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ExxonMobil Pipeline Company

SCAT Area Transition Report for B46

Silvertip Pipeline Incident
Laurel, Montana

October 25, 2011

SCAT Area Transition Report for B46

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

Prepared by:
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Our Ref.:
B0085883.1103

Date:
October 25, 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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Table of Contents

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 B46, 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 B46. 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 B46, 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 B46 is 114.2. There were no access issues for the right bank.

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 B46. One moderately oiled great blue heron (*Ardea herodias*) was observed but not captured for cleaning. A Wildlife Priority Cleanup Area (WPCA) was identified. The WPCA consisted of an oiled debris pile with an associated pool with sheen. The WPCA was treated to reduce the potential for wildlife oiling and is no longer considered a wildlife hazard. A bald eagle (*Haliaeetus leucocephalus*) nest was identified in Area B46 and the appropriate buffer zone was provided to Operations.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B46. 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 B46 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude	Results Validated?
EPA	SPSE115_071411	14-Jul-11	Sediment	SPSE115	45.7209962	-108.5742936	NA
EPA	SPSE115_071411	14-Jul-11	Sediment	SPSE115	45.7209962	-108.5742936	Yes

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

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 B46 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B46.

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. 8).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B46, 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 B46 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the right bank within Area B46, which is presented in Appendix C.

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 B46 following completion of oil removal activities. The SCAT team performed final surveys of the right bank within SCAT Area B46 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 within Area B46, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.

2. Transition Sign-Off Form

SCAT Area Transition Report for B46

Prepared for:

Unified Command

_____

Date

_____

Unified Command – RP

SCAT Area Transition Report for B46

Prepared for:

Unified Command

_____

Date

_____

Unified Command – FOSC

SCAT Area Transition Report for B46

Prepared for:

Unified Command

_____

Date

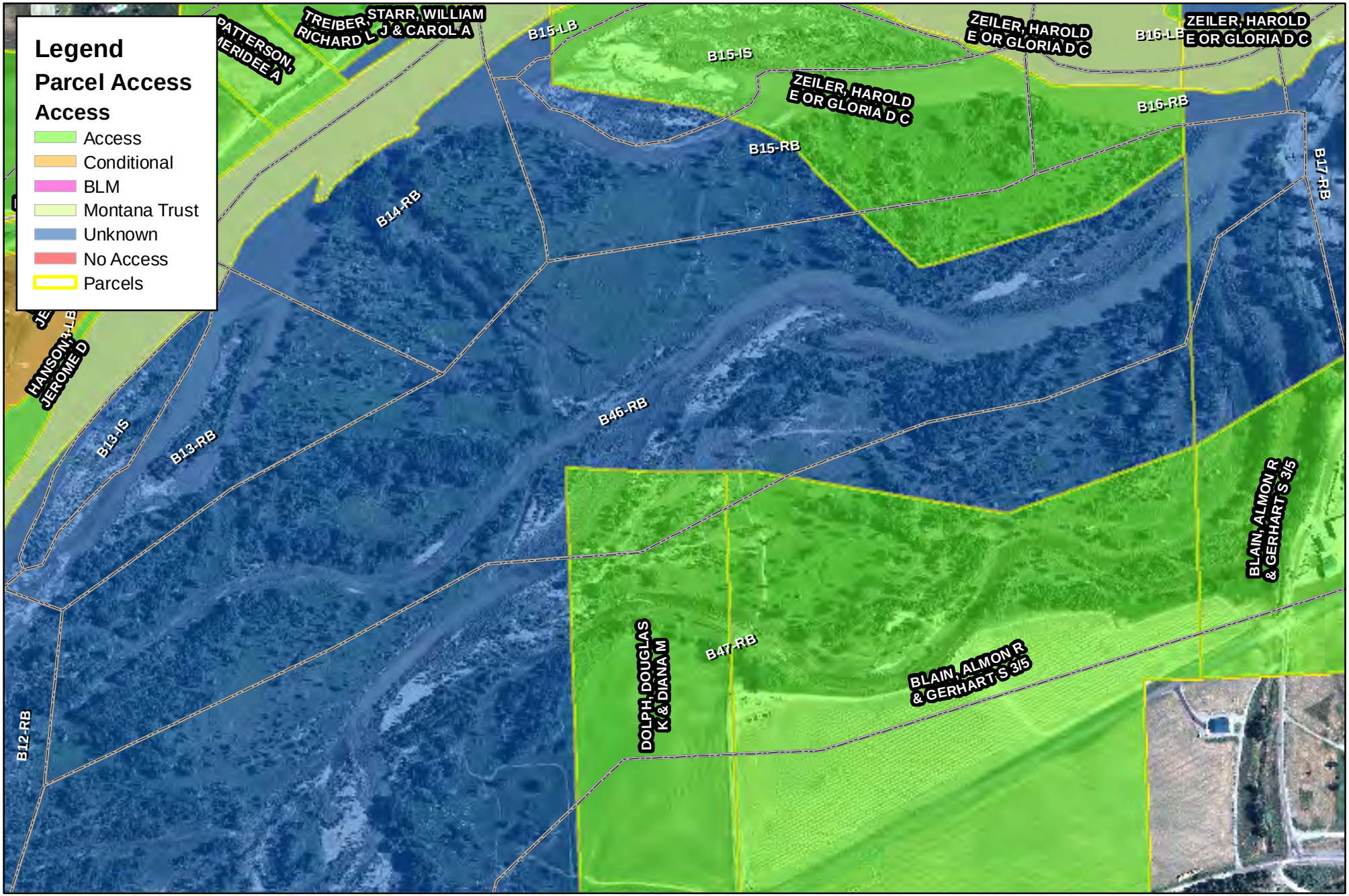
_____

Unified Command – MDEQ

Silvertip Pipeline Incident
Area Transition Report Map - Parcels
Segment - B46

9/27/2011

1:6,500



0 650 1,300 2,600 Feet

Figure 1

Date: 9/27/2011 Time: 3:06:06 PM

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

Silvertip Pipeline Incident
SCAT Area Transition Report Map
Area - B46

ExxonMobil Pipeline

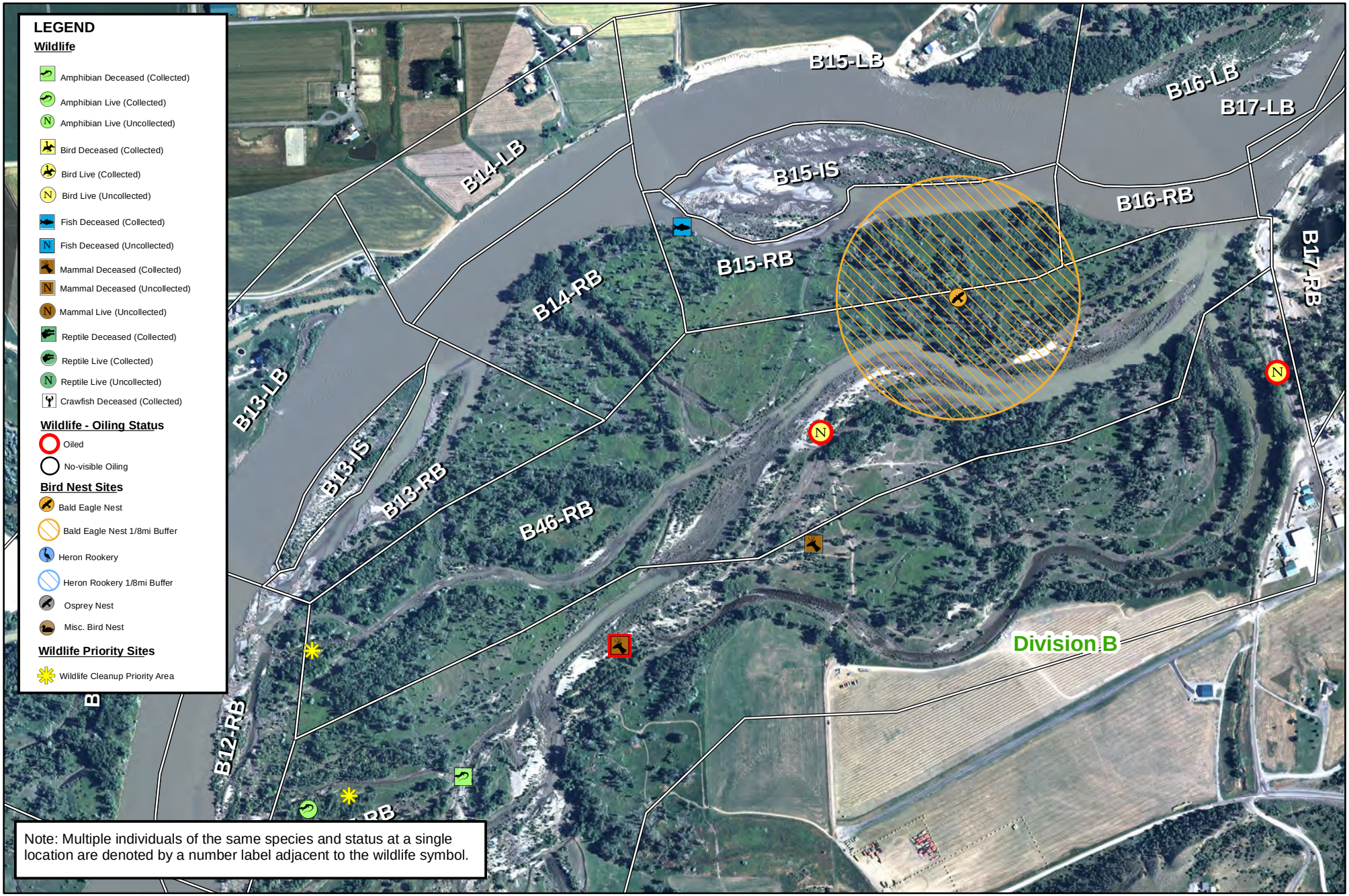
N

1:8,400

9/25/2011

The Response Group

