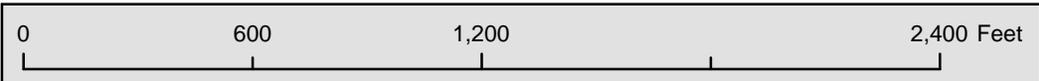


Figure 1

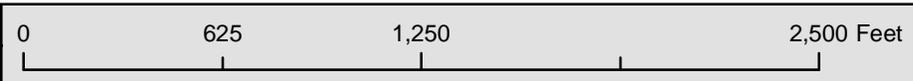
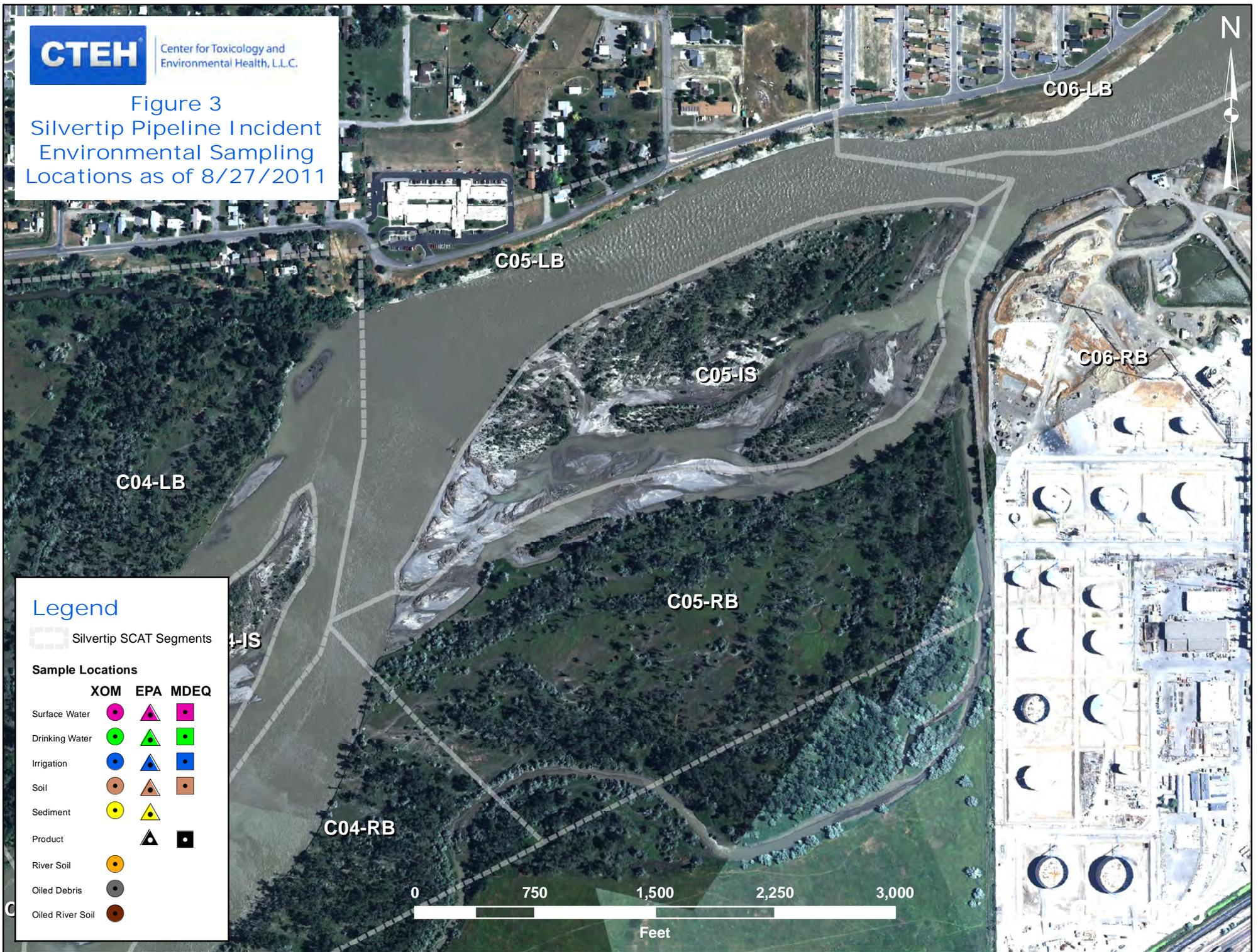


Figure 2
Wildlife Resources

Figure 3
Silvertip Pipeline Incident
Environmental Sampling
Locations as of 8/27/2011



Legend

Silvertip SCAT Segments

Sample Locations

	XOM	EPA	MDEQ
Surface Water			
Drinking Water			
Irrigation			
Soil			
Sediment			
Product			
River Soil			
Oiled Debris			
Oiled River Soil			





- 9999 Oiling Zone ID
- Heavy Oiling
- Moderate Oiling

- Light Oiling
- Very Light Oiling
- No Oil Observed

**Figure 4 - Maximum SCAT Observations
For SCAT Area:**



410 0 410 820 Feet





Appendix A

Sample Detection Summary



Sample Results For
SCAT Area C05

Printed 10/25/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
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No Samples Taken



Appendix B

Initial SCAT Survey Forms
and Sketches

DB 16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>C-5</u> Left Bank / Right Bank / Island		<u>24-07-11</u>	<u>1323</u> hrs to <u>1354</u> hrs	low - mean - bankfull overbank
Operations Division:				<u>falling</u> steady - rising
Survey by: <u>Foot/DATV</u> / Boat / Helicopter / Overlook /		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>27</u> deg C

2 SURVEY TEAM #	Name	Organization	Signature
	<u>Steve Kennedy</u>	<u>Cardno ENTRIX</u>	<u>[Signature]</u>
	<u>Chelsea Murphy</u>	<u>Cardno ENTRIX</u>	<u>[Signature]</u>
	<u>John Brown</u>	<u>MDEP</u>	<u>[Signature]</u>
	<u>Ron Lynne Jr</u>	<u>USCG</u>	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length 818 m Segment/Reach Length Surveyed 818 m

Start GPS: LATITUDE 45° 8' 42.92 deg. _____ min. LONGITUDE 108. 44' 9.14 deg. _____ min. Datum: WGS-84

End GPS: LATITUDE 45° 8' 16.211 deg. _____ min. LONGITUDE 108. 44' 0.368 deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud P Sand _____ Mixed _____ Pebble/Cobble S Boulder _____ Peat/Organic _____ Vegetated Bank: (P) Wooded Upland: _____

