

ExxonMobil Pipeline Company

**SCAT Area Transition Report for
B31**

Silvertip Pipeline Incident
Laurel, Montana

October 26, 2011



SCAT Area Transition Report for B31

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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B0085883.1103

Date:
October 26, 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 B31, 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 B31. 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 B31, 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 B31 is 62.9. There were partial access issues for the left bank, right bank, and island areas of B31.

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 regular inspections of Area B31. Three lightly oiled ducks (unknown species) were observed but not captured for cleaning. One deceased Canada goose (*Branta canadensis*) with no visible oiling was identified and retained. No Wildlife Priority Cleanup Areas were identified. An Osprey nest (*Pandion haliaetus*) was identified in Area B31. In addition, a portion of a bald eagle (*Haliaeetus leucocephalus*) nesting buffer zone extends into Area B31 and was provided to Operations.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B31. 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 B31 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	LAMT0709DW107	09-Jul-11	Water_Drinking	LAMT_308_DW107	45.742175	-108.513018
EPA	SPSO140D01_071611	16-Jul-11	Soil_Surface	SPSO140	45.742542	-108.512997

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 exceedances in this area.

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 B31 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B31.

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. 27](#), [CTR No. 38](#), [CTR No. 42](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B31 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, 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 B31 following completion of oil removal activities. The SCAT team performed final surveys of the right bank, left bank, and island areas within SCAT Area B31 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 final SCAT surveys performed on the right bank, left bank, and island areas within Area B31, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B31**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B31

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B31**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B31

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for B31**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B31

Prepared for:

Unified Command

Date

Unified Command – MDEQ

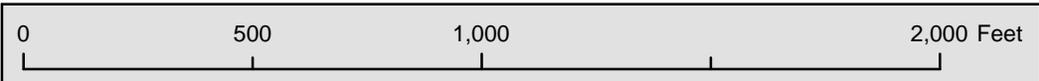
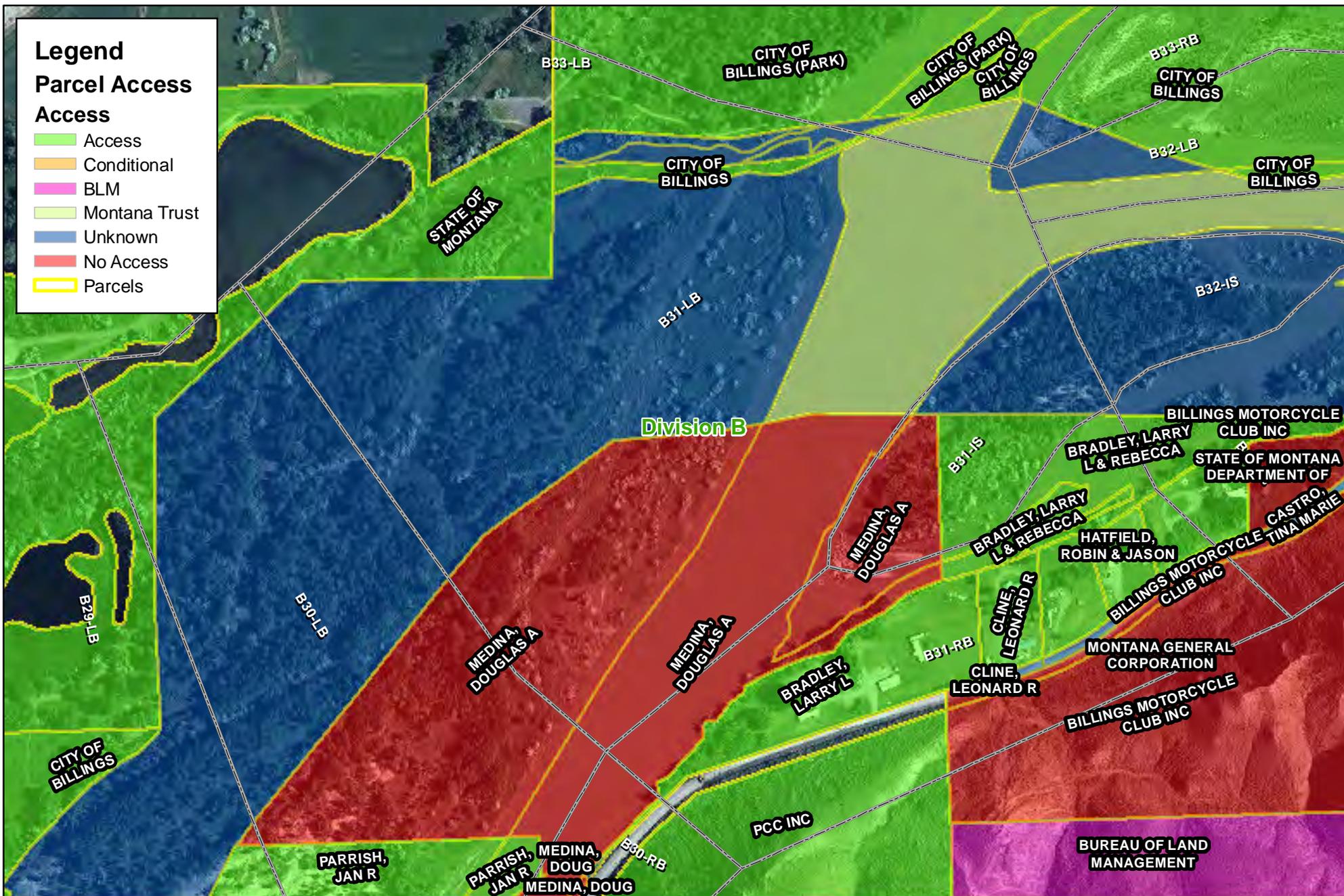
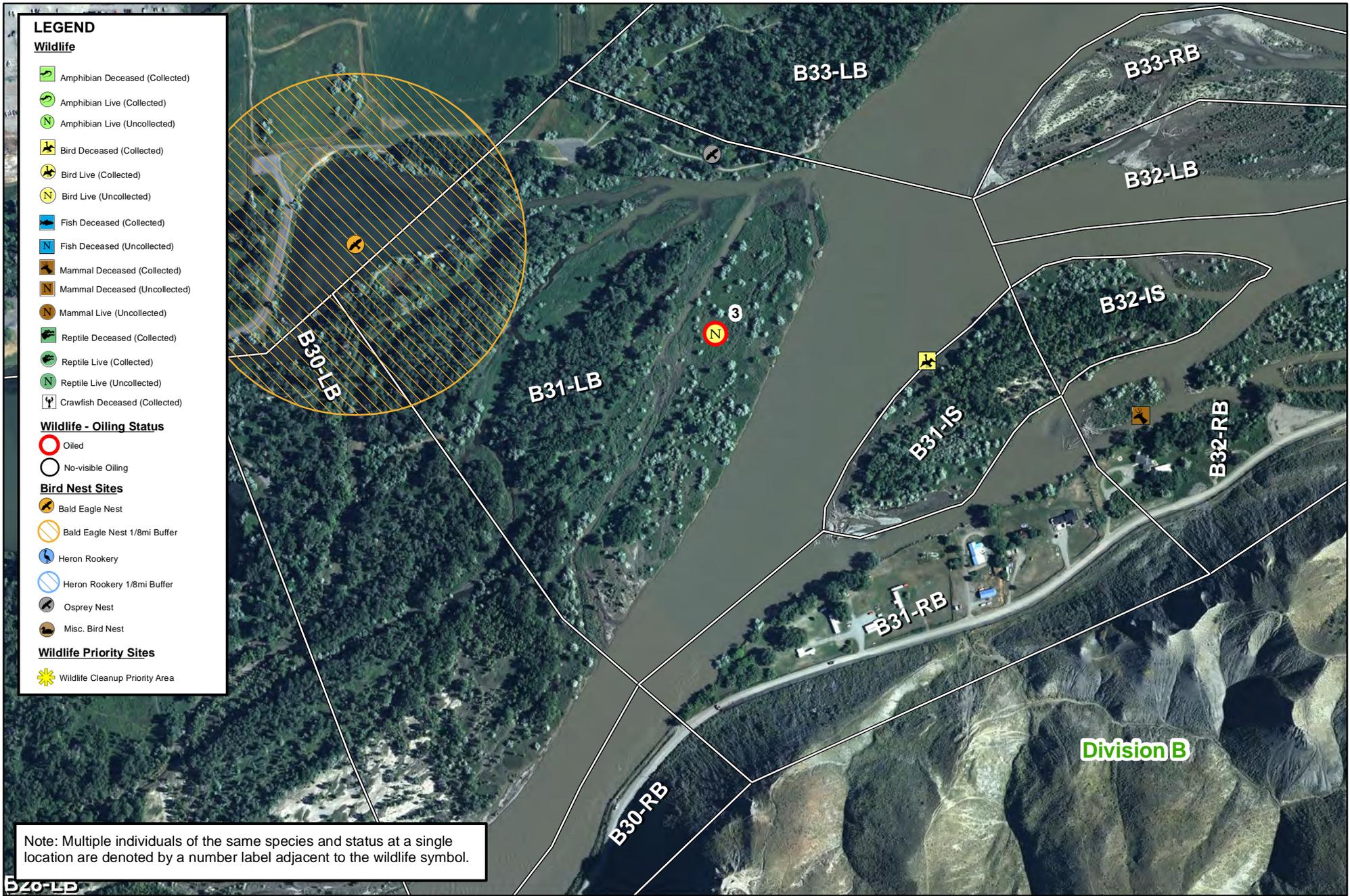