Path: P:\GIS\MXD's\Wildlife\ATR Maps - Figure 2\ATR Map_Div.B_Fig2_09252011.mxd

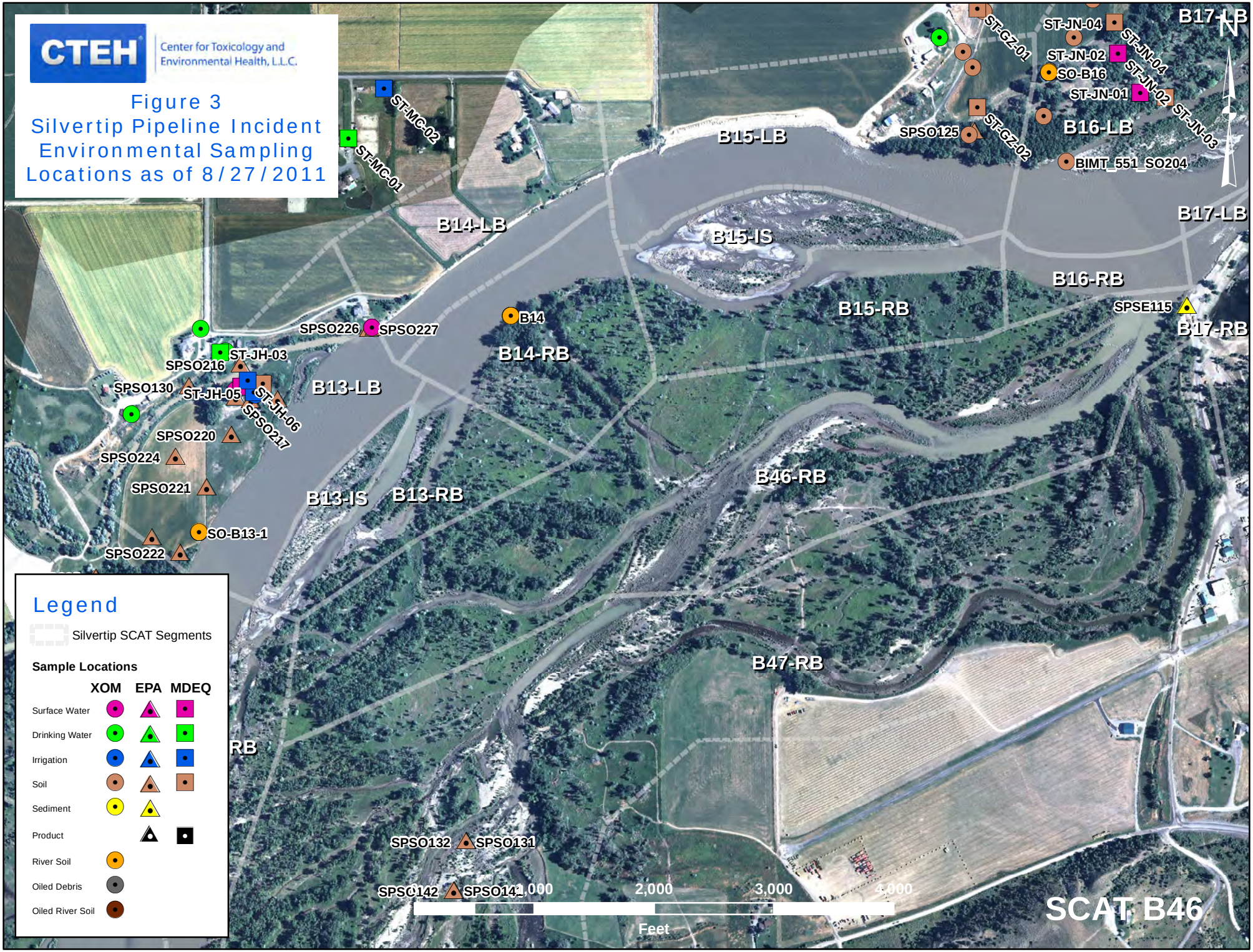


Note: Multiple individuals of the same species and status at a single location are denoted by a number label adjacent to the wildlife symbol.

0 875 1,750 3,500 Feet

Figure 2
Wildlife Resources

Date: 9/25/2011 Time: 3:59:17 PM


CTEH
Center for Toxicology and Environmental Health, L.L.C.
Figure 3
Silvertip Pipeline Incident
Environmental Sampling
Locations as of 8/27/2011
N
ST-MC-02
ST-MC-01
ST-GZ-01
ST-JN-04
ST-JN-02
SO-B16
ST-JN-01
ST-GZ-02
SPSO125
BIMT_551_SO204
B17-LB
B16-LB
B15-LB
B14-LB
B15-IS
B16-RB
B15-RB
B17-RB
B14-RB
B14
SPSE115
SPSO226
SPSO227
ST-JH-03
SPSO216
SPSO130
ST-JH-05
ST-JH-06
SPSO217
B13-LB
SPSO220
SPSO224
SPSO221
B13-IS
B13-RB
B46-RB
SO-B13-1
SPSO222
B47-RB
SPSO132
SPSO131
SPSO142
SPSO141
0
1,000
2,000
3,000
4,000
Feet
SCAT B46
Legend
Silvertip SCAT Segments
Sample Locations
XOM
EPA
MDEQ
Surface Water
Drinking Water
Irrigation
Soil
Sediment
Product
River Soil
Oiled Debris
Oiled River Soil