Sediment Flat: Clay/Mud P Sand _____ Mixed/Coarse _____ Other: S veg If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height _____ m canyon _____ manmade _____ meander S confined or leveed _____ Substrate Type: _____

Sloped: (>5°)(15°)(30°) 80% straight _____ braided P oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10 m 10-100 m >100m (160m) est. water depth: <1 m 1-3 m (3-10 m) >10 m _____ m

shoal(s) present Y(N) point bar present (Y)N bar-shoal substrate: silt / (sand) / (grave) / (cobble) / boulder / bedrock / debris

seasonal water level: low / mean / (bank full) / overbank flow est. change over next 7 days: (falling) - same - rising

5 OPERATIONAL FEATURES Suitable backshore staging Y/N Access: Direct from backshore (Y)N Alongshore from next segment (Y)N

Debris: Y(N) oiled Y/N amount _____ bags or _____ trucks access restrictions Steep bank

Oiled trees/shrubs Y(N) River Current strong Y(N) Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

549

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)		
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO
	m	m	%																		
A			<u>S</u>	<u>P</u>	<u>818</u>	<u><1</u>	<u>1</u>	<u>S</u>	<u>P</u>												

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH	OILED ZONE	SUBSURFACE OIL CHARACTER						WATER TABLE	SHEEN COLOUR	CLEAN BELOW	SUBST. TYPE(S)					
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO	cm	B, R, S, N	Yes / No	
					cm	cm-cm															

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

2-CA minor spots only; no further action recommended.

Overbank Survey Required Y(N) Overbank Survey Completed (Y)N Shoreline Survey Completed (Y)N

Sketch (Yes) / No Photos (Yes) / No Frames _____ Photographer Steve Kennedy

ekm 7/24/11



7/24/2011 2:57 pm

C5

Cherry Island

006

24-07-11_SAK

24-07-11_CKM

© 2011 Europa Technologies
© 2011 Google
Image © 2011 GeoEye

©2010 Google

Date: 7/31/2009 1996

45°48'57.55" N 108°26'42.46" W elev 3082 ft

Eye alt

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>CS</u>	<input checked="" type="radio"/> Left Bank / <input type="radio"/> Right Bank / <input type="radio"/> Island	<u>27/07/11</u>	<u>943</u> hrs to <u>945</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>C</u>				<input checked="" type="radio"/> falling - <input type="radio"/> steady - <input type="radio"/> rising
Survey by: <input checked="" type="radio"/> Foot / <input type="radio"/> ATV / <input type="radio"/> Boat / <input type="radio"/> Helicopter / <input type="radio"/> Overlook / _____	<input checked="" type="radio"/> Sun / <input type="radio"/> Clouds / <input type="radio"/> Fog / <input type="radio"/> Rain / <input type="radio"/> Snow / <input type="radio"/> Windy / <input type="radio"/> Calm			Air Temp +/- <u>30</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Chuck Pons</u>	<u>Cardno ENTRIX</u>	<u>[Signature]</u>
	<u>Joy Watson</u>	<u>MFWP</u>	
	<u>Ernie McKenzie</u>	<u>US BLM</u>	

3 SEGMENT Total Segment/Reach Length 850 m Segment/Reach Length Surveyed 850 m

Start GPS: LATITUDE 45 deg. 48'09" min. LONGITUDE 108 deg. 27'00.9" min. Datum: WGS 84

End GPS: LATITUDE 45 deg. 49'09.94" min. LONGITUDE 108 deg. 26'36.77" min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp P Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand P Mixed _____ Pebble/Cobble S Boulder _____ Peat/Organic _____ Vegetated Bank: Wooded Upland:

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate

Cliff or Bluff: Est Height 50 m canyon manmade _____ meander _____ confined or leveed _____ Substrate Type: S-14

Sloped: 30 (>5°)(15°)(30°) straight _____ braided oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m 100m 100m 110 est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present / N point bar present / N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling - same - rising

5 OPERATIONAL FEATURES

Suitable backshore staging / N Access: Direct from backshore / N Alongshore from next segment / N

Debris: Y / N oiled Y / N amount _____ bags or _____ trucks access restrictions _____

Oiled trees/shrubs Y / River Current strong Y / Other Features: _____

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)	
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO
909 A			<input checked="" type="radio"/>	<input checked="" type="radio"/>	<u>850</u>	<u>2</u>	<u>0</u>													<input checked="" type="radio"/>	<u>S-14</u>

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

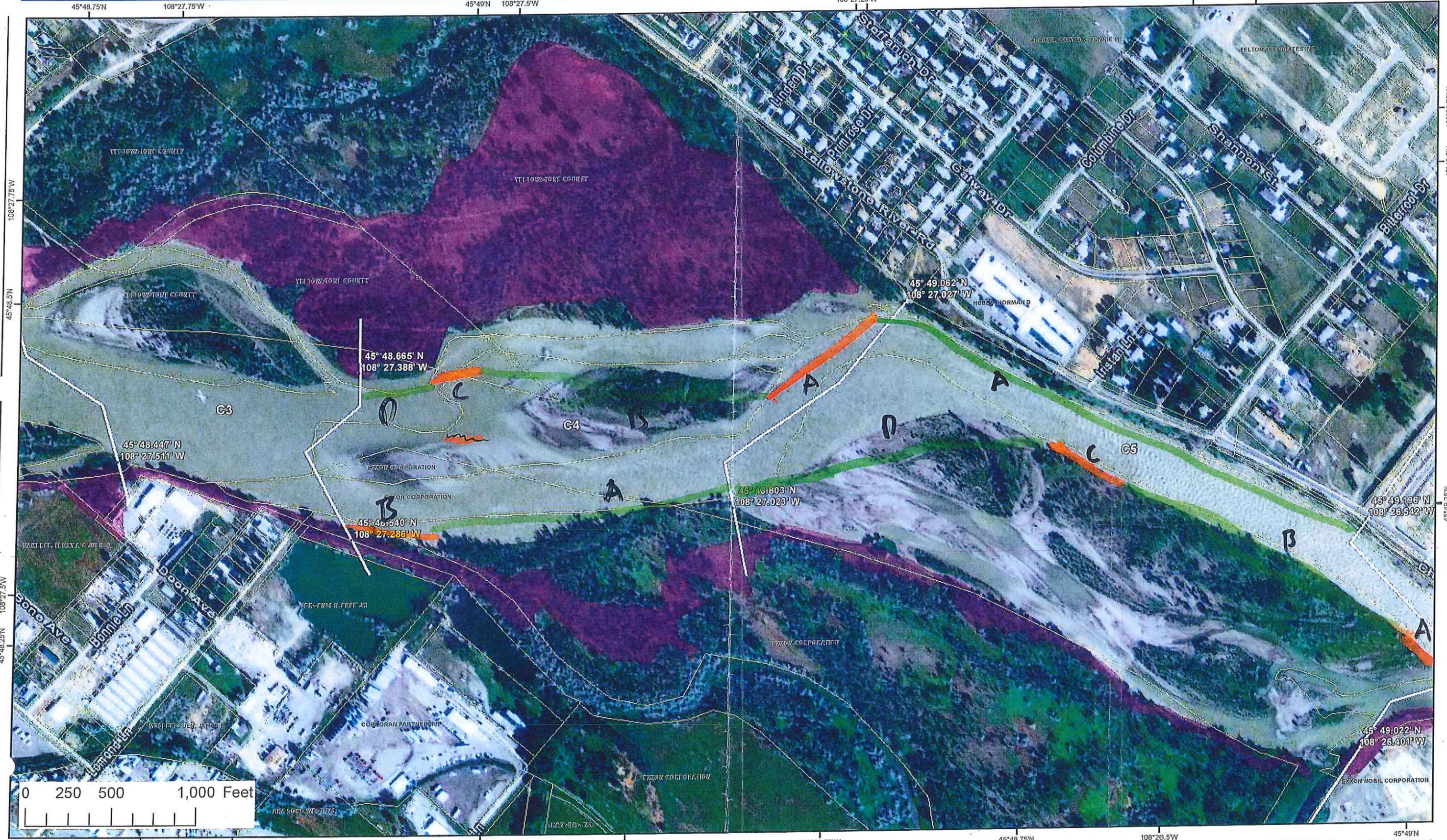
Overbank Survey Required Y / Overbank Survey Completed Y / Shoreline Survey Completed / N