Figure 1



LEGEND

Wildlife

- Amphibian Deceased (Collected)
- Amphibian Live (Collected)
- Amphibian Live (Uncollected)
- Bird Deceased (Collected)
- Bird Live (Collected)
- Bird Live (Uncollected)
- Fish Deceased (Collected)
- Fish Deceased (Uncollected)
- Mammal Deceased (Collected)
- Mammal Deceased (Uncollected)
- Mammal Live (Uncollected)
- Reptile Deceased (Collected)
- Reptile Live (Collected)
- Reptile Live (Uncollected)
- Crawfish Deceased (Collected)

Wildlife - Oiling Status

- Oiled
- No-visible Oiling

Bird Nest Sites

- Bald Eagle Nest
- Bald Eagle Nest 1/8mi Buffer
- Heron Rookery
- Heron Rookery 1/8mi Buffer
- Osprey Nest
- Misc. Bird Nest

Wildlife Priority Sites

- Wildlife Cleanup Priority Area

Note: Multiple individuals of the same species and status at a single location are denoted by a number label adjacent to the wildlife symbol.

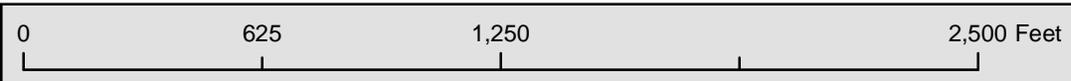
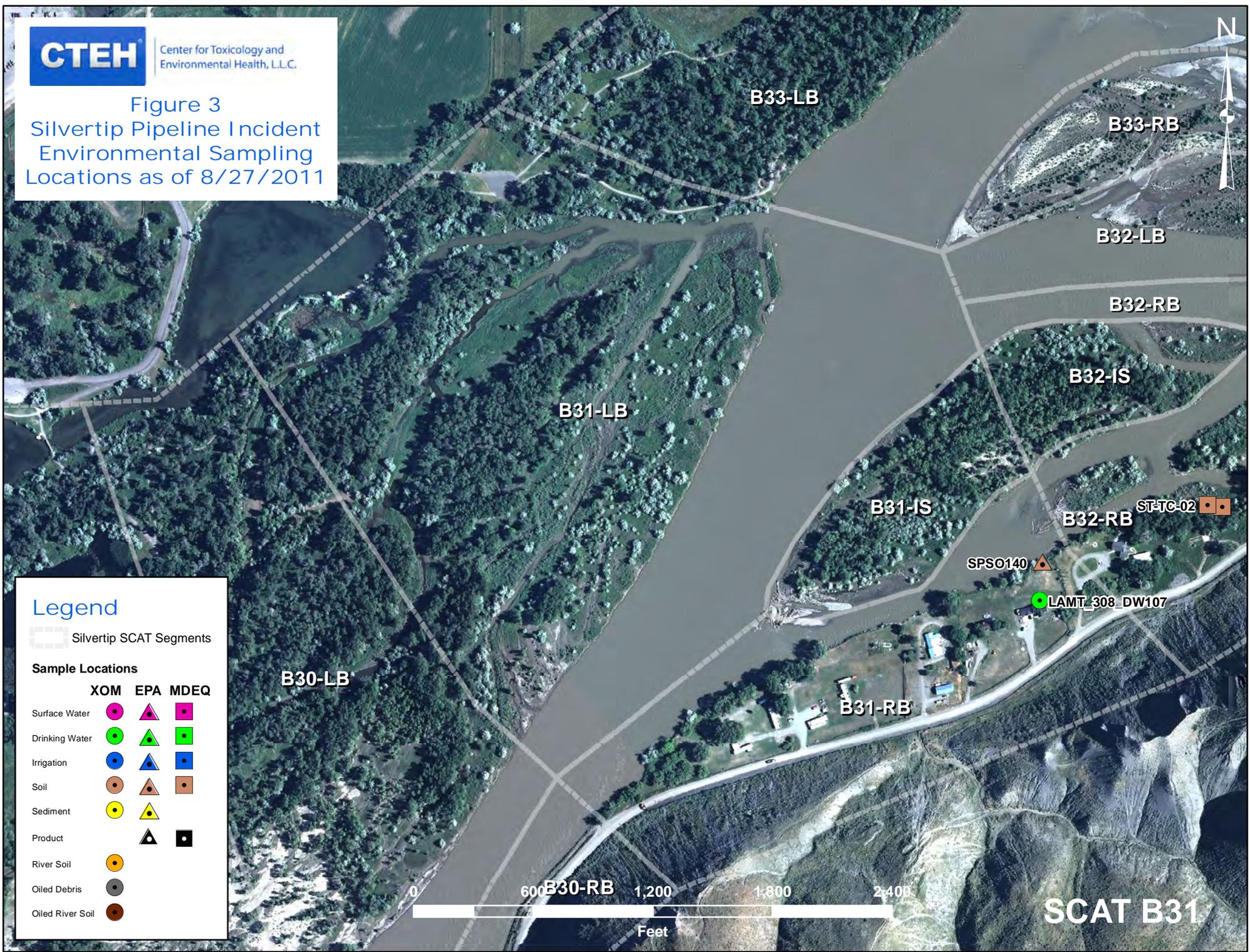


Figure 2
Wildlife Resources



Center for Toxicology and Environmental Health, L.L.C.

