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ExxonMobil Pipeline Company

SCAT Area Transition Report for B26

Silvertip Pipeline Incident
Laurel, Montana

October 27, 2011

SCAT Area Transition Report for B26

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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October 27, 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.

ARCADIS

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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 B26, 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 B26.

1.1 Land Ownership and Access Issues

Figure 1 provides an aerial map of SCAT Area B26, 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 of area surveyed in this area is 23.1. There were no access issues associated with the left bank and island; however, there were access issues associated with a small portion of the right bank in 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 regular inspections of Area B26. No oiled wildlife was observed or recovered. No Wildlife Priority Cleanup Areas were identified. No active migratory bird nests were identified in Area B26.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B26. 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 B26 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Area	Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
B26	CTEH	BIMT0816SO516*	8/16/2011	Soil_River	SO-B26	45.737409	-108.538444
B26	CTEH	BIMT0816SO515*	8/16/2011	Soil_River	SO-B26	45.737409	-108.538444
B26	CTEH	BIMT0816SO514*	8/16/2011	Soil_River	SO-B26	45.737409	-108.538444
B26	CTEH	BIMT0816SO513*	8/16/2011	Soil_River	SO-B26	45.737409	-108.538444
B26	CTEH	BIMT0816SO512	8/16/2011	Soil_River	SO-B26	45.737409	-108.538444
B26	CTEH	BIMT0725SW613	7/25/2011	Water_Surface	B28	45.738300	-108.534800
B26	CTEH	BIMT0714IW102	7/14/2011	Water_Irrigation	BIMT_366_IW102	45.732507	-108.532729

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, one exceedence is shown for vanadium.

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 B26 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B26.

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. 22, CTR No. 35, and CTR No. 37).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B26 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

SCAT Operations liaisons performed an inspection of the remediated areas of SCAT Area B26 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the left bank within Area B26, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

A Post-Inspection Survey Transmittal (POST) was conducted for the island within Area B26, and is included in Appendix D.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B26 following completion of oil removal activities. The SCAT team performed final surveys of the left bank, right bank, and island within SCAT Area B26 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 left bank, right bank, and island within Area B26, no further treatment is recommended for the small portion of the right bank with access granted, the left bank, and a portion of the island; natural attenuation is recommended for the remainder of the island. Subsequent to final SCAT forms being signed, access was granted to the remainder of the right bank and treatment was performed to the satisfaction of the landowner, as outlined in the CTR addendum provided in Appendix G. The SCAT Segment Sign-Off Forms are included as Appendix F.

2. Transition Sign-Off Form

SCAT Area Transition Report for B26

Prepared for:

Unified Command

_____

Date

_____

Unified Command – RP

SCAT Area Transition Report for B26

Prepared for:

Unified Command

_____

Date

_____

Unified Command – FOSC

SCAT Area Transition Report for B26

Prepared for:

Unified Command

_____

Date

_____

Unified Command – MDEQ

Silvertip Pipeline Incident
Area Transition Report Map - Parcels
Segment - B26

9/27/2011

1:6,000

0 600 1,200 2,400 Feet

Figure 1

Date: 9/27/2011 Time: 12:54:10 PM

Path: P:\GIS\MXD's\Area_Transition_Figures\A1-Fig1-Parcels.mxd

Silvertip Pipeline Incident
SCAT Area Transition Report Map
Area - B26

ExxonMobil Pipeline

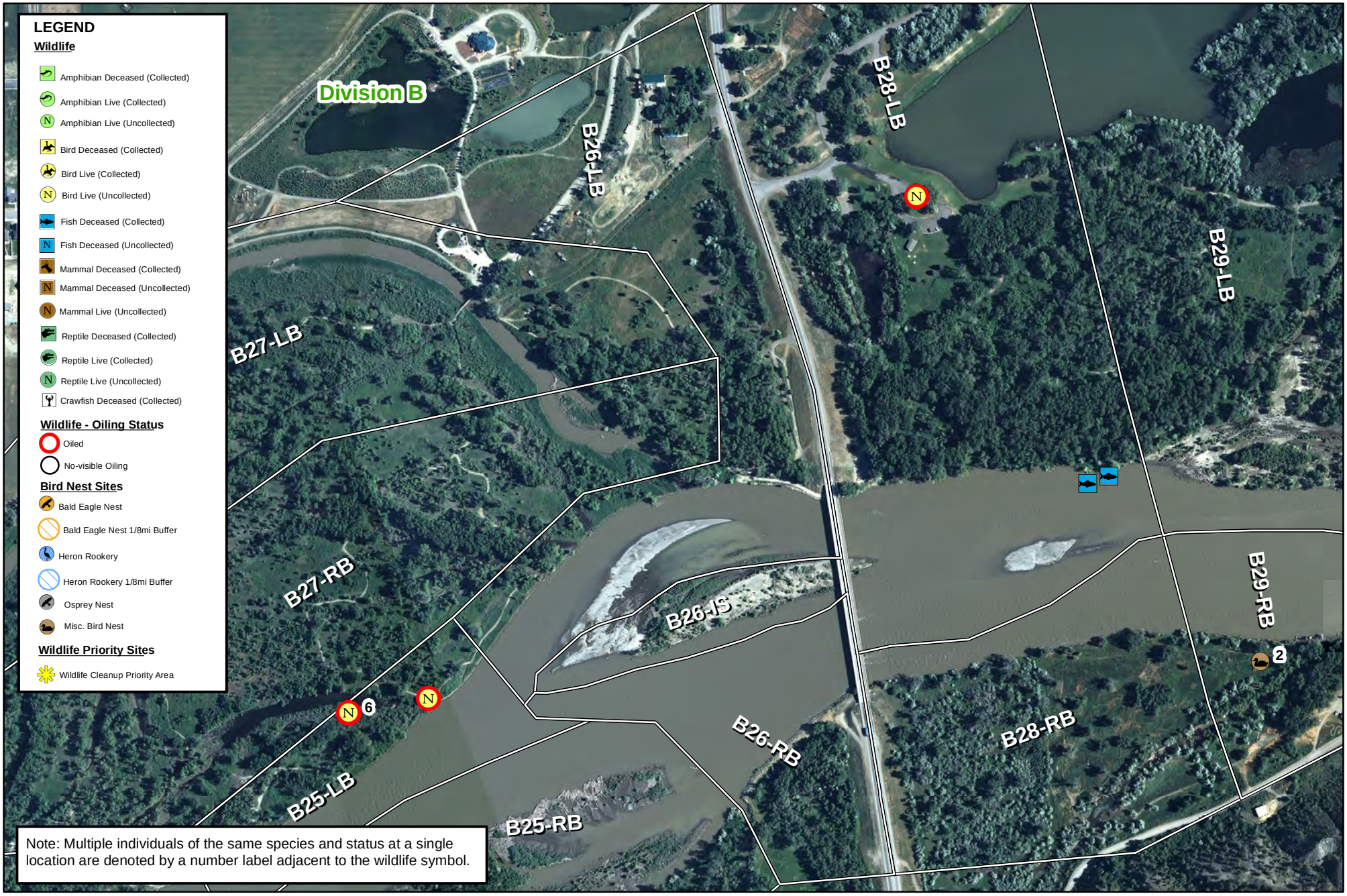
N

1:6,000

9/28/2011

The Response Group

Path: P:\GIS\MXD's\Wildlife\ATR Maps - Figure 2\ATR Map_Div.B_Fig2_09272011.mxd

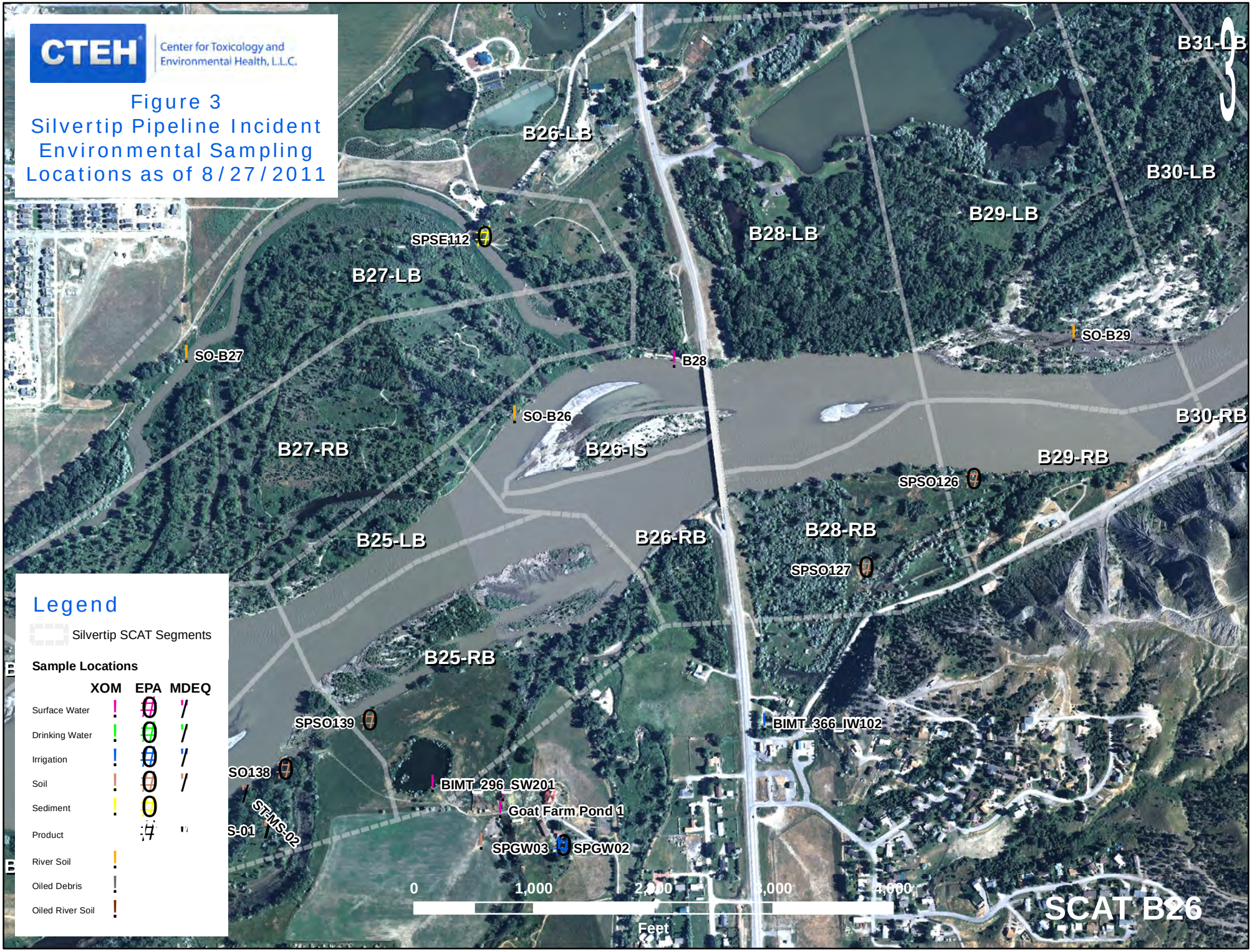


Note: Multiple individuals of the same species and status at a single location are denoted by a number label adjacent to the wildlife symbol.

0 625 1,250 2,500 Feet

Figure 2
Wildlife Resources

Date: 9/28/2011 Time: 11:37:09 AM


CTEH
Center for Toxicology and Environmental Health, L.L.C.
Figure 3
Silvertip Pipeline Incident
Environmental Sampling
Locations as of 8/27/2011
B31-LB
B30-LB
B29-LB
B28-LB
B26-LB
B27-LB
SPSE112
SO-B29
SO-B27
B28
SO-B26
B30-RB
B27-RB
B26-IS
B29-RB
SPSO126
B25-LB
B26-RB
B28-RB
SPSO127
B25-RB
SPSO139
BIMT_366_IW102
SO138
BIMT_296_SW201
Goat Farm Pond 1
ST-MS-02
S-01
SPGW03
SPGW02
0
1,000
2,000
3,000
4,000
Feet
SCAT B26
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

400 0 400 800 Feet

Figure 4 - Maximum SCAT Observations For SCAT Area: B26

POLARIS APPLIED SCIENCES, INC.

Aerial Photography Dated July 20, 2011

O:\GIS\SCAT Mapping\Maps\Area Transition Reports MXD\ATR Fig 4 - Max_SCAT_Observations_DataPages.mxd

Printed: 10/19/2011 8:45:11 AM

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

400 0 400 800 Feet

Figure 5 - Final SCAT Observations For SCAT Area: B26

POLARIS APPLIED SCIENCES, INC.

Aerial Photography Dated July 20, 2011

O:\GIS\SCAT Mapping\Maps\Area Transition Reports MXD\ATR Fig 5 - Final_SCAT_Observations_DataPages.mxd

Printed: 10/19/2011 9:00:19 AM

Appendix A

Sample Detections Summary

Detections in Samples Collected in SCAT Area B26

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
BIMT0714IW102	07/14/2011	Field	Water_Irrigation	MADEP VPH	Benzene	Y	1	5		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Arsenic	Y	8.5	10		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Barium	Y	43.6	1000		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Calcium	Y	17400	NA		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Chromium	Y	1.7	100		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Lead	Y	1.2	15		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Magnesium	Y	5740	NA		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Nickel	Y	2.6	100		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Potassium	Y	2010	NA		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Sodium	Y	9770	NA		ug/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	SM 2540D	Total Suspended Solids	Y	99.7	NA		mg/L	no
BIMT0725SW613	07/25/2011	Field	Water_Surface	EPA 6020	Vanadium	Y	3.5	180		ug/L	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Arsenic	Y	7.8	40		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Barium	Y	133	820		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Cadmium	Y	0.21	3.8		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Chromium	Y	19.7	280		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Lead	Y	17.2	400		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 9060	Mean Total Organic Carbon	Y	2650	NA		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Nickel	Y	14.8	150		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 9060	RSD%	Y	10.5	NA		%	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 9060	Total Organic Carbon	Y	2990	NA		mg/kg	no
BIMT0816SO512	08/16/2011	Field	Soil_River	EPA 6010	Vanadium	Y	**39.4**	39		mg/kg	YES

Appendix B

Initial SCAT Survey Forms
and Sketches

DB/G

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: B26 **Left Bank** / Right Bank / Island	19-Jul-2011	8	low - mean - **bankfull** - overbank
Operations Division: B		1026 hrs to 1028 hrs	**falling** - steady – rising
Survey by: Foot / ATV / **Boat** / Helicopter / Overlook / _____	**Sun** / Clouds / Fog / Rain / Snow / **Windy**/ Calm		Air Temp + / - **31** deg C

2 SURVEY TEAM # 1	name	organization	contact phone number
Pete Lee	PBL	Polaris	
Larry Alheim	LA	MTDEQ	
Andy Johnson	Andy Johnson	USCG	

3 SEGMENT *Total Segment/Reach Length* _____ *m* *Segment/Reach Length Surveyed* 488 *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 S (type) Riprap ***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 25m **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 10 bags or _____trucks access restrictions

Oiled trees/shrubs Y / N River Current strong Y / N Other Features: **Hwy. 416 is east segment boundary**

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	
478 A				X	40	1														X	Grass, trees, debris
479 B				X	35	1	100			X	X		X								Grass, trees, debris
480 C				X	90	1														X	Grass, trees, debris
481 D				X	35	1	100			X	X		X								Grass, trees, debris
482 E				X	288	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	OILED ZONE	SUBSURFACE OIL CHARACTER							WATER TABLE	SHEEN COLOUR	CLEAN BELOW	SUBST. TYPE(S)
	MS	LB	UB	OB	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / 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

Oil band heights: Zone B – 40cm

Treatment Recommendations:

Zones A, C, E: No oil observed; no treatment required.

Zone 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)

Sketch Yes / No **Photos** Yes / No **Frames** 1172-1177 (Lee)

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: B2~~3~~6 Left Bank / Right Bank / Island	19-Jul-2011	6 9 1024 hrs to 1028 hrs	low - mean - bankfull - overbank falling - steady – rising
Operations Division: B			
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 31 deg C

2 SURVEY TEAM # 1	name	organization	contact phone number
	Pete Lee	Polaris	
	Larry Alheim	MTDEQ	
	Andy Johnson	USCG	
			488

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed ~~431~~ 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 S (type) Riprap | 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~~ ~~420m~~ 125 | 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 ~~20~~ bags or ____ trucks | access restrictions

Oiled trees/shrubs Y / N 10 River Current strong Y / N | Other Features: Hwy. 416 is east segment boundary

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 MS	LB	UB	OB	OIL COVER Length m	Width m	Distrib. %	OIL THICKNESS TO	CV	CT	ST	FL	OIL CHARACTER FR	MS	TB	PT	TC	SR	AP	NO	SUBST. TYPE(S)
A				X	~~112~~	1														X	Grass, trees, debris
B			35	X	~~205~~	1	100			X	X		X								Grass, trees, debris
C			90	X	~~150~~	1														X	Grass, trees, debris
D			~~35~~	X	35																
E				X	288																

40 OIL THICKNESS

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

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 – 40cm

, C, E

Treatment Recommendations:

Zone A: No oil observed; no treatment required.