No oil observed
No Treatment



SILVERTIP PIPELINE INCIDENT Yellowstone River Map 26

45°48.75'N 108°27.75'W 45°49'N 108°27.5'W 108°27.25'W 108°27'W 45°49.5'N



DB/6/15

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy) 13/08/11	Time (24h): std / daylight 1324 hrs to 1335 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: C05 <u>Left Bank</u> / Right Bank / Island				
Operations Division: C				
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / <u>Clouds</u> / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 3 2 _ deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
Joe Busalacchi	Cardno Entrix		
John Davis	USCG		
Donnie McCurry	DEQ		
Adam Bausch	Cardno Entrix		
Merlo Gauvreau	Polaris		

3 SEGMENT Total Segment/Reach Length 700 m Segment/Reach Length Surveyed 700 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp P Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud X Sand _____ Mixed _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: _____ Wooded Upland: _____

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: X Est Height 35 m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: Mixed

Sloped: (>5°)(15°)(30°) straight X braided _____ oxbow _____ flood plain valley _____ Forested / Vegetated Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 160m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present Y (N) point bar present Y (N) bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days falling - same - rising

5 OPERATIONAL FEATURES

Suitable backshore staging Y (N) Access: Direct from backshore Y (N) Alongshore from next segment Y (N)

Debris: Y (N) oiled Y (N) amount _____ bags or _____ trucks access restrictions _____

Oiled trees/shrubs Y (N) River Current strong Y (N) Other Features: Boat Access Steep Cliff

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO
A				<u>X</u>	<u>700</u>	<u>5</u>	<u>0</u>														<u>✓</u>

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

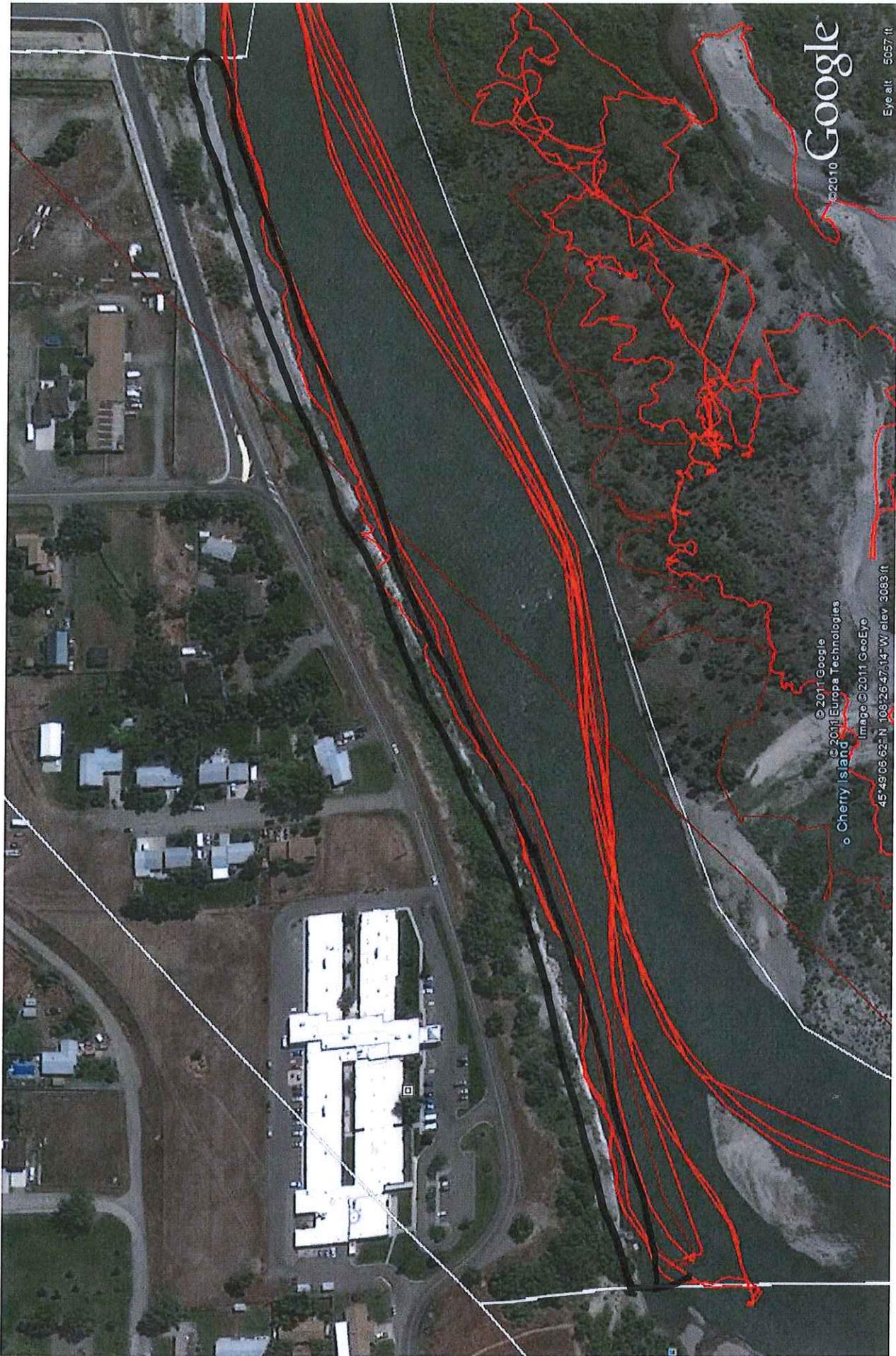
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y (N) Overbank Survey Completed Y (N) Shoreline Survey Completed Y (N)