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



Legend

Silvertip SCAT Segments

Sample Locations

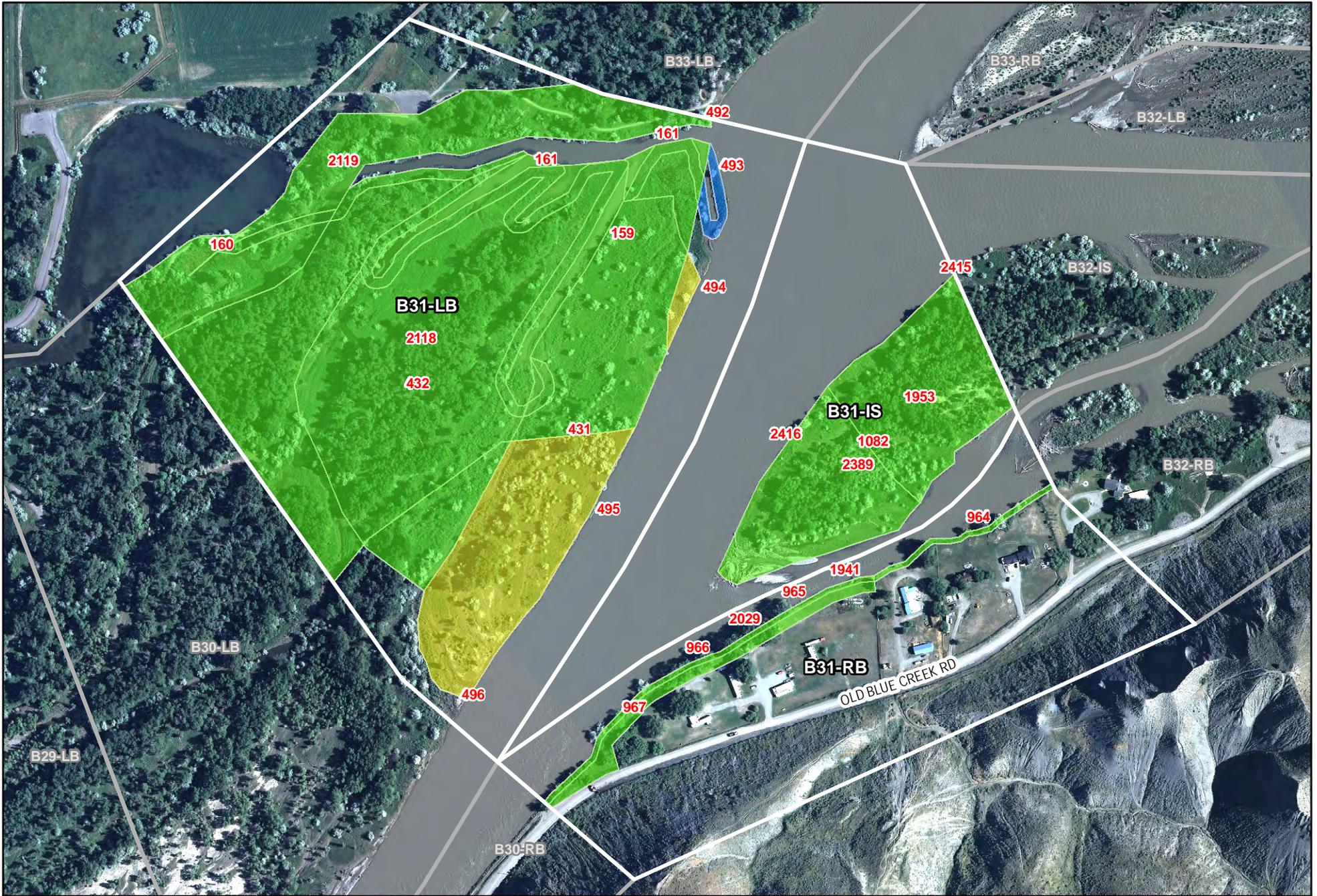
	XOM	EPA	MDEQ
Surface Water			
Drinking Water			
Irrigation			
Soil			
Sediment			
Product			
River Soil			
Oiled Debris			
Oiled River Soil			

SCAT B31



Figure 4 - Maximum SCAT Observations For SCAT Area:





	9999 Oiling Zone ID	Light Oiling
	Heavy Oiling	Very Light Oiling
	Moderate Oiling	No Oil Observed

Figure 5 - Final SCAT Observations
For SCAT Area: B31



Appendix A

Sample Detection Summary



Detections in Samples Collected in SCAT Area B31

Printed 9/13/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
SPSO140D01_071611	16-Jul-11	Field	Soil_Surface	MADEP EPH	Total Extractable Hydrocarbons	Y	48.6	200		mg/kg	no



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/IG/S

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>B31</u>	Left Bank / <u>Right Bank</u> / Island	<u>19 / 07 / 11</u>	hrs to _____ hrs	low - mean <u>bankfull</u> - overbank
Operations Division: <u>B</u>				<u>falling</u> steady - rising
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		<u>Sun</u> Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>35</u> deg C

2 SURVEY TEAM # 5	name	organization	contact phone number
	Bob Nailon	Cardno ENTRIX	713 817 2469
	John Beach	EPA	707 364 0491
	Ken Frazer	FWP	406 247 2961

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 598 m

Start GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ deg. _____ min. Datum: WGS 84

End GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ 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: P 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 X oxbow _____ flood plain valley X Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 90 m 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 70 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	216	1	1			X	X											Weg bank
B				X	160	1																" "
C					73	1	40			X	X											" "
D					149	1																" "

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				

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

OSR = Y OSC = unk SSC = unk

Treatment: Cut and remove oiled grass vegetation < 1" diameter. Wipe trees.

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

Sketch Yes / No Photos Yes / No (Roll # 5145 Frames 5155) Video Tape Yes / No (tape#)

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19 / 07 / 11	Time (24h): std / daylight 1016 hrs to 1017 hrs	Water Level low - mean <u>bankfull</u> - overbank falling steady - rising
Segment/Reach ID: <u>B31 Island</u> Left Bank / Right Bank / Island		Operations Division: B		
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		<u>(Sun)</u> Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>35</u> deg C

2 SURVEY TEAM # 5	name	organization	contact phone number
	Bob Nailon	Cardno ENTRIX	713 817 2469
	John Beach	EPA	707 364 0491
	Ken Frazer	FWP	406 247 2961

3 SEGMENT Total Segment/Reach Length 857 ~~857 399~~ m Segment/Reach Length Surveyed 446 m

Start GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ deg. _____ min. Datum: WGS 84

End GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ 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 (P) 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: _____

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 _____ m 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	
<u>AE</u>				X	150		1				P		X									veg bank
<u>BF</u>				X	296															X		veg bank