Zone B: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.

Zone C: No oil observed; no treatment required.

, D

*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)

1172-1177

Sketch Yes / No Photos Yes / No Frames ~~1156~~-1163 (Lee)

E = 62 + 226

A
B
C
D
E
B26
Image © 2011 GeoEye
©2010 Google
Imagery Date: 8/5/2009
45°44'14.79" N 108°32'11.77" W elev 3141 ft
Eye alt 4773 ft

DP/615

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident Page 1 of 2

1 GENERAL INFORMATION	Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B26 **Left Bank** / Right Bank / Island	22/07/2011		low - mean - bankfull - **overbank**
Operations Division: B		0930 hrs to 10:00 hrs	**falling** - steady – rising
Survey by: (Foot) / ATV / Boat / Helicopter / Overlook / _____	(Sun) / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 29 deg C

2 SURVEY TEAM # 3	Name	Organization	Signature
	Jenni Nelson	Polaris	
	John Bauer	Polaris	
	Janice Wital (witul)	EPA	
	Earl Radonski	MFWP	

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 275 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:** 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 X confined or leveed _____ | Substrate Type: Silt/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 1–10 m 10–100 m >100m **125 m** **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 _____bags or _____trucks access restrictions: Area has many ponds, sloughs, standing water,

Oiled trees/shrubs **Y** / N River Current strong **Y** / N Other Features: areas of deep mud and wet unstable sand; thick veg

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	
529 A				X	125	40	0													X	VEG
530 B				X	150	40	<1			(X)	X		X				X				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	OILED ZONE	SUBSURFACE OIL CHARACTER							WATER TABLE	SHEEN COLOUR	CLEAN BELOW	SUBST. TYPE(S)
	MS	LB	UB	OB	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	
None																	

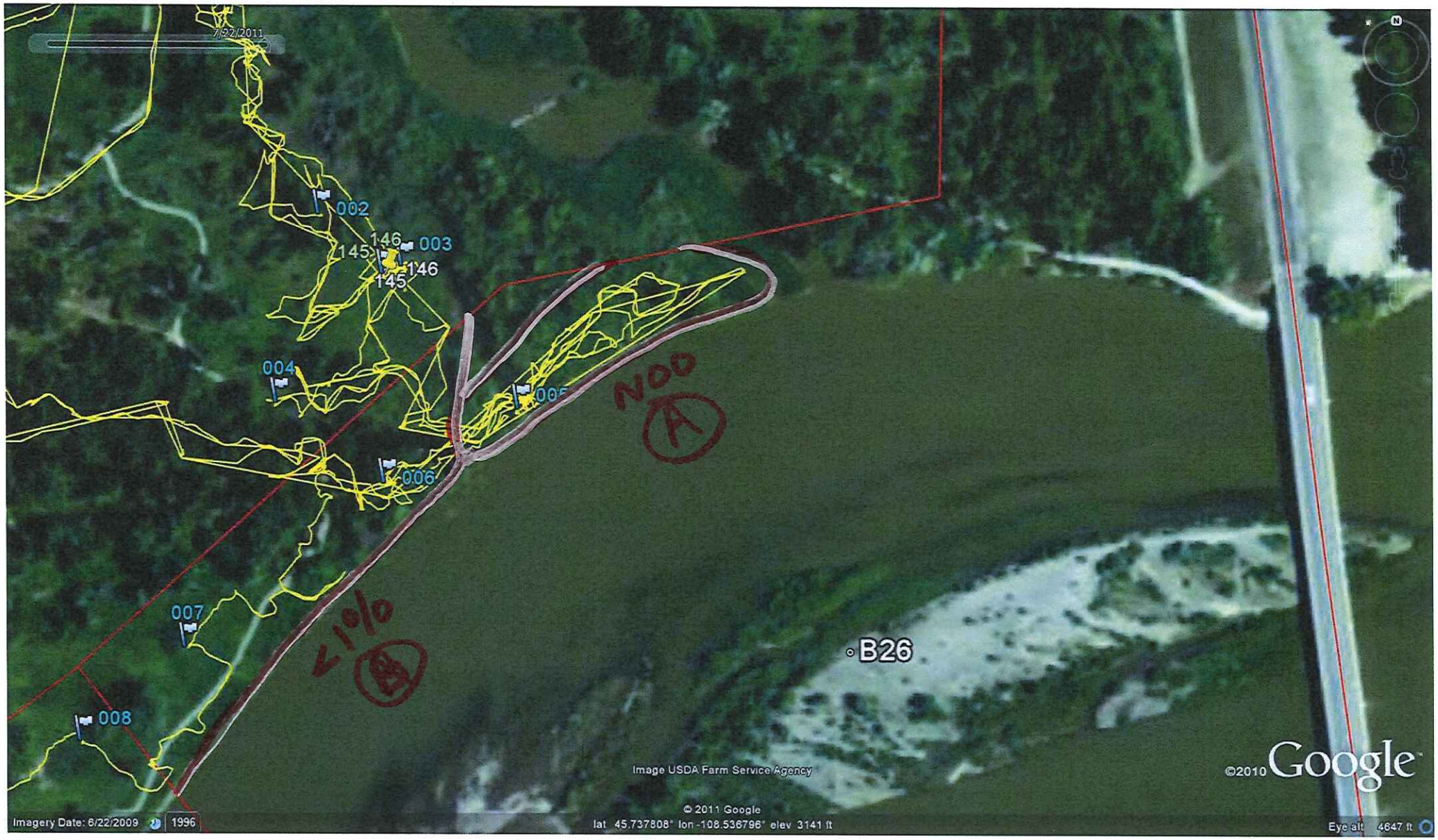
8 COMMENTS *ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations*

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

A: NO OIL OBSERVED, heavy brush primarily above flood level.
B. Intermittent trace oiling found throughout area. Primarily on grass, wood debris & brush.

Operations working in area

Sketch **Yes** / No Photos **Yes** / No Frames_____ Photographer J.Nelson, J. Bauer_____



B26L SCAT #3 22 July 2011

DB/G/S

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: B26 Left Bank / Right Bank / Island	19-Jul-2011	1024 hrs to 1026 hrs	low - mean - bankfull - overbank
Operations Division: B			falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 31 deg C

2 SURVEY TEAM # 1

name	organization	contact phone number
Pete Lee	Polaris	
Larry Alheim	MTDEQ	
Andy Johnson	USCG	
Bob Naylon	Cardno ENTRIX	
John Beach	USEPA	

3 SEGMENT Total Segment/Reach Length _____m · Segment/Reach Length Surveyed ~~363~~ 760m

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 95m | 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 20 bags or _____trucks | access restrictions

Oiled trees/shrubs (Y) / N River Current strong Y / N | Other Features: @ S. Billings Blvd.

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 MS	LB	UB	OB	OIL COVER Length m	Width m	Distrib. %	OIL THICKNESS TO	CV	CT	ST	FL	OIL CHARACTER FR	MS	TB	PT	TC	SR	AP	NO	SUBST. TYPE(S)
639 A				X	B130	1														X	Grass, trees, debris
640 B				X	56	1	100			X	(X)		X								"
641 C				X	177	1														X	"
642 D				X	397															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 MS	LB	UB	OB	MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER SAP	OP	PP	OR	OF	TR	NO	WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)

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:

Treatment Recommendations:

Zone A, C No oil observed; no treatment required.