Zone A - No Oil Observed - Cliffside Un-Vegetated except for one narrow spot

Sketch Yes / No Photos Yes / No Frames _____ Photographer _____



CSLB
Team #1
13/08/11

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>C5</u>	Left Bank / Right Bank / Island	<u>27/07/11</u>	<u>1216</u> hrs to <u>1220</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>C</u>	<u>Ac 10/4/11</u>			falling - steady - rising
Survey by: <u>Foot / ATV / Boat</u>	Helicopter / Overlook /	<u>Sup</u>	Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp + / - <u>30</u> deg C

2 SURVEY TEAM #	Name	Organization	Signature
<u>1</u>	<u>Chuck Pore</u>	<u>Cardno ENTRIX</u>	<u>[Signature]</u>
	<u>Jay Watson</u>	<u>MFWP</u>	
	<u>Ernie McKenzie</u>	<u>US BLM</u>	

3 SEGMENT Total Segment/Reach Length 850 m Segment/Reach Length Surveyed 850 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand P Mixed _____ Pebble/Cobble S Boulder _____ Peat/Organic _____ Vegetated Bank: [X] Wooded Upland: [X]

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: [X]

Sloped: (>5°)(15°)(30°) straight _____ braided [X] oxbow _____ flood plain valley _____ Forested / Vegetated / Bare [X]

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m 100m 100m 110 est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present [X] / N point bar present [X] / N bar-shoal substrate: silt / [X] sand / [X] gravel / [X] cobble / boulder / bedrock / debris

seasonal water level: low / mean / [X] bank full / overbank flow est. change over next 7 days: [X] falling - same - rising

5 OPERATIONAL FEATURES Suitable backshore staging Y / N Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris: Y / N oiled Y / N amount _____ bags or _____ trucks access restrictions

Oiled trees/shrubs Y / N River Current strong Y / N Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

900
901
902
903

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)			
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO	
A			X	X	25	2	60			S	P			X								Silt/veg
B			X	X	435	2	6														X	
C			X	X	90	2	60			S	P			X								
D			X	X	300	2	0														X	

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

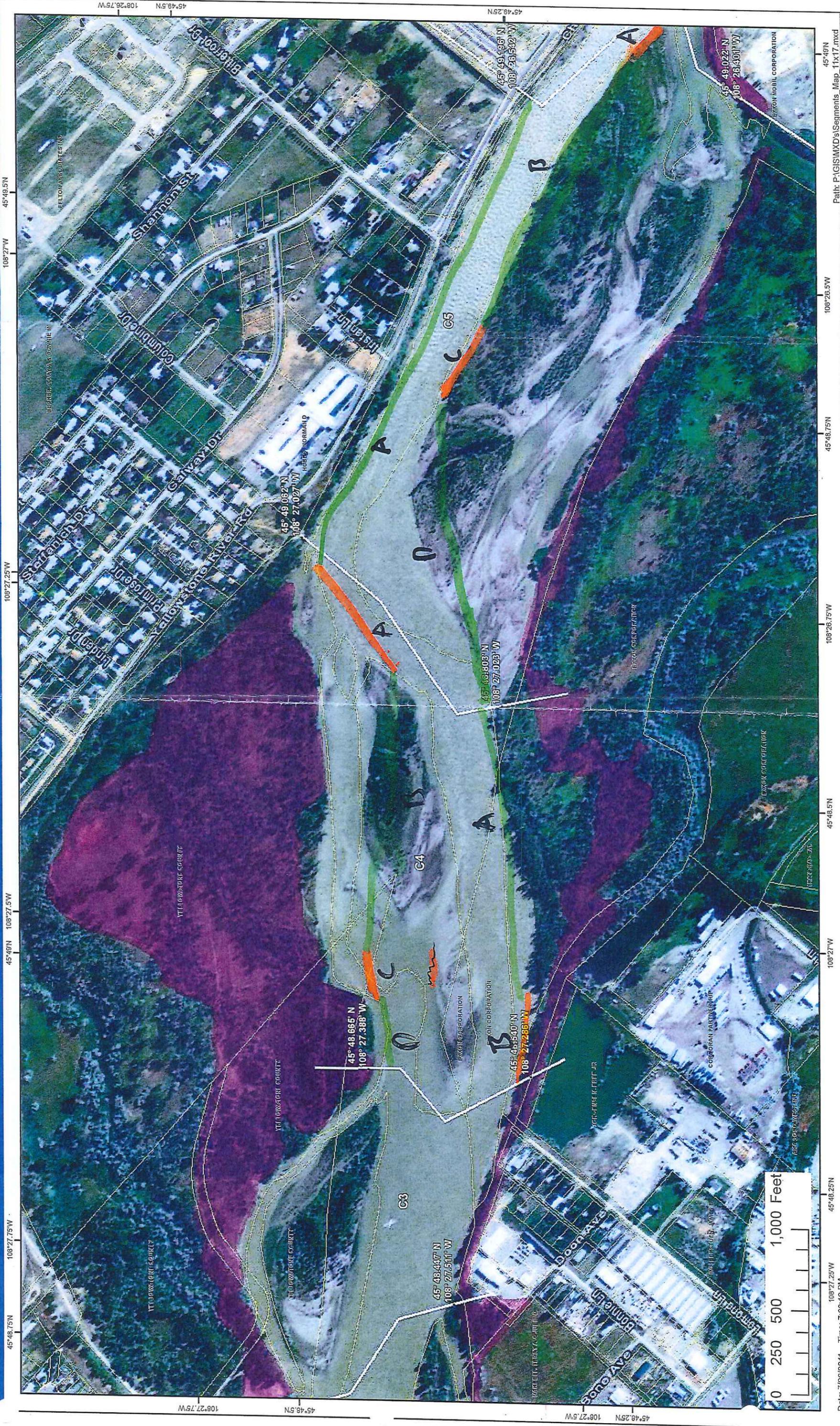
Overbank Survey Required [X] / N Overbank Survey Completed Y / [X] N Shoreline Survey Completed [X] / N