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

OSR = y OSC = unk SSC = unk

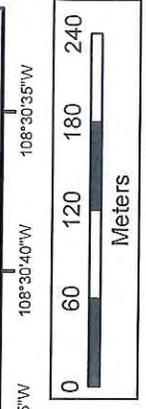
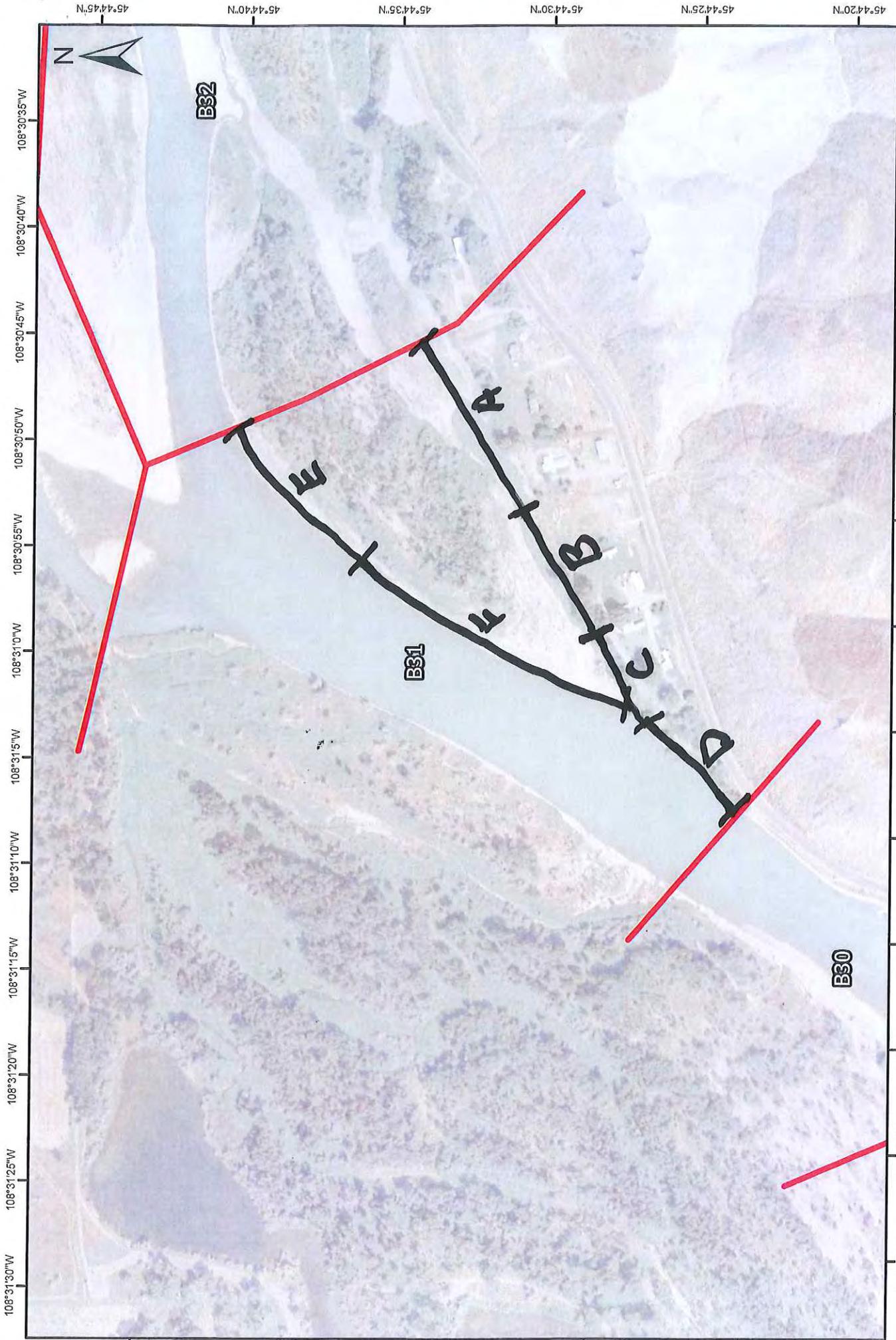
NO ISLAND

B31 LB, RB

Moved to B31 IS (Zones E + F) 2415 + 2416

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

Sketch Yes/No Photos Yes/No (Roll # 5140 Frames 5142) Video Tape Yes/No (tape#)



COMMENTS:

DATE:
TEAM:

B31 -
(L/R/I)??

108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W 108°30'50"W 108°30'45"W 108°30'40"W 108°30'35"W

45°44'20"N 45°44'25"N 45°44'30"N 45°44'35"N 45°44'40"N 45°44'45"N

B32

B31

B30

A

B

C

D

E



RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 12/07/2011	Time (24h): std / daylight 1343 hrs to 1441 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: B31 <u>Left Bank</u> / Right Bank/Island		Operations Division: A		
Survey by: <u>Foot</u> / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>27</u> deg C
2 SURVEY TEAM # 3	name	organization	contact phone number	
	Richard Marty	Polaris	208-360-0733 <i>Richard Marty</i>	
	Bruce Kvam <i>BSL</i>	Polaris	206-943-6904	
	Kim Dickerson <i>KD, KDN</i>	US Fish and Wildlife	307-631-2031 <i>Kim Dickerson</i>	
	Trevor Selch	Montana Fish and Game	406-444-5646	
	Travis Olson	US Coast Guard	608-566-9044 <i>Travis Olson</i>	

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 1880 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: P** _____ 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 _____ m canyon _____ manmade _____ meander P confined or leveed _____ Substrate Type: Mud

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 177 m 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 Existing trails can be used locked gate

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	300	0.25	1			X			X									Veg Mud
B				x	30	0.25	<1		X							X						Veg
C				x	1550	10																

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					
NONE																		

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

Oiling was found on stems of shrubs along one actively flowing channel. Oiling was approximately 0.8 m above water or 1.2 up the shrubs.

The oil coat on the shrubs is readily transferrable but not very abundant. The oiled vegetation should be pruned and collected.

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (tape# _____)

DB/E/sc

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 12/07/2011	Time (24h): std / daylight 1343 hrs to 1441 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising																		
Segment/Reach ID: B31 Left Bank / Right Bank/Island		Operations Division: A																				
Survey by: Foot / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 27 deg C																		
2 SURVEY TEAM # 3	name	organization	contact phone number																			
Richard Marty		Polaris	208-360-0733																			
Bruce Kvam		Polaris	206-943-6904																			
Kim Dickerson		US Fish and Wildlife	307-631-2031																			
Trevor Selch		Montana Fish and Game	406-444-5646																			
Travis Olson		US Coast Guard	608-566-9044																			
3 SEGMENT	Total Segment/Reach Length	m	Segment/Reach Length Surveyed	1880 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	Vegetated Bank: P Wooded Upland:																			
Sediment Bank: Clay/Mud Sand Mixed Pebble/Cobble Boulder	Peat/Organic	If snow and ice use Winter River SOS																				
Sediment Flat: Clay/Mud Sand Mixed/Coarse	Other:	complete for primary																				
4B RIVER VALLEY CHARACTER	select as appropriate			Substrate Type: Mud																		
Cliff or Bluff: Est Height m	canyon manmade meander P	confined or leveed	Forested / Vegetated / Bare																			
Sloped: (>5°)(15°)(30°)	straight braided oxbow	flood plain valley																				
4C RIVER CHANNEL CHARACTER	circle or select as appropriate																					
est. width: <1m 1-10m 10-100m >100m 177 m	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 Existing trails can be used locked gate																					
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		300	0.25	1			X			X				X					Veg
B			X		30	0.25	<1		X											X		Mud
C			X		1550																	Veg
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									
NONE																						
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations																						
Oiling was found on stems of shrubs along one actively flowing channel. Oiling was approximately 0.8 m above water or 1.2 up the shrubs.																						
The oil coat on the shrubs is readily transferrable but not very abundant. The oiled vegetation should be pruned and collected.																						
(for ALL sub-segments record: sub-segment ID, length, length surveyed, end GPS start/end fixes)																						
Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (tape# _____)																						