Zone B: Cut & remove oil coated vegetation smaller than 1" diameter. Remove oil coated debris smaller than 4" 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)

Sketch Yes / No Photos (Yes) / No Frames 1171

Oiled ~~se~~ zone
included with
B-28

DB/6/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION

Segment/Reach ID: B-26 Left Bank / Right Bank / Island

Operations Division:

Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____

Date (dd/mm/yy): 29/07/11

Time (24h): std / daylight: 1145 hrs to 1221 hrs

Water Level: low - mean - bankfull - overbank; falling - steady – rising

Sun / Clouds / Fog / Rain / Snow / Windy / Calm

Air Temp + / - 27 deg C

2 SURVEY TEAM #_____

Name	Organization	Signature
SAK	Cardno Entrix	Steve Kennedy
Steve Kennedy	Cardno Entrix	Steve Kennedy
Gary Riley	US EPA	[illegible]
Mark Ewanic	MT DEQ	[illegible]

3 SEGMENT

Total Segment/Reach Length 425 m Segment/Reach Length Surveyed 425 m

Start GPS: LATITUDE 45° 44.227 deg. — min. LONGITUDE 108° 32.069 deg. — min. Datum: WGS84

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 S | Manmade: Solid ___ Permeable ___ (type) N/A | Wetland: Swamp ___ Bog/Fen ___ Marsh ___ N/A

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

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

4B RIVER VALLEY CHARACTER

select as appropriate

Cliff or Bluff: ___ Est Height 3 m | canyon ___ manmade ___ meander S confined or leveed ___

Sloped: 15 (>5°)(15°)(30°) | straight ___ braided P oxbow ___ flood plain valley ___

complete for primary: Substrate Type: ___ 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 / 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 large debris piles

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	
973 A			P	S	390	3-5	<5		S	P	S		P								
974 B			P	S	135	10	30		S	P	S		P								

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	

8 COMMENTS

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

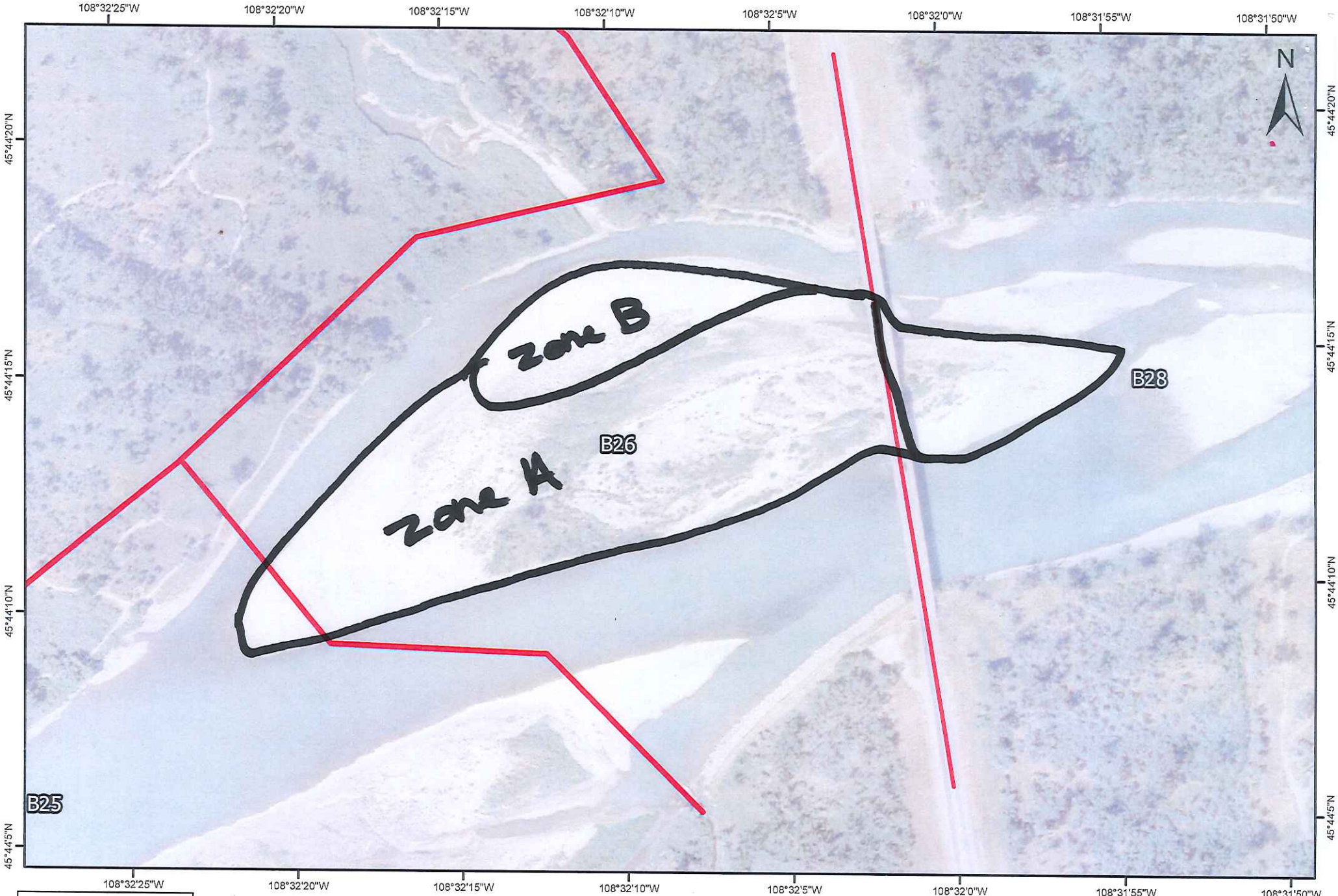
Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

Seg. 25 Zone A, v. sporadic ST & CT, w/ trace of oily debris. no further action

Seg 25 Zone B, 30% of veg. cover impacted, w/ 2 hotspots of oily debris flagged and photo'd. cut, bag & remove.

Hotspots ① N 45° 44.201 W 108° 32.216 (WP 18) ② N 45° 44.223 W 108° 32.074

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



B26 -
(L/R/I)??

DATE:

TEAM:

COMMENTS:

0 30 60 90 120
Meters

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B26 Left Bank / Right Bank / Island

Operations Division: B

Date (dd/mm/yy): 19 / 07 / 11

Time (24h): std / daylight 1028 hrs to 1028 hrs

Water Level: low - mean - bankfull - overbank; falling - steady - rising

Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____ Sun / Clouds / Fog / Rain / Snow / Windy / Calm

Air Temp + / - 35 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 230 m Segment/Reach Length Surveyed ~~230~~ 50 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 S Mixed S 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 ____

Sloped: ____ (>5°)(15°)(30°); straight X braided ____ oxbow ____ flood plain valley ____

Substrate Type: Mixed

Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: < 1m 1–10 m 10–100 m >100m 150 m

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 ____ bags or ____ trucks

access restrictions

Oiled trees/shrubs Y / N River Current strong Y / N

Other Features: access from river likely

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	
657 A				X	~~10~~		1				P		✓								Veg bank
					~~50~~																
					50																

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	

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

OSR = y OSC = unk SSC = unk

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

Sketch Yes/No Photos Yes/No (Roll # 5191 Frames 5191) Video Tape Yes/No (tape#

B26 -
(L/R/I)??

DATE:

TEAM:

COMMENTS:

0 30 60 90 120
Meters

DB/ G /5

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: B26 Left Bank / Right Bank / Island	22/07/11	12:30 hrs to 13:15 hrs	low - mean - bankfull - overbank
Operations Division:			falling - steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 22 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
John Matousek	Cardno ENTRIX	489 2772507
Gary Riley	EPA	415 215 0640
Courtney Ritter Tyree	FWP	406 860 7814
Justin Hankalick	FWP	406 697 3442

3 SEGMENT Total Segment/Reach Length 166 m Segment/Reach Length Surveyed 166 m

Start GPS: LATITUDE 45 deg. 44.104 min. LONGITUDE 108 deg. 32.126 min. Datum: WGS84

End GPS: LATITUDE 45 deg. 44.159 min. LONGITUDE 108 deg. 32.032 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: 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 (P) confined or leveed ____ | Substrate Type: Veg

Sloped:___(>5°)(15°)(30°) | straight____ 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 ____m | 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 ____ 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 MS	LB	UB	OB	OIL COVER Length m	Width m	Distrib. %	OIL THICKNESS TO	CV	CT	ST	FL	OIL CHARACTER FR	MS	TB	PT	TC	SR	AP	NO	SUBST. TYPE(S)
645 A		S	S	P	166	2	10			P	S					P					
646 B				P	220	170	0													NOO	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 MS	LB	UB	OB	MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER SAP	OP	PP	OR	OF	TR	NO	WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)

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

Overbank survey Req. (Y) Overbank survey completed (Y) Shoreline survey completed (Y)