Zone A+C has strand + coastal veg (primarily succs)
veg needs to be cut out/removed and removed

Sketch [X] / No Photos [X] / No Frames _____ Photographer _____



SILVERTIP PIPELINE INCIDENT Yellowstone River Map 26



DB/GIS

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy) 13/08/11	Time (24h): std / daylight 1124 hrs to 1300 hrs	Water Level low - (mean - bankfull) overbank falling > steady - rising
Segment/Reach ID: C05 Left Bank / Right Bank (Island)				
Operations Division: C				
Survey by: Foot/ ATV (Boat) / Helicopter / Overlook /		(Sun) Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 32 deg C

2 SURVEY TEAM # 1,2	Name	Organization	Signature
	Joe Busalacchi	Cardno Entrix	
	John Davis	USCG	
	Donnie McCurry	DEQ	
	Adam Bausch	Cardno Entrix	
	Merlo Gauvreau	Polaris	

3 SEGMENT Total Segment/Reach Length 1,077.89 m Segment/Reach Length Surveyed 1285 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank Wooded Upland

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height _____ m canyon _____ manmade _____ meander confined or leveed _____ Substrate Type: Mixed

Sloped: (>5°)(15°)(30°) straight _____ braided oxbow _____ flood plain valley _____ Forested Vegetated Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 160m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present N point bar present N bar-shoal substrate: silt / sand / gravel / cobble boulder / bedrock / debris

seasonal water level: low mean / bank full / overbank flow est. change over next 7 days: falling - same - rising

5 OPERATIONAL FEATURES Suitable backshore staging N Access: Direct from backshore N Alongshore from next segment N

Debris: N oiled N amount 20 bags or _____ trucks access restrictions _____

Oiled trees/shrubs N River Current strong N Other Features: limited access island

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)			
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO	
A				X	550	175	1-10		X	<input checked="" type="checkbox"/>	X		X				<input checked="" type="checkbox"/>					debris/veg
B				X	85	20	<1				X		X									veg
C				X	650	220															X	

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

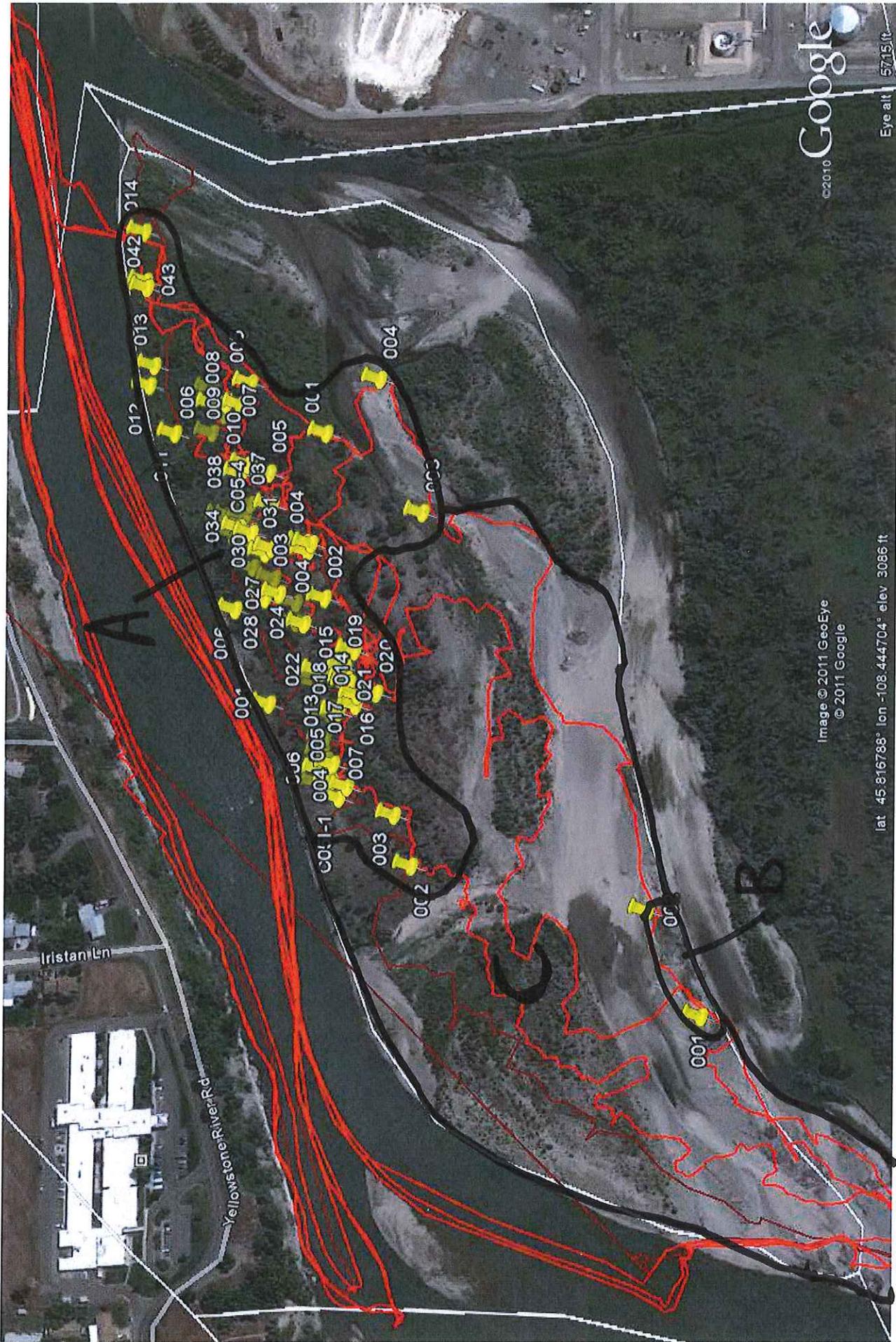
Overbank Survey Required N Overbank Survey Completed N Shoreline Survey Completed N

Zone A - Several ~ 1m² areas of debris were found w/ moderate cover we recommend removal of oiled debris (~ 20+ bags), in addition several areas of stain/coat on vegetation were identified in this zone recommend natural attenuation