159
160
161



7/12/2011 8 am
7/12/2011 3 pm
7/2011

Image © 2011 GeoEye
© 2011 Google
© 2011 Europa Technologies
lat 45.743804° lon -108.520395° elev 3138 ft

Google

Eye alt 7140 ft

Imagery Date: 8/5/2009 1996

D B/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 17 1012 hrs to 1020 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B31 <u>Left Bank</u> / Right Bank / Island				
Operations Division: B				
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / <u>Windy</u> / Calm	Air Temp +/- <u>31</u> deg C	

2 SURVEY TEAM # 1	name	organization	contact phone number
Pete Lee	<u>PL</u>	Polaris	
Larry Alheim	<u>LA</u>	MTDEQ	
Andy Johnson	<u>AJ</u>	USCG	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 654 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 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 complete for primary

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

Sloped: >5°(15°)(30°) straight P braided S 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 130m 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 / 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 100 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

492
493
494
495
496

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				X	33	1															X	Grass, trees
B				X	71	1	100			X	X		X									Grass, trees
C				X	231	1															X	Grass, trees
D				X	290	1	100			X	X		X									Grass, trees, debris
E				X	29	1															X	Grass, trees, debris

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

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

Oil band heights: Zone B - 60cm

Treatment Recommendations:
Zones A, C, E: No oil observed; no treatment required.
Zones B, D: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.

*Refer to current approved treatment methods #1 (Cutting of Vegetation), #2 (Dead Vegetation and Small Debris), #3 (Large Woody Debris), #6 (Sorbent Use), # (Unconsolidated Sediments)



©2010 Google

Eye alt. 6729 ft

Image © 2011 GeoEye

45°44'34.53" N 108°31'10.28" W elev. 3138 ft

Imagery Date: 8/5/2009

DB 16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B31 Left Bank / Right Bank / Island Date (dd/mm/yy) 21/07/11 Time (24h): std / daylight 1323 hrs to 1415 hrs Water Level falling steady - rising

Operations Division: B Survey by: Foot / ATV / Boat / Helicopter / Overlook / Sun Clouds / Fog / Rain / Snow / Windy / Calm Air Temp +/- 28 deg C

2 SURVEY TEAM # 2

name	organization	contact phone number
<u>Chuck Pass</u>	<u>Coastal ENMEX</u>	<u>813-927-1194</u>
<u>Ed Reilly</u>	<u>MDEQ</u>	<u>406-461-3786</u>
<u>Patrick Krueke</u>	<u>USCG</u>	<u>415-320-5248</u>

3 SEGMENT Total Segment/Reach Length 625 m Segment/Reach Length Surveyed 400 m

Start GPS: LATITUDE 45 deg. 44.472 min. LONGITUDE 108 deg. 31.201 min. Datum: NAD83

End GPS: LATITUDE 45 deg. 44.695 min. LONGITUDE 108 deg. 31.109 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: X 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 _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: Est / lt

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 180 m 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 40 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	400	120	5			P	S		✓									Sand/Silt
B				X	400	200	1			S	P		✓									Sand/Silt

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

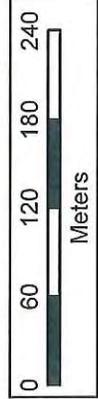
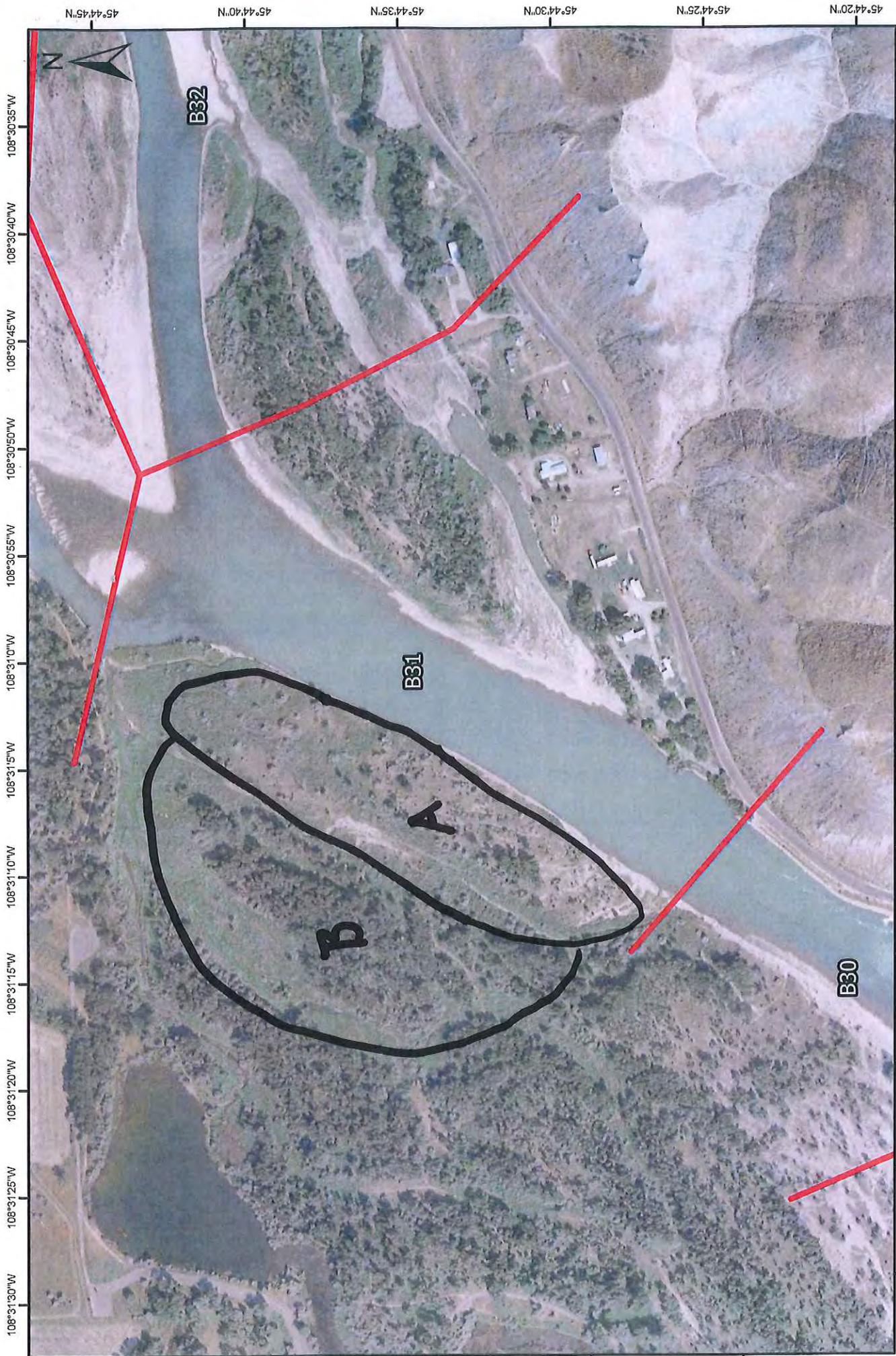
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

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

Zones A+B both have staked out coastal debris and veg. Debris needs to be hoisted and removed, cut veg needs to be cut out or trimmed and removed.