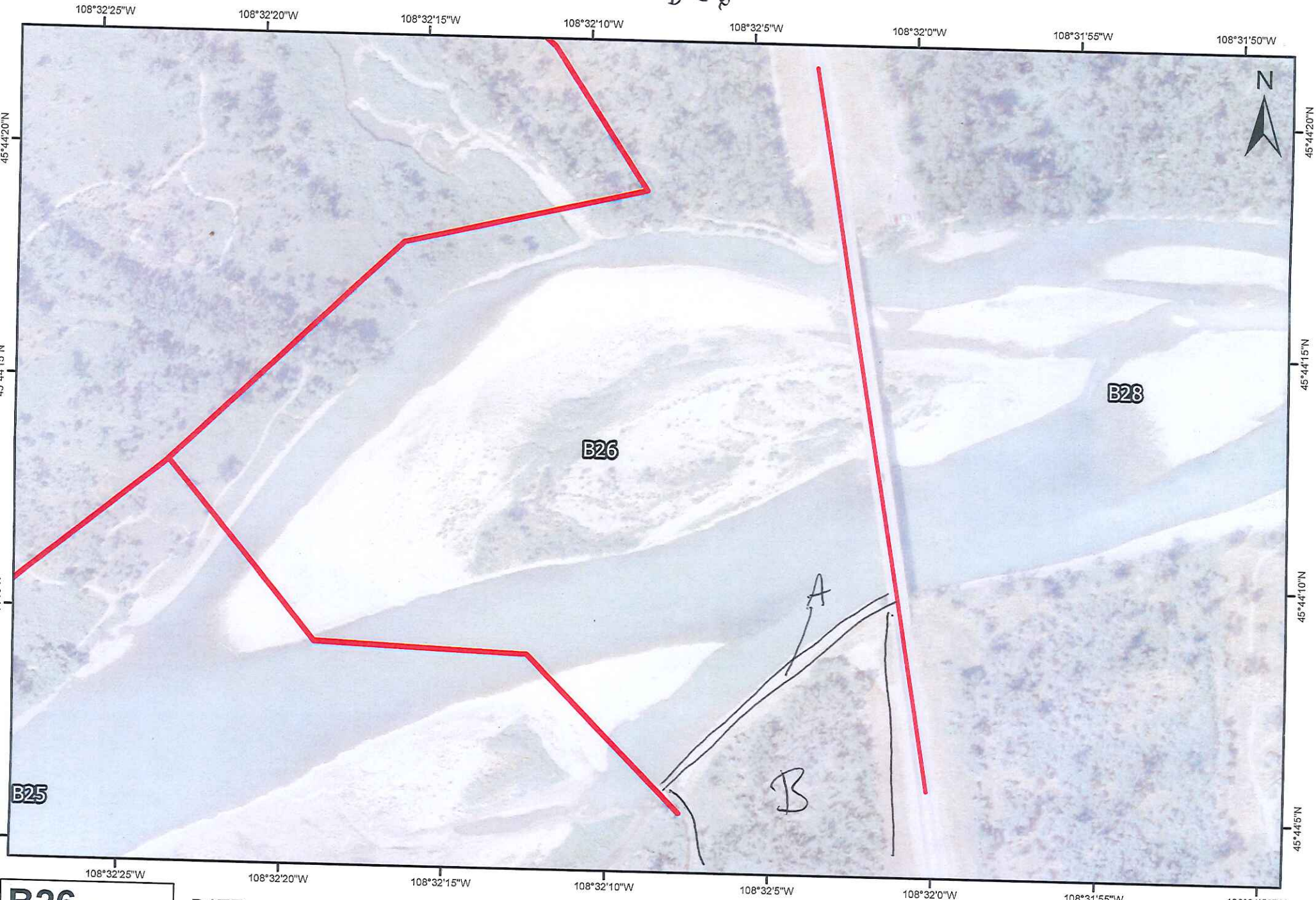
Zone A: Recommend low priority vegetation cutting & removal

Zone B: no oil

(for ALL subsegments record: subsegment ID, length, length surveyed, and GPS start/end fixes)

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

B-26



B26 - (L/R/I)??

DATE:

TEAM:

COMMENTS:

0 30 60 90 120
Meters

Appendix C

Pre-Inspection Survey Transmittal

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 10-11 August 2011

Segment: B26LB

Team: SCAT Liaison John Spenik Signed: _____

USCG Observer TRUMAN SKANG Signed: _____

Observer _____ Signed: _____

Observer _____ Signed: _____

Segment meets criteria? YES X NO ____

RBOS attached? YES ____ NO X

If NO:

Location Sketch attached? YES N/A NO ____

CTR continue? YES ____ NO x

Comments: During the survey some light oiling was encountered and was collected /cleaned by a hot shot cleanup crew.

Appendix D

Post-Inspection Survey Transmittal

POST

Post Inspection Survey Transmittal

COMPLETED

Segment B26 - Island

Date of Survey 28-AUG-2011

SCAT Team Member Ariel Blanc Signed: Ariel Blanc

SCAT Team Member DANIEL ELEFANT Signed:

SCAT Team Member LARISA LEONOVA Signed: L. Leonova

SCAT Team Member Earl Radonski Signed: Earl Radonski

Segment FAILED ReSCAT ☐

Segment Conditionally PASSES ReSCAT ☑

→ **Referred to Ops For Further Treatment**

IF the *Segment FAILED ReSCAT*, another ReSCAT is required after treatment has been completed.
IF the *Segment Conditionally PASSES ReSCAT*, a SCAT/Ops Liaison will verify treatment completion.

Describe the zone requiring further treatment. Based on the CTR(s), comment on oiling conditions, the appropriate ATMs to use, GPS waypoints, additional comments, attach a map, etc.

Zone B: 100x30m area of 1.5% coat & stain on willows, Oiling is approximately 1m high (off substrate) on willows. Oiled zone extends into B26-LB. Entire oiled zone (B26 Island & B26 Left Bank) should be treated together. (see figure) Entire oiled zone recommended treatment: 10 workers 3-4 hours, cut & apply dust fixative (ATM 1, 2 & 9) to TRANSFERABLE oiled branches.

Zone Dimensions: Length 100m Width 30m (required) **GPS Waypoint:** Lat. 45° 44.232 Long. 108° 32.169 (center of zone)

The undersigned attests that the above treatment has been completed and the identified area meets the Approved Treatment Methods Target Endpoints:

Sign Name	Print Name/ Affiliation	Date
Daryl Reed	Daryl Reed State/MDEQ	9-2-11
[signature]	Ray McKelvey	9-2-11

SCAT/Ops Liaison (SCAT RP Representative)

Appendix E

Final SCAT Survey Forms
and Sketches

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: B26 Left Bank / Right Bank / Island			low - mean - bankfull - overbank
Operations Division: B	02/09/11	14:00 hrs to 14:10 hrs	falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 24° deg C

2 SURVEY TEAM # 4	Name	Organization	Signature
	Michael Dirks	Cardno ENTRIX	Michael D. Dirks
	Eric Harlow	Cardno ENTRIX	David Harlow
	Brad Olszeski	MTFWP	Brad Olszeski
	Larisa Leonova	USEPA	L. Leonova

3 SEGMENT Total Segment/Reach Length 185 m Segment/Reach Length Surveyed 42 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: WGS84

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 X Pebble/Cobble____ Boulder____ Peat/Organic____ | Vegetated Bank: P | Wooded Upland: ____

Sediment Flat: Clay/Mud____ Sand____ Mixed/Coarse X | 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 / N Alongshore from next segment Y / N

Debris: Y / N oiled Y / N amount < 1 bags or ____trucks | access restrictions: Barbed wire fence with 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 MS	LB	UB	OB	OIL COVER Length m	Width m	Distrib. %	OIL THICKNESS TO	CV	CT	ST	FL	OIL CHARACTER FR	MS	TB	PT	TC	SR	AP	NO	SUBST. TYPE(S)
2094 A				X	42m	22	<1			X	X						X				Vegetated banks, manmade riprap

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

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 flags where no oiling was observed. Collected small debris and vegetation with any remaining coated vegetation that would transfer to gloves. No further treatment.