Zone B - sporadic stain on grass/veg - NTR

Zone C - NOO

Sketch Yes / No Photos Yes / No Frames _____ Photographer _____



CSI
Team #) + d
13/08/11



Appendix C

Pre-Inspection Survey Transmittal

**A Pre-Inspection Survey was
not conducted for this area**



Appendix D

Post-Inspection Survey Transmittal

**A Post-Inspection Survey
was not conducted for this area**



Appendix E

Final SCAT Survey Forms
and Sketches

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>C5</u>	Left Bank / Right Bank / Island	<u>27/09/2011</u>	<u>13:00</u> hrs to <u>15:30</u> hrs	<u>3</u> low - bankfull - overbank
Operations Division: <u>C</u>		<u>(Sun)</u> Clouds / Fog / Rain / Snow / Windy / Calm		<u>3</u> falling - steady - rising
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>				Air Temp: <u>1</u> / <u>35</u> deg C

2 SURVEY TEAM # <u>1+2</u>	Name	Organization	Signature
	Todd FARRAR	POLARIS	<i>[Signature]</i>
	Lauren Glushik	POLARIS	<i>[Signature]</i>
	Matthew Kent	DEQ	<i>[Signature]</i>
	Merlo Gaudreau	POLARIS	<i>[Signature]</i>
	Tom Bouvington	DEQ	<i>[Signature]</i>

3 SEGMENT Total Segment/Reach Length 767 m Segment/Reach Length Surveyed 767 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand S Mixed S Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: (P) Wooded Upland: S

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ complete for primary

Sloped: (>5°)(15°)(30°) straight P braided S oxbow _____ flood plain valley _____ Substrate Type: Fixed

Forested / (P) Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m (100)m 160m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present (Y) / N point bar present Y / (N) bar-shoal substrate: silt / sand / (gravel) / cobble / boulder / bedrock / debris

seasonal water level: (low) / mean / bank full / overbank flow est. change over next 7 days: (falling) - same - rising

5 OPERATIONAL FEATURES

Suitable backshore staging Y (N) Access: Direct from backshore Y (N) Alongshore from next segment Y (N)

Debris (Y) / N oiled (Y) / N amount _____ bags or _____ trucks access restrictions

Oiled trees/shrubs (Y) / N River Current strong (Y) / N Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)			
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO		
A				X	767	522	L1			S	P								X				Ug, Db

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER								WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes/No	SUBST. TYPE(S)					
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR	NO										

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y (N) Overbank Survey Completed (Y) / N Shoreline Survey Completed (Y) / N

Sporadic Coat & Staining on vegetation & Debris
 Hot shot crew removed or treated oiled material. No further Treatment Required (NFT)

Sketch (Yes) / No Photos Yes / No Frames _____ Photographer _____



Teams 1 & 2
Sept. 27, 2011
C05 RB

Zone A
NFT

Yellowstone River
9/27/2011 4:58 pm
9/27/2011

ACTIVE LOG 004

ACTIVE LOG 001

27-SEP-11 03:27:57 PM

ACTIVE LOG 002

C04-IS

C04-LB

C04-RB

C05-RB

275

004

Lomond Ln

Scott St

Telford St

© 2011 Google

© 2011 Europa Technologies

Image © 2011 GeoEye

45°48'45.26" N 108°26'43.17" W elev 3087 ft

1996

Eye alt

© 2013
GOO

D13/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>C5</u>	Left Bank / Right Bank (Island)	<u>12/09/2011</u>	<u>9:30</u> hrs to <u>14:30</u> hrs	<u>low</u> - mean - bankfull - overbank
Operations Division: <u>C</u>				<u>low</u> - steady - rising
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp + / - <u>27</u> deg C	

2 SURVEY TEAM # <u>2</u>	Name	Organization	Signature
	<u>HERLO GAUREAU</u>	<u>POLARIS</u>	<u>[Signature]</u>
	<u>DAMIEN KORTE</u>	<u>CARDNO ENTRIX</u>	<u>[Signature]</u>
	<u>EDWARD E. KIETZ</u>	<u>DEQ</u>	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length 915 m Segment/Reach Length Surveyed 600 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand S Mixed X Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: (S) Wooded Upland: (P)

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: Mixed

Sloped: _____ (>5°)(15°)(30°) straight _____ braided X oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present (Y) N point bar present Y / N bar-shoal substrate: silt / sand / gravel (Cobble) / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: (falling) - same - rising

5 OPERATIONAL FEATURES Suitable backshore staging Y / N Access: Direct from backshore (Y) Alongshore from next segment Y / (N)

Debris: (Y) N oiled (Y) N amount 0 bags or _____ trucks access restrictions

Oiled trees/shrubs (Y) N River Current strong (Y) N Other Features: _____

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				X	600	275	<1				X								X			DB, LG, VG

2271

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

A: Re SCAT, Stain on trees and vegetation and large debris meet the conditions of the CTR, NFT