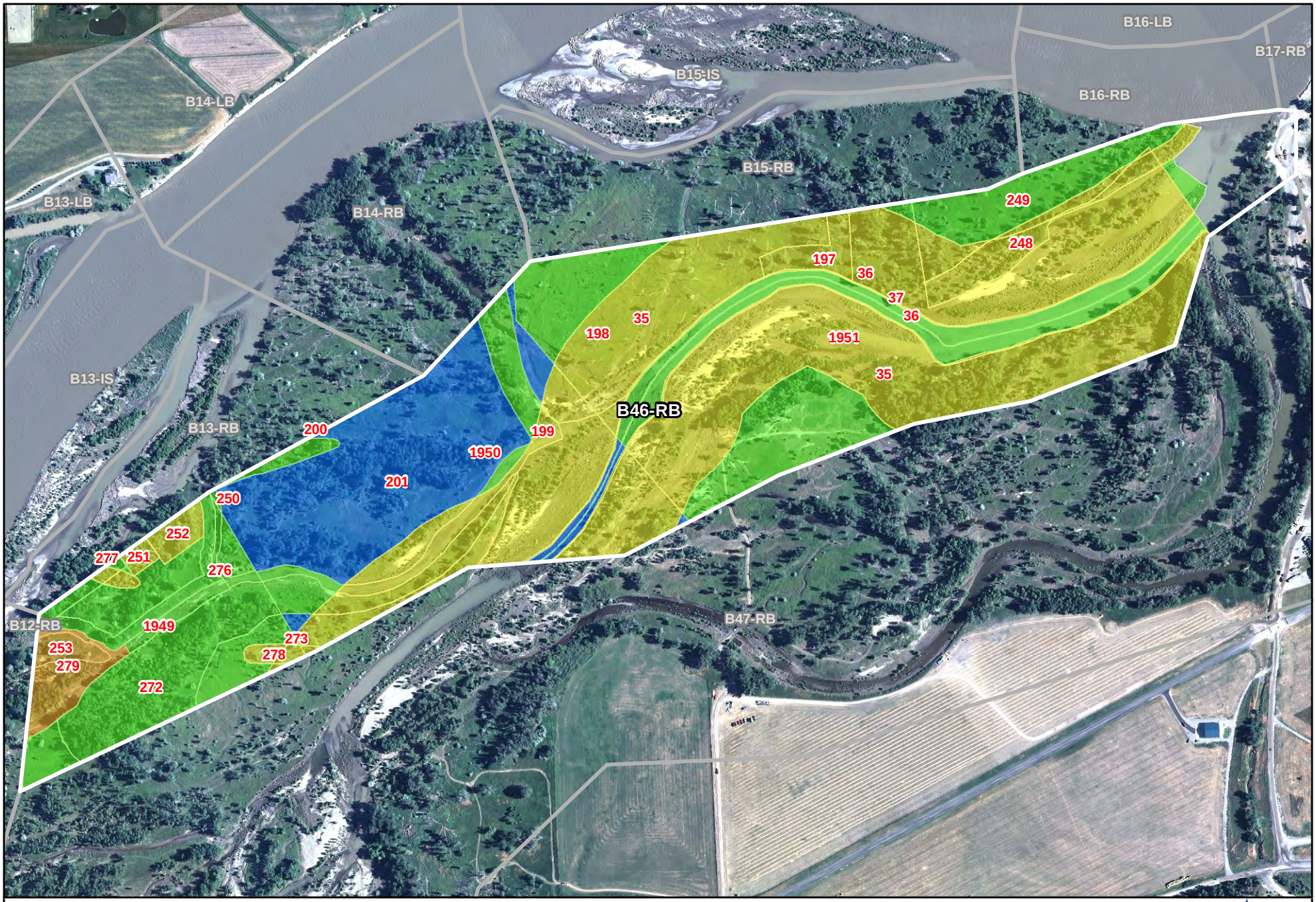


Figure 4 - Maximum SCAT Observations For SCAT Area: B46

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: 10/18/2011 1:59:39 PM

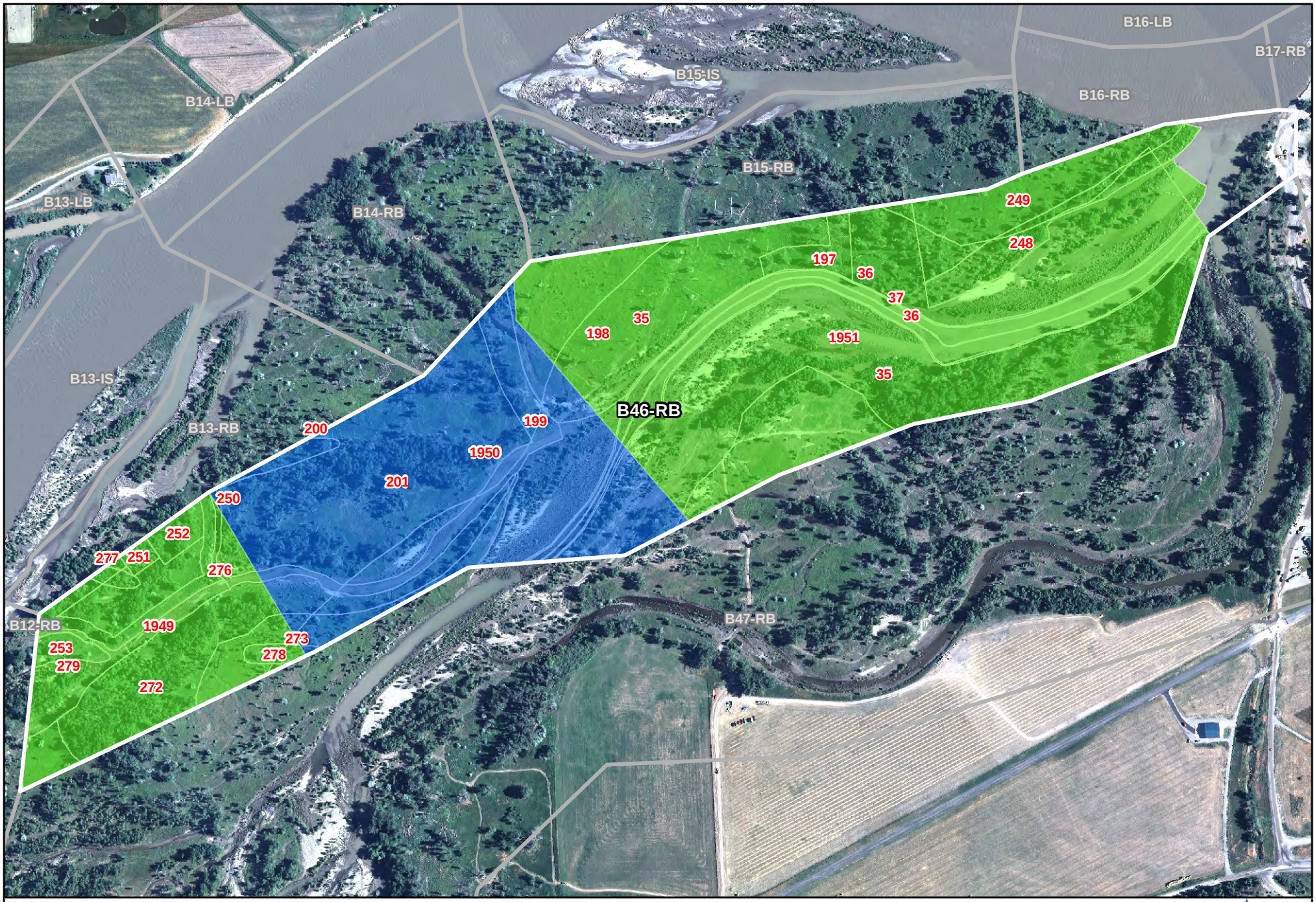


Figure 5 - Final SCAT Observations For SCAT Area: B46

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: 10/18/2011 2:06:33 PM

Appendix A

Sample Detection Summary

Sample Results For
SCAT Area B46

Printed 9/20/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?

No Detections in Field Samples

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Appendix B

Initial SCAT Survey Forms and Sketches

DB / G / Sc

1 GENERAL INFORMATION — Both Banks — Left Bank / Right Bank / Island — Date (dd/mm/yy): 08/07/11 — Time (24h): std / daylight: 0833 hrs to ~~1055~~ 10:53 hrs — Water Level: low - mean - bankfull - overbank; falling - steady - rising

Segment/Reach ID: B46 — Operations Division: AA 18 Oct

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

2 SURVEY TEAM # 2 + 1

name	organization	contact phone number	
Tom Freeman	Polaris	Travis Olson	USCG
Andrew Milanes	Polaris	Kim Dickerson	USPWS
Andrew Johnson	USCG		
Randy Henry	Polaris		

3 SEGMENT — Total Segment/Reach Length 1750 m — Segment/Reach Length Surveyed 1105 m

Start GPS: LATITUDE 65.745193 deg. ____ min. LONGITUDE -104.594701 deg. ____ min. Datum: ____

End GPS: LATITUDE 65.721248 deg. ____ min. LONGITUDE -104.574439 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 ____ — Vegetated Bank: (P) — Wooded Upland: (S)

Sediment Flat: Clay/Mud ____ Sand ____ Mixed/Coarse (S) — Other: ____ — If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER — select as appropriate — complete for primary

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

Sloped: ____ (>5°)(15°)(30°) — straight ____ braided ____ oxbow ____ flood plain valley P — 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 ~~20~~ / 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)
35 A				X	1105	100	<1	(X)	(X)	X	X		X								
36 B			X		1105	2	60%			X	(X)		X								grass, debris
37 C	X				1105	1	5%			(X)	X		X								grass, debris, 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 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

Zones A & B are on both sides of the channel. Widths for Zones A & B are doubled.

Zone B stem height: 30cm Zone C Stem Height: 60cm

See attached sketch for Zone Locations

Treatment Recommendations:

Zone A: Remove smaller oiled debris larger than stain. Clean larger debris.

Zone B: Remove oiled vegetation ~~and tree branches~~ greater than stain.

Zone C: Remove oiled vegetation and tree branches greater than stain.