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

B26 RB
9/2/11
Team 4

DB/Gre

R

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident Page 1 of 2

1 GENERAL INFORMATION	Date (16/08/11)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B26 Left Bank / Right Bank / Island			low - mean - bankfull - overbank
Operations Division:		8h00 hrs to 11h00 hrs	falling - steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 20 deg C

2 SURVEY TEAM # 5	name	organization	contact phone number
	Merlo Gauvreau	Polaris	
	Chris Arrendondo	Cardno Entrix	
	Cindy Santiago	EPA	Cindy C. Santiago
	Marcile Sigler	DEQ	Marcile Sigler

3 SEGMENT Total Segment/Reach Length 431 m Segment/Reach Length Surveyed 431 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 S___ 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 S___ 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 100 m | 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 ---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	
1598 A				X	431	32	0													X	

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

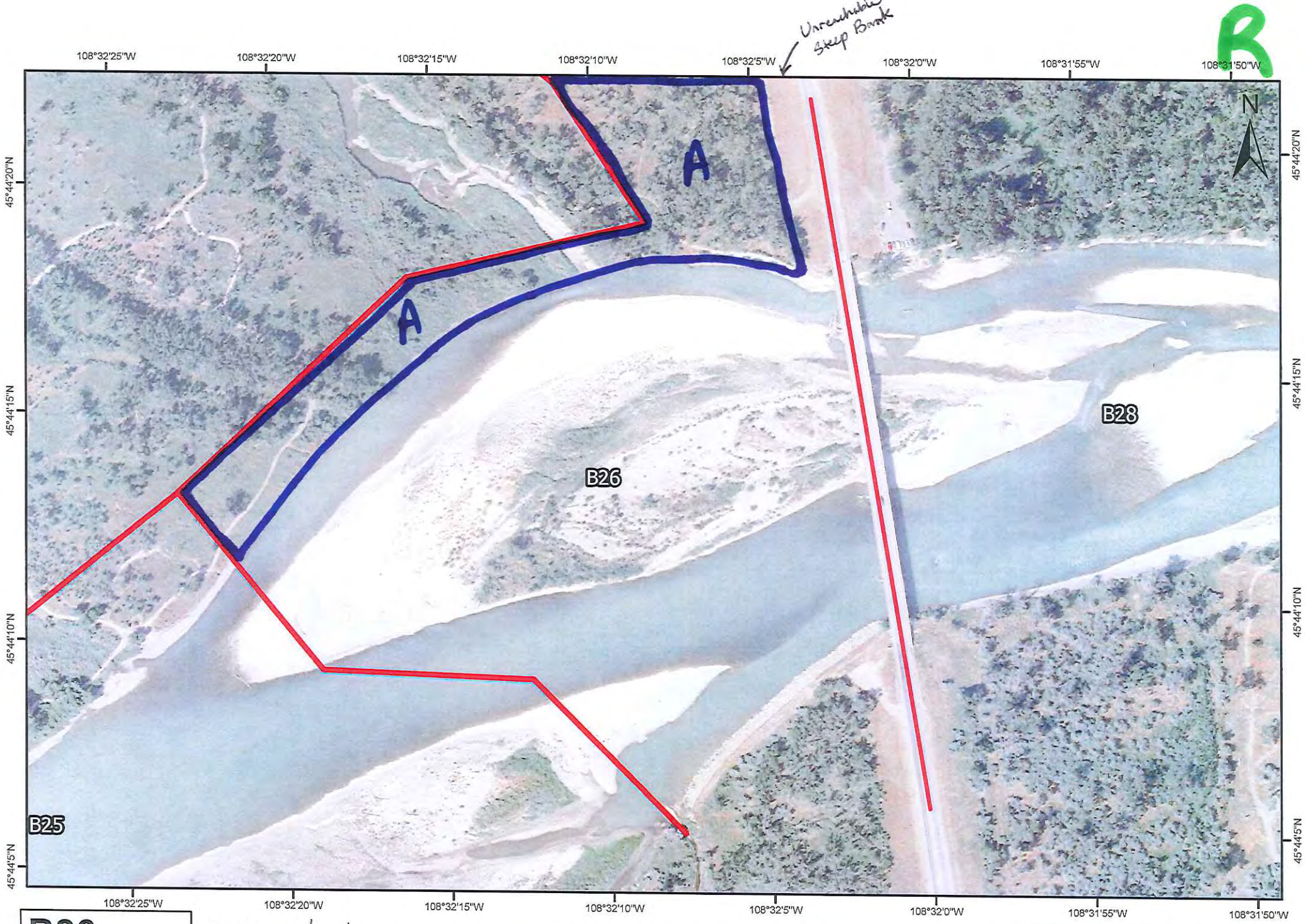
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH	OILED ZONE	SUBSURFACE OIL CHARACTER							WATER TABLE	SHEEN COLOUR	CLEAN BELOW	SUBST. TYPE(S)
	MS	LB	UB	OB	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	

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

A: ReSCAT, No oil observe, meet the conditions of the CTR, NFT

(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#



B26 -

(L/R/I)??

DATE: 8/16/2011

TEAM: 5

COMMENTS:

0 30 60 90 120

Meters

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: B26 Left Bank / Right Bank / Island	9-1-11	1050 hrs to 1210 hrs	low - mean - bankfull - overbank
Operations Division: B			falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 20 deg C

2 SURVEY TEAM # 3	Name	Organization	Signature
	Chuck Pons	Cardno ENTRIX	
	TERRY TERRILLER	U.S. EPA	
	Mark Peterson	DEQ	

3 SEGMENT Total Segment/Reach Length 470 m Segment/Reach Length Surveyed 470 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 P Pebble/Cobble S Boulder_____ Peat/Organic_____ | Vegetated Bank: S | 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: Sand

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 1–10 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 / 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	
2027 A				X	470	30	<1				P						P				Sand

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / 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 has less than 1% stain veg + debris

No further Treatment

Sketch Yes / No Photos Yes / No Frames_____ Photographer_____

9/1/2011 5:38 pm
B28-LB
005
W108°32'11.04"
ACTIVE LOG 00
002
003
W108°
N45°44'16.8"
A
B26
B26-IS
B26R
T.J.
9-1-11
B28
© 2011 Google
Image © 2011 GeoEye
1996
45°44'20.48" N 108°32'08.81" W elev 3150 ft
Eye alt

DB/G R

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident Page 1 of 2

1 GENERAL INFORMATION	Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B26 Left Bank / Right Bank / Island	28/AUG/2011		low - mean - bankfull - overbank
Operations Division: B26 ISLAND		14:29 hrs to 16:05 hrs	falling - steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 30 deg C

2 SURVEY TEAM # 5

name	organization	contact phone number
Ariel Blanc	Polaris	
Daniel Elefant	Cardno ENTRIX	
Earl Radonski	~~DEQ~~ MFWP	Earl Radonski
Larisa Leonova	EPA	L. Leonova

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 358 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_S__ (type) riprap | Wetland: Swamp_____ Bog/Fen_____ Marsh _____

Sediment Bank: Clay/Mud_____ Sand_S___ Mixed_S___ 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 2-3 m | canyon_____ manmade_____ meander P confined or leveed S | Substrate Type: sand/sed

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 1–10 m 10–100 m >100m _____m | 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 20-30 bags or _____ trucks | access restrictions

Oiled trees/shrubs Y / N | River Current strong Y / N | Other Features: 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	
1921 A				X	358	45	<1			X	X						X				Veg/debris
1927 B			X	X	100	30	1.5			X	X						X				Veg-willows

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	

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

ReSCAT

Zone A: Trace oiled vegetation and natural debris. Hotshot crew accompanied ReSCAT Team. Remaining transferable oil removed during ReSCAT. Zone A meets operational endpoints. NFT.