Sketch Yes/No Photos Yes/No Frames/Photographer: _____

SCAT
Team 7
9/12/11
C05-IS

C05-LB

Cherry Island

C05-IS

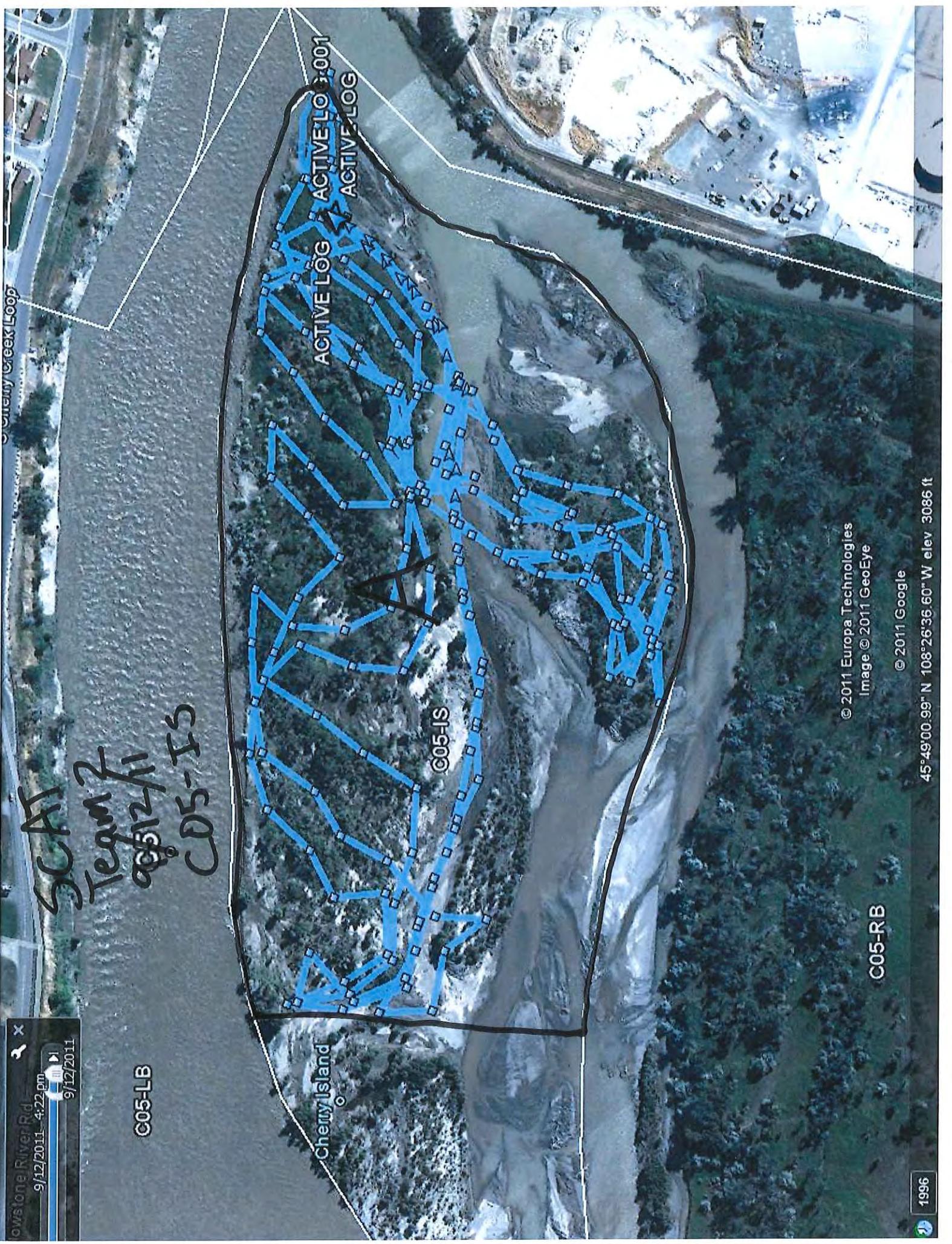
ACTIVE LOG
ACTIVE LOG
ACTIVE LOG

C05-RB

© 2011 Europa Technologies
Image © 2011 GeoEye

© 2011 Google

45°49'00.99" N 108°26'36.60" W elev 3086 ft





Appendix F

Completed SCAT Segment
Sign-Off Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment C5 RB Date of Survey 27/09/2011

Dates of Initial SCAT Assessments 24 Jun 2011 (13)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 30

Segment has been treated by Operations or an Operations Hotshot Team YES NO

Segment Assessment Complete¹
Partial Segment Assessment

The undersigned are in agreement that the above segment or partial segment meets the Approved Treatment Methods Target Endpoints.

This Segment is Conditionally Approved
(See attached Post Inspection Survey Transmittal (POST))

The undersigned are in agreement that the above segment meets the Approved Treatment Methods Target Endpoints conditional upon completion of the treatment identified in the attached Post Inspection Survey Transmittal (POST).

No Federal Rep Present

Sign Name _____ Print Name/ Affiliation _____ Date _____
Federal Representative (EPA/USCG)

[Signature] MATT GUN KWIK / MT DEQ 9/27/2011
Sign Name _____ Print Name/ Affiliation _____ Date _____
State Representative (DEQ/FWP)

[Signature] LAUREN GLUSHIK / POLARIS 27 SEP 11
Sign Name _____ Print Name/ Affiliation _____ Date _____
RP Representative (SCAT RP Representative)

Once all applicable SCAT Segments (i.e. LB, RB, and IS) within a particular SCAT Area (i.e. A21) have been successfully signed-off during a formal SCAT Assessment, the SCAT Area will achieve the Response Endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ.

¹ A Segment Sign-Off Assessment is considered complete when all accessible lands that have not already been signed-off by a claims liaison have been surveyed. If any previous SCAT Assessments were conducted, all lands that were originally recommended for treatment must be re-surveyed in the Sign-Off Assessment. If the conducted survey does not meet these conditions it is considered a Partial Assessment. Multiple Partial Assessments that meet the conditions of a Complete Assessment may together constitute a Complete Sign-Off Assessment.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment C5 IS Date of Survey 12/09/2011

Dates of Initial SCAT Assessments 13 AUG 11 (FC)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 57

Segment has been treated by Operations or an Operations Hotshot Team YES NO

Segment Assessment Complete¹
Partial Segment Assessment

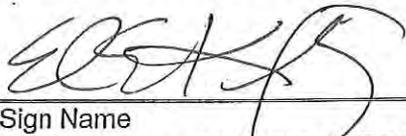
The undersigned are in agreement that the above segment or partial segment meets the Approved Treatment Methods Target Endpoints.

This Segment is Conditionally Approved
(See attached Post Inspection Survey Transmittal (POST))

The undersigned are in agreement that the above segment meets the Approved Treatment Methods Target Endpoints conditional upon completion of the treatment identified in the attached Post Inspection Survey Transmittal (POST).

No federal rep.

Sign Name _____ Print Name/ Affiliation _____ Date _____
Federal Representative (EPA/USCG)

 _____ EDWARD E. KIEHL / MT-DEQ. _____ 9/12/11
Sign Name _____ Print Name/ Affiliation _____ Date _____
State Representative (DEQ/FWP)

 _____ Herlo GAUVREAU, POLARIS _____ 12/09/2011
Sign Name _____ Print Name/ Affiliation _____ Date _____
RP Representative (SCAT RP Representative)

Once all applicable SCAT Segments (i.e. LB, RB, and IS) within a particular SCAT Area (i.e. A21) have been successfully signed-off during a formal SCAT Assessment, the SCAT Area will achieve the Response Endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ.

¹ A Segment Sign-Off Assessment is considered complete when all accessible lands that have not already been signed-off by a claims liaison have been surveyed. If any previous SCAT Assessments were conducted, all lands that were originally recommended for treatment must be re-surveyed in the Sign-Off Assessment. If the conducted survey does not meet these conditions it is considered a Partial Assessment. Multiple Partial Assessments that meet the conditions of a Complete Assessment may together constitute a Complete Sign-Off Assessment.