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (tape# _____)



COMMENTS:

DATE:
TEAM:

B31 -
(L/R/I)??

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>B31</u> Left Bank / Right Bank / <u>Island</u>		<u>19/07/11</u>	<u>1016</u> hrs to <u>1017</u> hrs	low - mean - bankfull - overbank
Operations Division:				<u>falling</u> - steady - rising
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- _____ deg C

2 SURVEY TEAM # <u>5</u>	Name	Organization	Signature
	<u>Bob Nailon</u>	<u>Cardno ENTRIX</u>	
	<u>John Beach</u>	<u>EPA</u>	
	<u>Ken Frazer</u>	<u>FWP</u>	

3 SEGMENT Total Segment/Reach Length 857 m Segment/Reach Length Surveyed 446 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: (P) 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 X oxbow _____ flood plain valley X 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 70 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	GT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				X	150		1															reg bank
B				X	296																	X

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

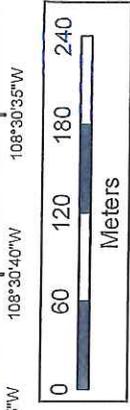
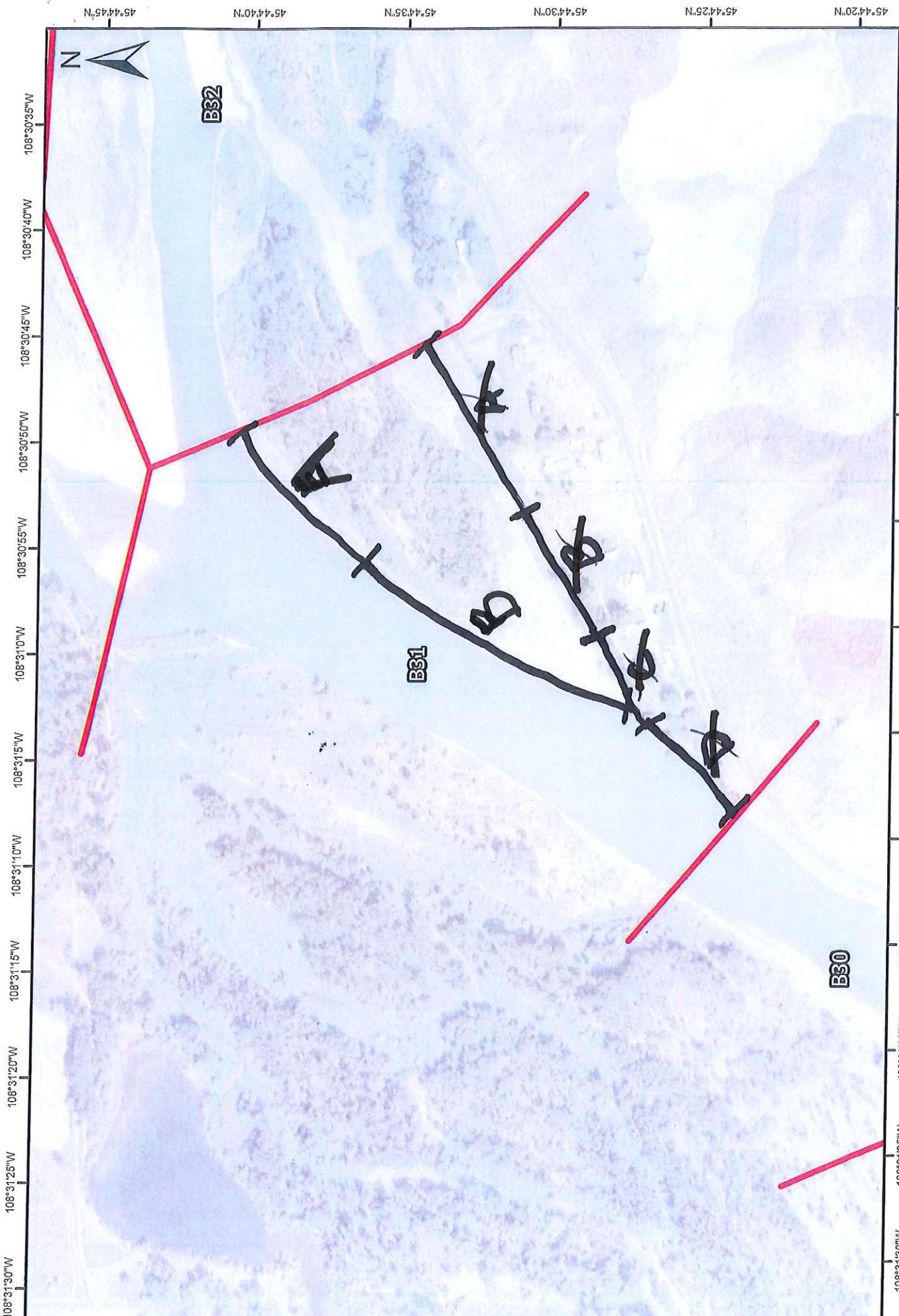
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER								WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR	NO					

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

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

*Removed from RB
SCAT from 19 JUL 2011.
AA 19 Oct 2011

Sketch (Yes) / No Photos (Yes) / No Frames 5142 Photographer _____



COMMENTS:

DATE:
TEAM:

331 -
(L/R/I)??

DB/G/S

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>B-31</u> Left Bank / Right Bank (<u>Island</u>)		<u>28/07/11</u>	<u>0840</u> hrs to <u>0918</u> hrs	low - mean (<u>bankfull</u>) - overbank
Operations Division:				<u>falling</u> steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>25</u> deg C

2 SURVEY TEAM #		Name <u>SAK</u> Organization <u>Cardno Centre</u> Signature <u>Steve Kennedy</u>
Steve Kennedy		<u>MT RWIP</u> <u>US EPA</u>
Courtney Tyree		
Gary Riley		

3 SEGMENT	Total Segment/Reach Length <u>400</u> m	Segment/Reach Length Surveyed <u>400</u> m
Start GPS: LATITUDE <u>N45°44.564</u> deg. _____ min.	LONGITUDE <u>W108°30.972</u> deg. _____ min.	Datum: <u>WGS 84</u>
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 <u>S</u> Sand _____ Mixed _____ Pebble/Cobble <u>P</u> Boulder _____ Peat/Organic _____	Vegetated Bank: _____		Wooded Upland: _____
Sediment Flat: Clay/Mud <u>S</u> Sand _____ Mixed/Coarse <u>P</u>	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: <u>125</u>
Sloped: <u>10</u> (>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 <u>>100m</u> 160m	est. water depth: <1m 1-3m <u>3-10m</u> >10m _____ m		
shoal(s) present <u>(Y)</u> N	point bar present <u>(Y)</u> N	bar-shoal substrate: silt (<u>sand / gravel / cobble</u>) boulder / bedrock / debris	
seasonal water level: low / mean <u>bank full</u> / overbank flow	est. change over next 7 days: <u>falling</u> - same - rising		