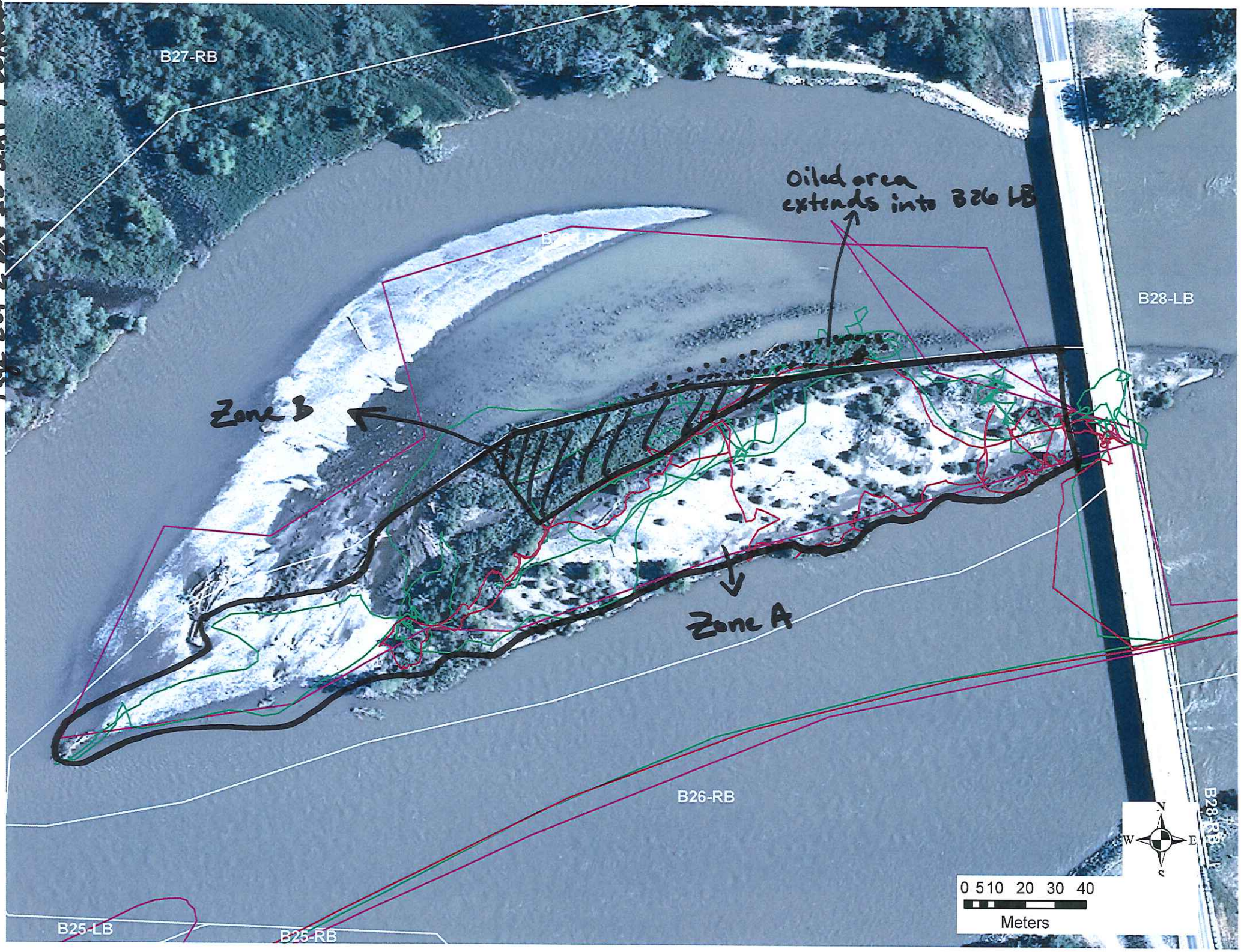
Zone B: Sporadic oiling of willows. Some oil is weathered, some remains transferable. Oiled zone extends into B26 LB Recommended treatment: Ten workers, 3-4 hours for Entire oiled zone (B26 Island and B26 LB - see attached figure).

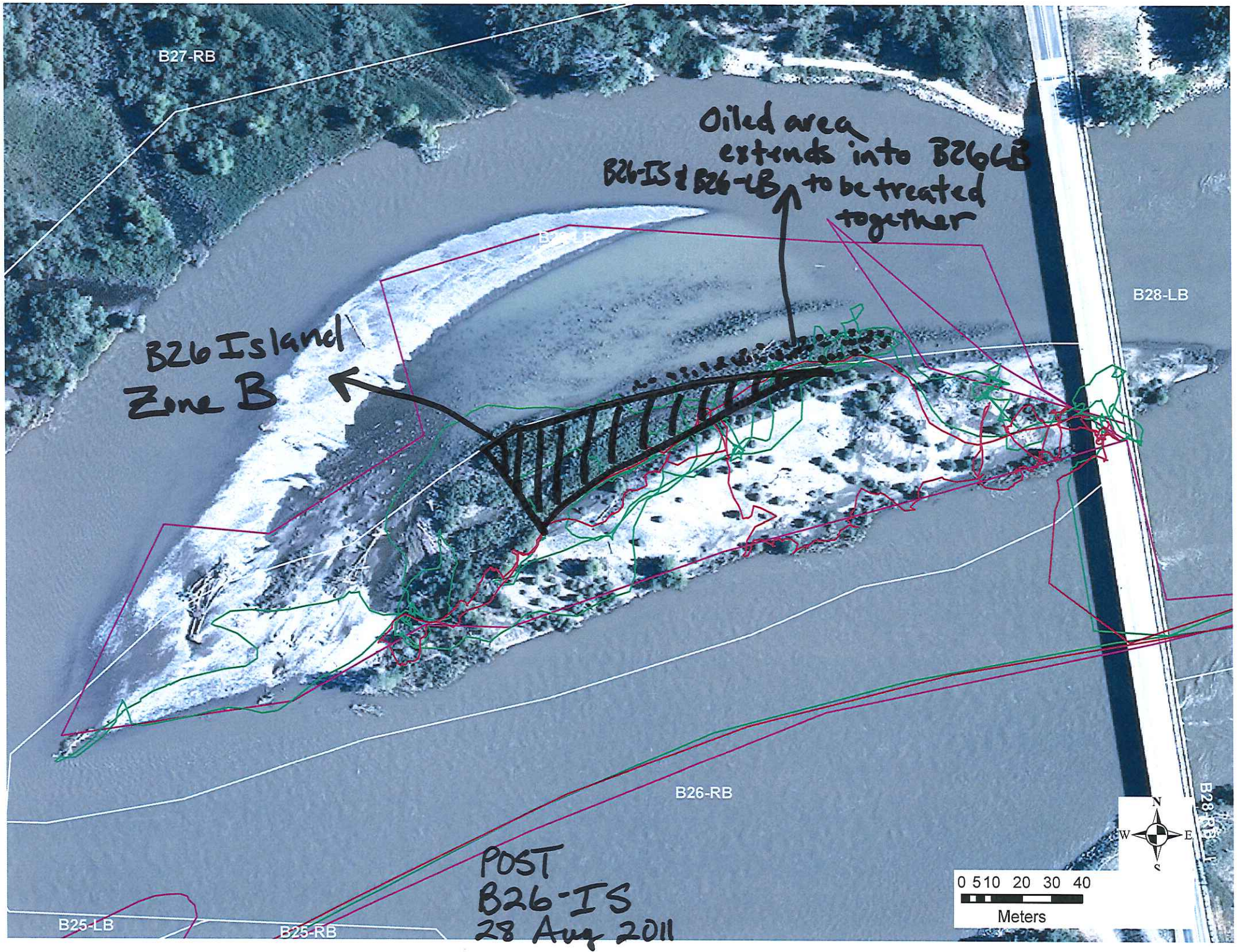
Segment is Conditionally Approved

(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# _____

Page 2 of 2 B26-IS SEATY 28AUG2011




B27-RB
Oiled area extends into B26LB
B26-IS & B26-LB to be treated together
B28-LB
B26 Island Zone B
B26-RB
B28-RB
B25-LB
B25-RB
POST
B26-IS
28 Aug 2011
N
W
E
S
0 5 10 20 30 40
Meters

DB/O

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: B26 Left Bank / Right Bank / Island	09/10/2011		low - mean - bankfull - overbank
Operations Division:		905 hrs to 945 hrs	falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - 15 deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
	Richard Marty	Polaris	Richard Marty
	Jay Watson	State of Montana	Jay Watson

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 870 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 S___ Sand S___ 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 X confined or leveed _____ | Substrate Type: Silt/mud/sand

Sloped:___(>5°)(15°)(30°) | straight_____ braided _____ oxbow_____ flood plain valley_____

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width : < 1m 1–10 m 10–100 m >100m 100 m | 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 _____bags or _trucks | access restrictions: Must have landowner permission

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	620	30	<1				x							x			Vegetation Debris
B				X	250	30	0													x	