Appendix G

Exception Memos

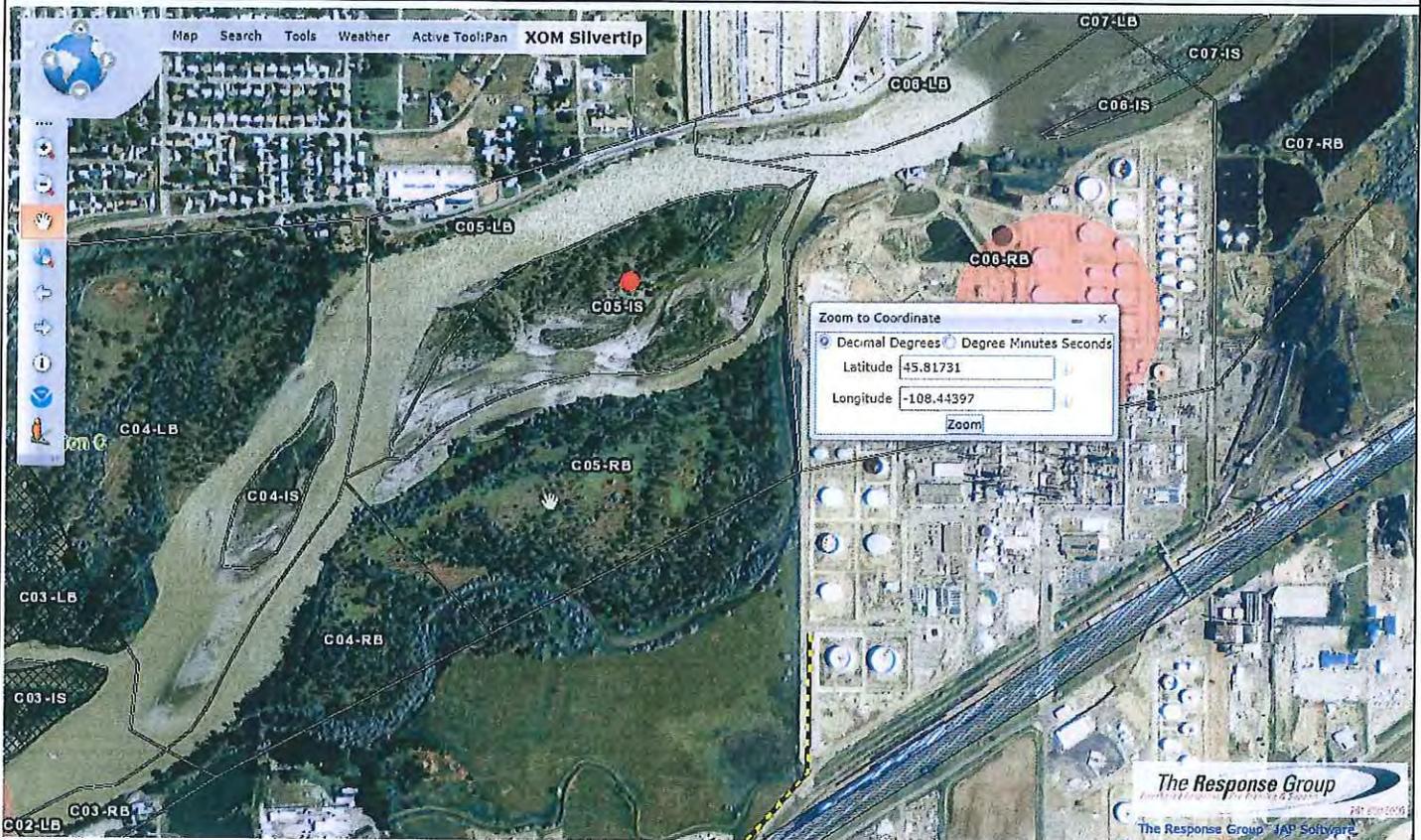
GENERAL MESSAGE - SCAT AND OPERATIONS GUIDANCE FOR C-5 IS PATTIES AND OIL ON VEGETATION

TO: Jimmie James, RPIC Jenny Chambers, SOSC Steven Merritt, FOSC	POSITION: ExxonMobil Montana DEQ State On-Scene Coordinator EPA Federal On-Scene Coordinator
FROM: Wildlife Branch	POSITION: Wildlife Deputy Chief
SUBJECT: C-5 IS	DATE: 09.05.2011 TIME: 0820-1018

MESSAGE: International Bird Rescue and Resource Advisors with the USFWS identified several areas in SCAT sector C-5 Island. This segment is listed as incomplete but is presenting a threat to wildlife. Several areas are recommended for remediation to reduce potential exposure. Bird activity on the island is high and insect activity in the oiled areas is also high increasing exposure risk. **The area depicted in the map below is high priority area that has oil on tree limbs that is easily transferable even on cool mornings. The other high priority area in this sector is N 45.81754 by W 108.44472, this is a thick oil patty that transfers oil easily.** Several other areas were noted on this island and include the following:

- N 45.81867 by W 108.44213 – light to medium oil on grass
- N 45.81815 by W 108.44243 – light to medium oil on grass
- N 45.81805 by W 108.44235 – small patty of oil on wood debris
- N 45.81737 by W 108.44289—thick oil on tree branches and grass

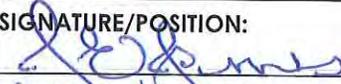
The oil patties on the north side of the island run the length of the island from west to east.



SIGNATURE: <i>[Handwritten Signature]</i> per Nathan Cook 9/13/11 operations - on-water crew completed activity <i>[Handwritten Signature]</i>	POSITION: Wildlife Deputy Chief
---	--

REPLY: SCAT and Operations

The Unified Command is aware of this area within SCAT Segments C5IS and that operations within these segments have been completed by operations and Re-SCAT efforts. We agree with the recommended treatment proposed above for this area. ExxonMobil will coordinate any future remediation activities at this site with MTDEQ. In the meantime, this segment will be flagged as a "Wildlife Exception" and excised within GIS maps from the Re-SCAT report that will be produced to close-out the segment. This document will be included as an attachment to the Area Transition Report to document the need for additional work within this segment beyond Re-SCAT and a POST should be used to re-close the segment once these wildlife concerns are addressed by operations teams.

DATE: 09/09/2011	TIME: 11:00	SIGNATURE/POSITION:  Jimmie James, RPIC <i>revised</i>  Jenny Chambers, SOSC  Steven Merritt, FOSC
----------------------------	-----------------------	--

9/11/11 07:55
HBT