5 OPERATIONAL FEATURES		Suitable backshore staging Y / N	Access: Direct from backshore Y / N Alongshore from next segment Y / N
Debris: Y <u>(N)</u> oiled Y <u>(N)</u> amount _____ bags or _____ trucks	access restrictions <u>none</u>		
Oiled trees/shrubs Y / <u>(N)</u>	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

1082

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>P</u>	<u>S</u>	<u>400</u>	<u>25</u>	<u><5</u>			<u>P</u>	<u>S</u>											

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

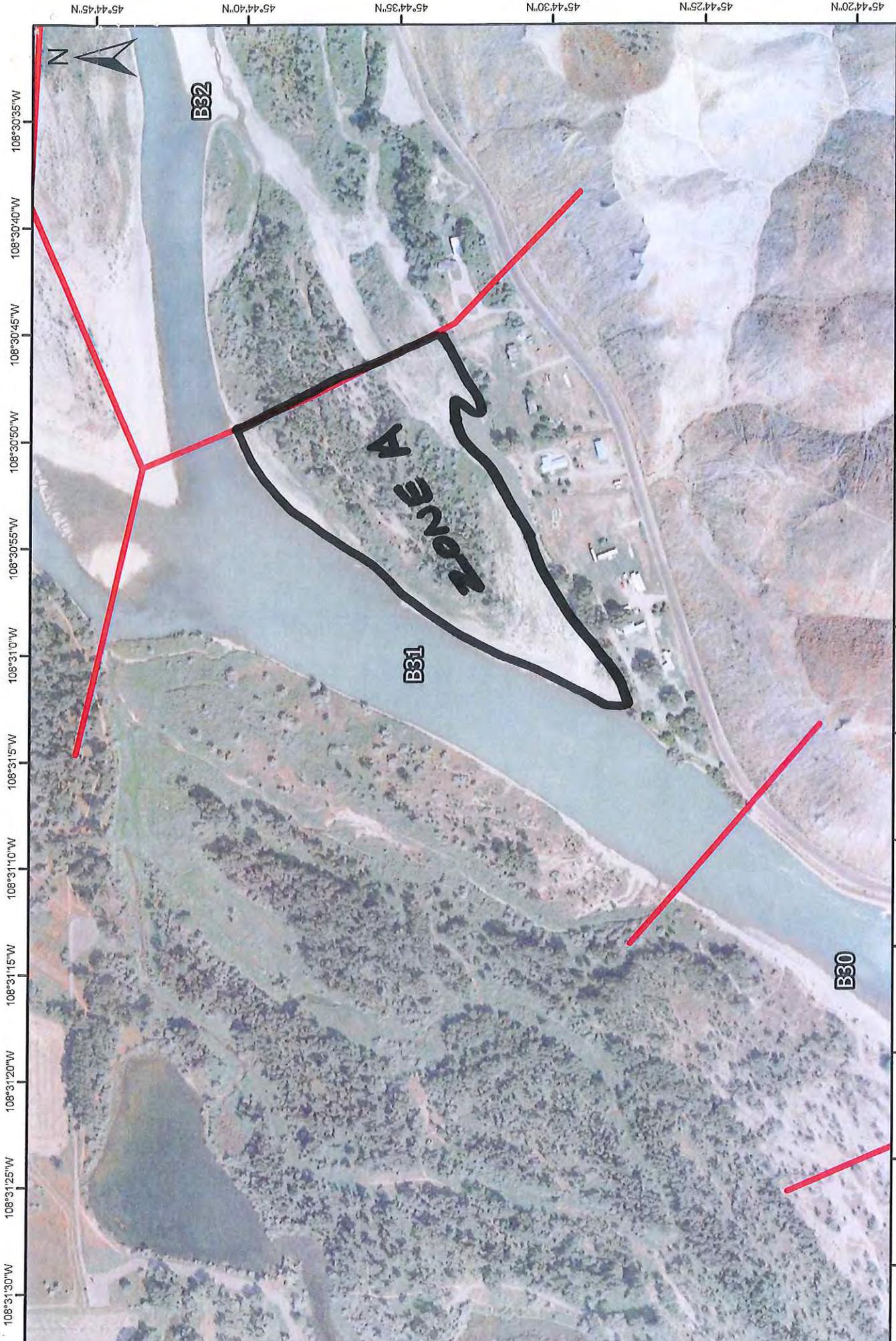
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER							WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR	NO					

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

Seg. 31, Zone A; v. sporadic w/ primary stain near shore & primary coat inland, mainly impact to grasses w/ trace of small debris piles, on hotspot flagged & photo @ Seg 31/32 line. * Remove impacted debris (hotspot) & coated grass

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



B31 - (L/R/I)??

DATE: _____ TEAM: _____

COMMENTS:

0 60 120 180 240
Meters

108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W 108°30'50"W 108°30'45"W 108°30'40"W 108°30'35"W

45°44'20"N 45°44'25"N 45°44'30"N 45°44'35"N 45°44'40"N 45°44'45"N

108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W 108°30'50"W 108°30'45"W 108°30'40"W 108°30'35"W



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

DB/G

R

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 28/08/11	Time (24h): std / daylight 1053 hrs to 1120 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: B31 Left Bank / <u>Right Bank</u> / Island				
Operations Division: B				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>35</u> deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
Josh Hofkes		Cardno ENTRIX	
Merlo Gauvreau		Polaris	
Stephen Ball		EPA	
Donnie McCurry		DEQ	
Lance Richman		EPA	

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 590 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 S Pebble/Cobble S Boulder _____ Peat/Organic P 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: _____

Sloped: _____ (>5°)(15°)(30°) straight _____ braided S oxbow _____ flood plain valley P 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 / 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
1991 A			<u>X</u>		590	5	4			<u>X</u>	<u>⊗</u>						<u>X</u>				<u>MLX</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				

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

Hot shot ops: Matt DeLong
 => Removed 1 bag oil veg/woody debris
 A: N.F.T.

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

DB16

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>B.31</u>	Left Bank (Right Bank) Island	<u>01/09/11</u>	<u>1235</u> hrs to <u>1325</u> hrs	low (mean) bankfull - overbank
Operations Division: <u>B</u>				(falling) steady - rising
Survey by: (Foot) ATV / Boat / Helicopter / Overlook /	Sun / (Clouds) Fog / Rain / Snow / Windy / (Calm)			Air Temp +/- <u>20</u> deg C

2 SURVEY TEAM # <u>6</u>	Name	Organization	Signature
	<u>Nathan Hammond</u>	<u>Cardno Entrie</u>	<u>Nathan Hammond</u>
	<u>Austin West</u>	<u>USCG</u>	<u>Austin West</u>
	<u>Jay Watson</u>	<u>FWP</u>	<u>Jay Watson</u>

3 SEGMENT Total Segment/Reach Length 580 m Segment/Reach Length Surveyed 390 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) Rip Rap Wetland: Swamp _____ Bog/Fen _____ Marsh _____

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

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 (N) Alongshore from next segment Y (N)

Debris Y (N) oiled Y (N) amount 1 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	390	15	<1			S	P						X					Key, Debris

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 - Hot shot crew utilized ATM1, ATM2, ATM9 - No Further Treatment.

ATM 7 will suffice for hard to reach sections of zone.