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident — Page ____ of ____

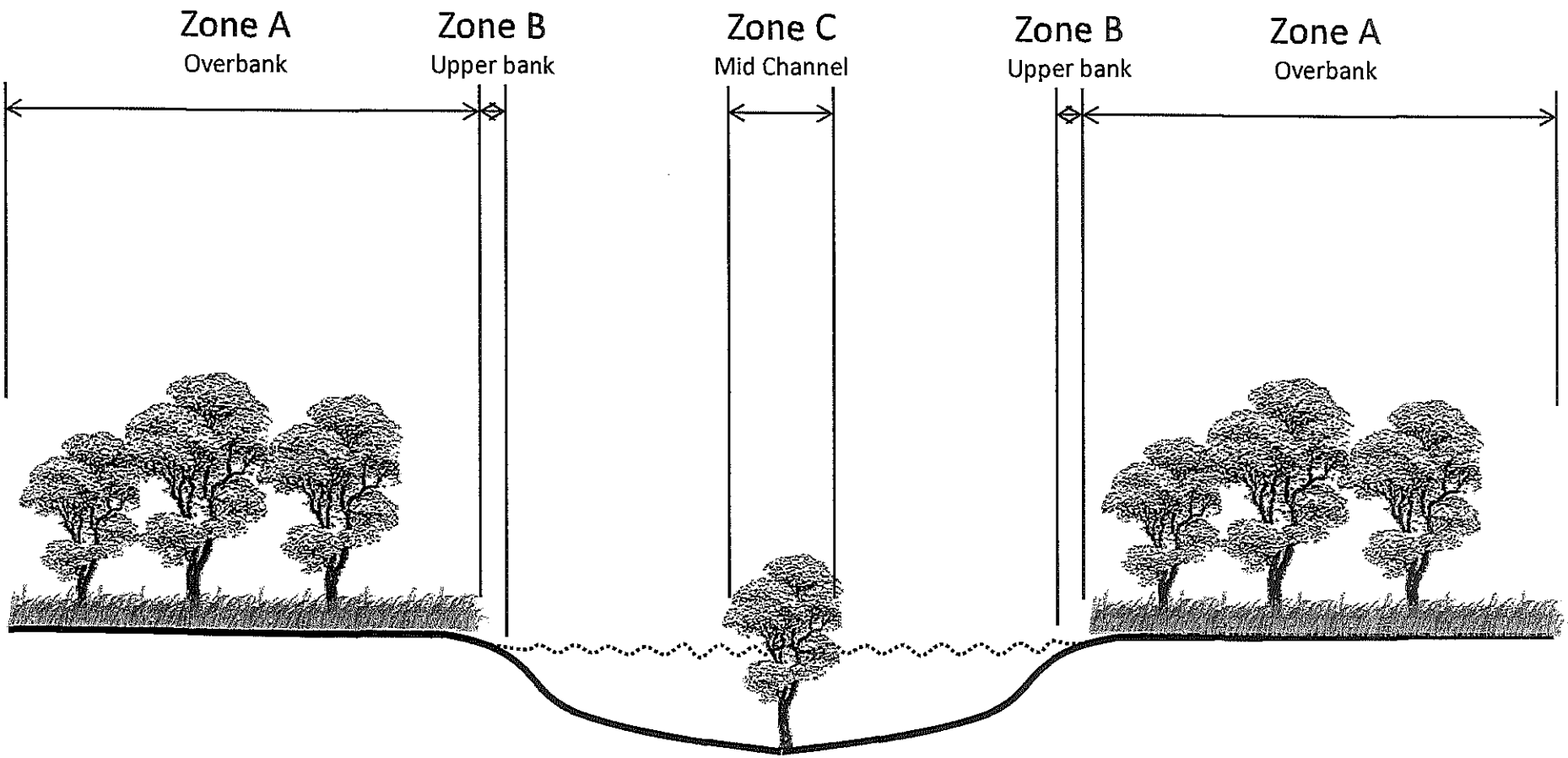
(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