2425
2426

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	
None																	

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

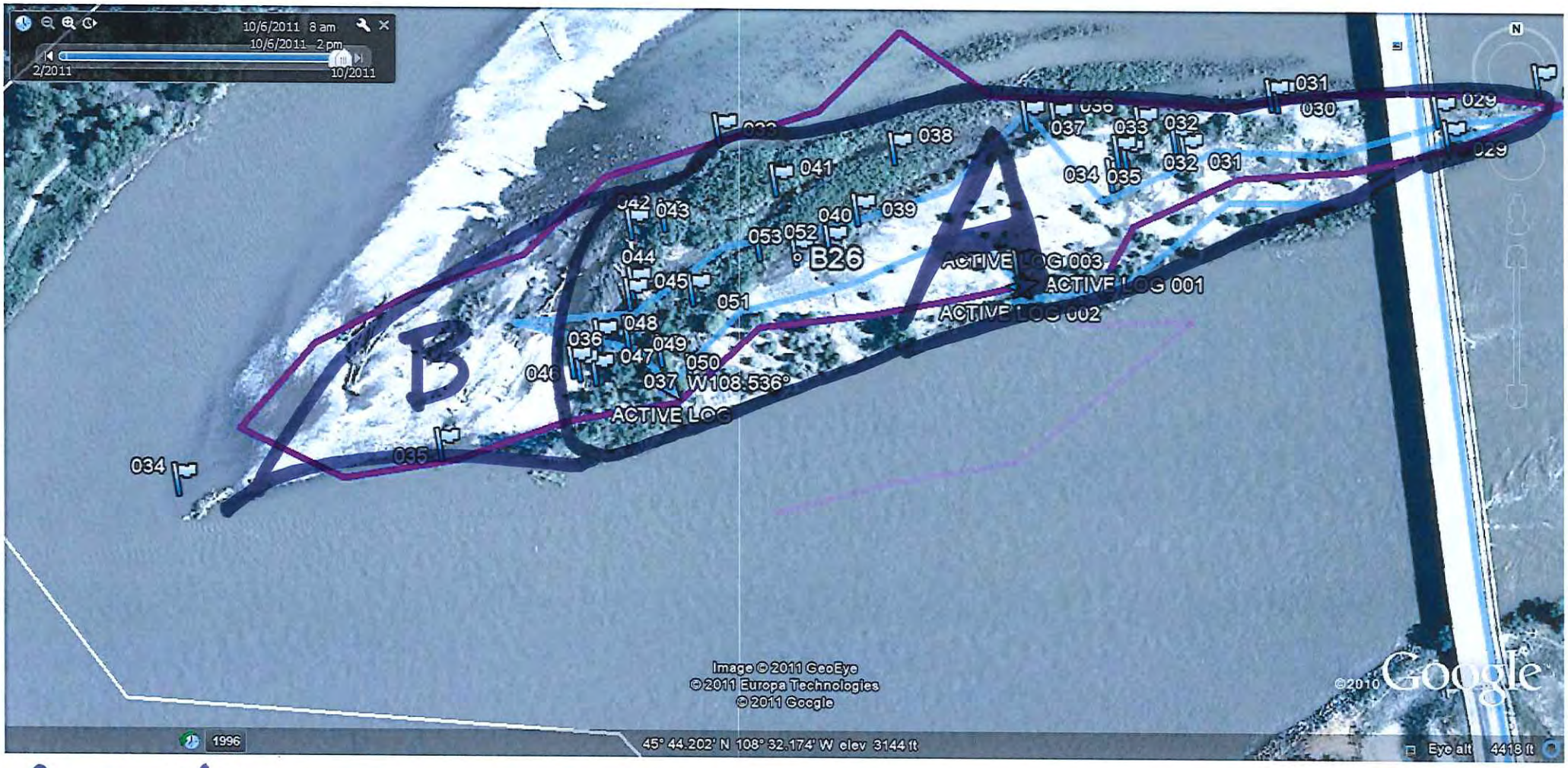
Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

Natural Attenuation is appropriate for the trace oiling remaining in Zone A. Oil is not transferable.

The surveyed area is NFT.

Sketch Yes / No Photos Yes / No Frames_____ Photographer_____

B26I



A = VL Trace Stain

B = NOO

SCAT T. 1

6 Oct. 2011

Appendix F

Completed SCAT Segment Sign-Off Forms

SCAT Segment Operations Completion Sign-Off Sheet

Silvertip Pipeline Release

Segment B26 RB

Date of Survey 9/2/11

Dates of Initial SCAT Assessments 37 19JUL11 (DL)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

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

Segment Assessment Complete[1] ☑ Only accessed road ROW, not majority of segment

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).

Larisa Leonova — LARISA LEONOVA — 9/3/11
Sign Name — Print Name/ Affiliation — Date
Federal Representative (EPA/USCG)

Brad Olszewski — BRAD OLSZEWSKI / FWP — 9/2/11
Sign Name — Print Name/ Affiliation — Date
State Representative (DEQ/FWP)

David Eric Harlow — David Eric Harlow Cardno ENTRIX — 9/2/11
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.

COMPLETED

Silvertip Pipeline Spill
SCAT Segment Sign-Off Sheet

Operations Division:	A ___ (B) ___ C ___
SCAT Area Number (i.e. A12):	B26
SCAT Segment Number (i.e. A12-LB/IS/RB):	B26/LB

	Check if Complete:
1. Completion Date for Initial SCAT Assessment: 22 July 2011	☒
2. Combined Treatment Recommendations (CTRs) Developed/Issued:	☒
List CTRs Applicable to SCAT Segment: 22	
3. Clean-Up Operations Conducted:	☒
4. Inspection (CTR Objectives and CTR Addendums Complete):	☐

RP Representative (SCAT/Ops Liaison Contractor) — Date: 22 AUG 2011

5. SCAT Reassessment: ☐

Cindy E. Santiago — Federal Representative (EPA/USCG) — Date: 8/22/11

Marcile Seyler — State Representative (DEQ/FWP) — Date: 8/26/11

RP Representative (SCAT Contractor) — Date: 22-08-11

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 Reassessment, the SCAT area will achieve the response endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ upon completion.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B26 L

Date of Survey 9-1-11

Dates of Initial SCAT Assessments 19JUL11 (EG)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 22

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

Segment Assessment Complete[1] ☒

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	Print Name/ Affiliation	Date
	TERRY TANNER / U.S. EPA	9-1-11

Federal Representative (EPA/USCG)

Sign Name	Print Name/ Affiliation	Date
	Mark Peterson / DEQ	9-1-11

State Representative (DEQ/FWP)

Sign Name	Print Name/ Affiliation	Date
	Charles Pons / Cardno ENTRIX	9-1-11

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 B26-Island

Date of Survey 28-AUG-2011

Dates of Initial SCAT Assessments 19, 21, 28 & 29 JULY-2011
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment CTR 35

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

Segment Assessment Complete[1] ☐

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).

L. Leonova — LARISA LEONOVA / EPA — 8/29/11
Sign Name — Print Name/ Affiliation — Date
Federal Representative (EPA/USCG)

Earl Radonski — Earl Radonski / FWP — 8/28/11
Sign Name — Print Name/ Affiliation — Date
State Representative (DEQ/FWP)

Ariel Blanc — Ariel Blanc (Polaris) — 28-AUG-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 __B26I_____ Date of Survey ___09/10/2011_____

Dates of Initial SCAT Assessments _19, 29 July, 28 August 2011_____
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment ___CTR-35_____

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

Segment Assessment Complete[1] ☒

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	Print Name/ Affiliation	Date
No federal rep.		

Federal Representative (EPA/USCG)

Sign Name	Print Name/ Affiliation	Date
[signature]	JAY WATSON FWP	10/7/11

State Representative (DEQ/FWP)

Sign Name	Print Name/ Affiliation	Date
Richard Marty	Richard Marty	6 October 2011

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

CTR Addendum

CTR ADDENDUM

NAME: DAVE WHITE

ADDRESS:

SEGMENT #: B26 RB

CTR #: 37

CLAIMS VISIT COMPLETE

CLAIMS ADJUSTER NAME: DATE:

CLAIMS ADJUSTER COMMENTS:

SCAT CLAIMS LIAISON VISIT COMPLETE

SCAT CLAIMS LIAISON NAME: LAUREN GLUSHIK DATE: 14 OCT 2011

SCAT CLAIMS LIAISON COMMENTS AND/OR INTERFACE WITH LAND OWNER

Execute CTR ZONE C AS PRESCRIBED OILED DEBRIS IN RIPRAP.
ALSO EXECUTE ZONE C THRU TO CONFLUENCE OF CREEK.

OPS COMPLETE

OPS LEAD NAME: DATE:

OPS COMMENTS AND/OR INTERFACE WITH LAND OWNER

CROP TILLING / REMOVAL COMPLETE

POC NAME: DATE:

POC COMMENTS AND/OR INTERFACE WITH LAND OWNER

FINAL WALKTHROUGH COMPLETE

SCAT CLAIMS LIAISON NAME: DATE:

SCAT CLAIMS LIAISON COMMENTS AND/OR INTERFACE WITH LAND OWNER

ADDENDUM COMPLETE

NAME: DATE:

Original - Segment File 1 Copy - Land Owner 1 Copy - Claims