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

9/1/2011 10:23 am
9/1/2011 5:55 pm
9/1/2011

FOR
EMERGENCY
A-100
TERRITORY

004

082

003

B31-RB

B31-IS

Old Ernie Creek Rd

Tam
B31 RB
9/1/11

© 2011 Europa Technologies
Image © 2011 GeoEye
© 2011 Google

© 2010

1996

45°44'28.68" N 108°30'57.14" W elev 3142 ft

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy) 05/09/11	Time (24h): std / daylight 1237 hrs to 1600 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: B31 <u>Left Bank</u> / Right Bank / Island				
Operations Division: B				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- 28 deg C

2 SURVEY TEAM # 3	Name	Organization	Signature
Adam Bausch		Cardno Entrix	<i>[Signature]</i>
Mike Shannon		USCG	<i>[Signature]</i>
Jay Watson		FWP	<i>[Signature]</i>

3 SEGMENT Total Segment/Reach Length 687 m Segment/Reach Length Surveyed 331 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: 5 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: _____

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1 m 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 point bar present 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 Access: Direct from backshore Alongshore from next segment

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

Oiled trees/shrubs River Current strong Other Features: OPS Team CleanUp in progress

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)	
					Length	Width	Distrib.	OIL THICKNESS					OIL CHARACTER								
	MS	LB	UB	OB	m	m	%	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO
A				<input checked="" type="checkbox"/>	578	394	<			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>				
B				<input checked="" type="checkbox"/>	153	129	<			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>				

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)
							SAP	OP	PP	OR	OF	TR	NO				

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

Overbank Survey Required Overbank Survey Completed Shoreline Survey Completed

Zone A - Light Coat Observed some small debris piles. Ops came in behind and cleaned up
NFT

Zone B - Light Coat on vegetation. Ops crew cleaned up behind
NFT

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



DB/16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (30/Aug/11)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B31 Left Bank / Right Bank / Island				low - <u>mean</u> - bankfull - overbank
Operations Division: B			930 hrs to 1045 hrs	falling - steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 85F

2 SURVEY TEAM # 2	Name	Organization	Signature
David Eric Harlow		Cardno ENTRIX	<i>David Harlow</i>
Pete Lee		Polaris	<i>Pete Lee</i>
Stephen Ball		EPA	<i>Stephen Ball</i>
Larry Alheim		DEQ	<i>Larry Alheim</i>

3 SEGMENT Total Segment/Reach Length 323 m Segment/Reach Length Surveyed 140 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 x _____ Mixed x _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: x 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 x confined or leveed _____ Substrate Type: Sand/silt

Sloped: _____ (>5°)(15°)(30°) straight _____ braided _____ oxbow _____ flood plain valley x 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 / 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	140	115	<1			s	p						x					Forests, shrub, sand, debris

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

RESCAT- Ops had finished treating unit. We did not enter restricted private property on upstream end of unit. Visited with Hotshot Team.

Zone A: Scattered small patches of oiled shrubs and debris. 1 bag of material collected. NFT.

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



8/30/11 Team Z
B31-Island
RESCAT

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>B31</u>	Left Bank / Right Bank / Island	<u>25/09/11</u>	<u>1000</u> hrs to <u>1200</u> hrs	low - <u>mean</u> bankfull - overbank
Operations Division: <u>B</u>				<u>falling</u> steady - rising
Survey by: <u>Foot</u> / <u>ATV</u> / <u>Boat</u> / Helicopter / Overlook /		<u>Sun</u> Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>28</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Todd Farrar</u>	<u>Polaris</u>	<u>Todd Farrar</u>
	<u>Sheila McAtee</u>	<u>DNRC</u>	<u>Sheila McAtee</u>

3 SEGMENT Total Segment/Reach Length 390 m Segment/Reach Length Surveyed 390 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 S Boulder _____ Peat/Organic _____ Vegetated Bank: P 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: Silt

Sloped: (>5°)(15°)(30°) straight _____ braided P 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:

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

2309

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	390	150	<1			S	P						P					debris

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 ~~oil~~ stain & coating so mainly debris. Hot shot crew removed or treated ~~debr~~ oiled material. No further Treatment Required (NFT)

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



9/25/2011 10:09 am 9/25/2011 4:24 pm 4 pm

TEAM 7
 Sep 12 2011
 B-311SL

B32-IS

B31-IS

B31-RB

B31-LB

B30-LB

Zone
 NFT

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 Image © 2011 GeoEye

© 2011 Europa Technologies

45°44'33.81" N 108°30'58.29" W elev 3137 ft

8/5/2009 1996

©2010 Google

Eye alt



Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B31 RB

Date of Survey 28/08/2011

Dates of Initial SCAT Assessments _____

(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

42

Segment has been treated by Operations or an Operations Hotshot Team

YES

NO

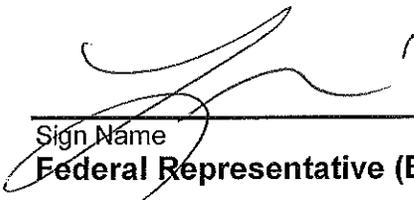
Segment Assessment Complete¹

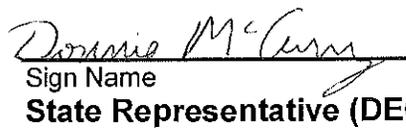
Partial Segment Assessment

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).

 Lance Richman 8/28/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

 Donnie McCurry DEQ 28/08/2011
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

 Herlo GAVUREAU, POLARIS 28/08/2011
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.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B31 RB Date of Survey 9/1/11

Dates of Initial SCAT Assessments 19 JUL 11 (FL)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 42

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).

[Signature] AUSTIN WESS USEG 9/1/11
Sign Name Print Name/ Affiliation Date

Federal Representative (EPA/USCG)

[Signature] JAY WATSON FWP 9/1/11
Sign Name Print Name/ Affiliation Date

State Representative (DEQ/FWP)

[Signature] NATHAN HAMMOND/CARDNO ENTREX 9/1/11
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 B31 LB Date of Survey Sept 5, 2011

Dates of Initial SCAT Assessments 12 JUL 11 (EC)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 38-CTR

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

Segment Assessment Complete¹

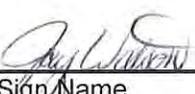
Partial Segment Assessment

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).


Sign Name Michael Shannon / USCG Print Name/ Affiliation 9/6/11 Date
Federal Representative (EPA/USCG)


Sign Name JAY WATSON FWP Print Name/ Affiliation 9/5/11 Date
State Representative (DEQ/FWP)


Sign Name Adam Bausch Cordoba Entrix Print Name/ Affiliation 9/5/2011 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 B31 IS Date of Survey 8/30/11

Dates of Initial SCAT Assessments _____
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 27

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).

A. L. BU Stephen Ball EPA 8/30/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

L. P. Alheim Jr Larry Alheim Jr MT DEQ 8/30/11
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

David Harlow David Harlow Cardno ENTRIX 8/30/11
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 B31 Island Date of Survey Sept. 25, 2011

Dates of Initial SCAT Assessments

28 Jul 2011 (B)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

27

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)

Sheila McAtee

Sheila McAtee

9/25/2011

Sign Name

Print Name/ Affiliation

Date

State Representative (DEQ/FWP)

Todd Farrar

Todd Farrar / Polaris

9/25/11

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.