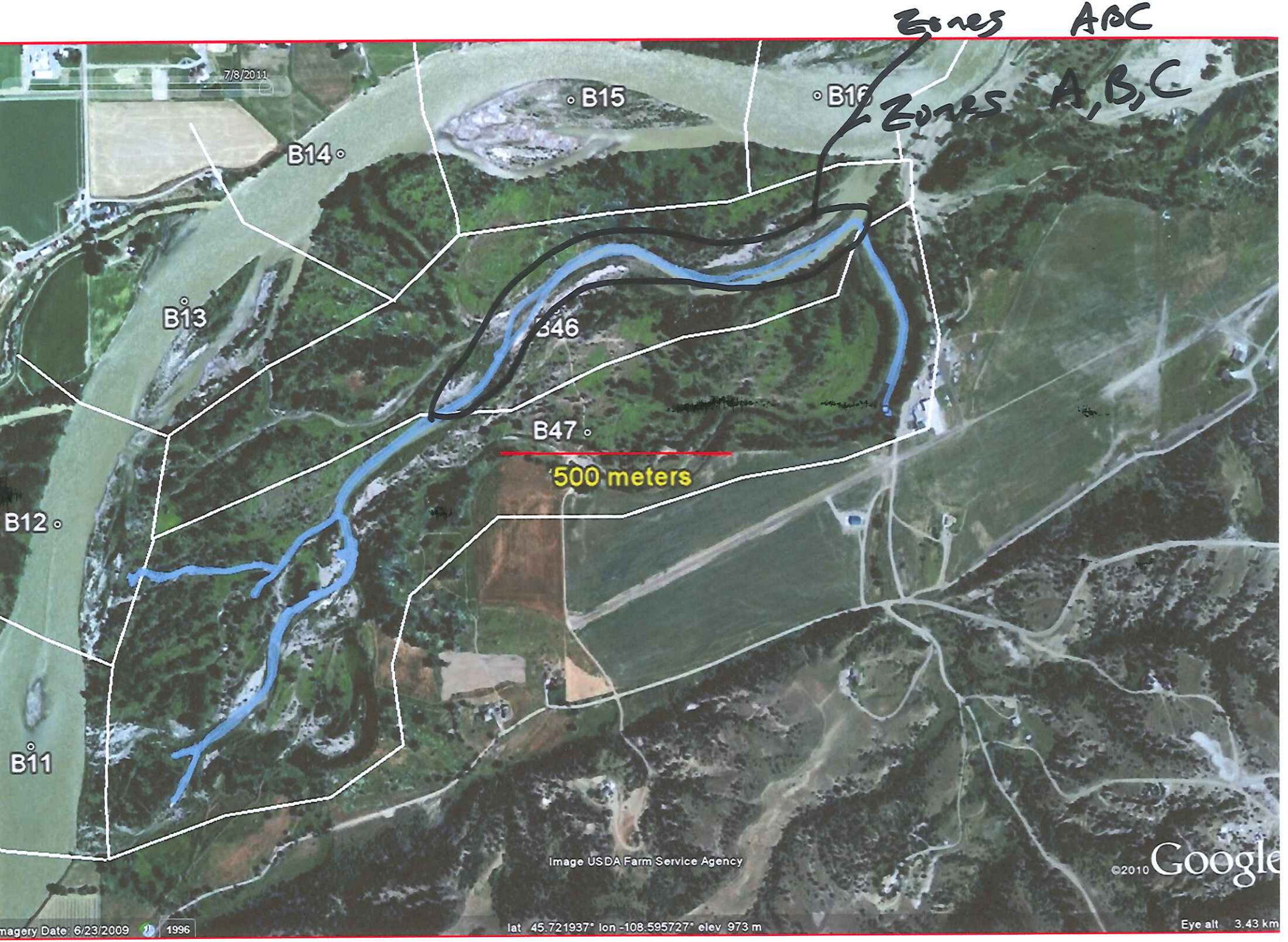
Sketch Yes/No Photos (Yes)/No (Roll # ____ Frames ____) Video Tape Yes/No (tape# ____

2886 - 2957

Segment(s): B46, B47
Date: 8-Jul-2011
Team: 1 & 2

Distributary Stream
SCAT Oiling Zones




Zones ABC
Zones A, B, C
7/8/2011
B15
B14
B13
B12
B11
B47
500 meters
Image USDA Farm Service Agency
©2010 Google
Imagery Date: 6/23/2009
1996
lat 45.721937° lon -108.595727° elev 973 m
Eye alt 3.43 km

DB/G/Sc E

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

1 GENERAL INFORMATION

Segment/Reach ID: B46 Left Bank / Right Bank / Island — AA 18 Oct

Operations Division: B

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

Date (dd/mm/yy): 15/07/11

Time (24h): std / daylight 0933 hrs to 1300 hrs

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

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

Air Temp + / - ____ deg C

2 SURVEY TEAM #

name	organization	contact phone number
John Williams / Connor Kobeski CK	Cardno ENTRIX	361·676·8130
Bob Nailon / Chuck Pons CP	Cardno ENTRIX	713·817·2469
Patrick Kriski / James Rogers JR	USCG	727·244·8292 415-320-5348
Courtney Tyree / Matt Ladd ML	MT FWP	406·860·7814

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

Start GPS: LATITUDE 45.71878° deg. ____ min. LONGITUDE -108.58595° deg. ____ min. Datum: WGS 84

End GPS: LATITUDE 45.71732° deg. ____ min. LONGITUDE -108.59154 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 2 m canyon____ manmade____ meander S confined or leveed____

Sloped: 0 (>5°)(15°)(30°) straight____ braided____ oxbow____ flood plain valley____

Substrate Type: VEGETATED

Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >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 / bankfull / 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 5 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)
197 A	P				120	20	85				P		P		R						DB/VG
198 B	P				490	95														P	
199 C	P				250	105	10				P		P		R						DB/VG
200 D	P				75	8	10				P		P		R						DB/VG
201 E	P																			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 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

Oil zone A: oiling on veg

Oil zone B: No oiling

Oil zone C: shoreline start: Lat: 45.71724 Long: 108.58755

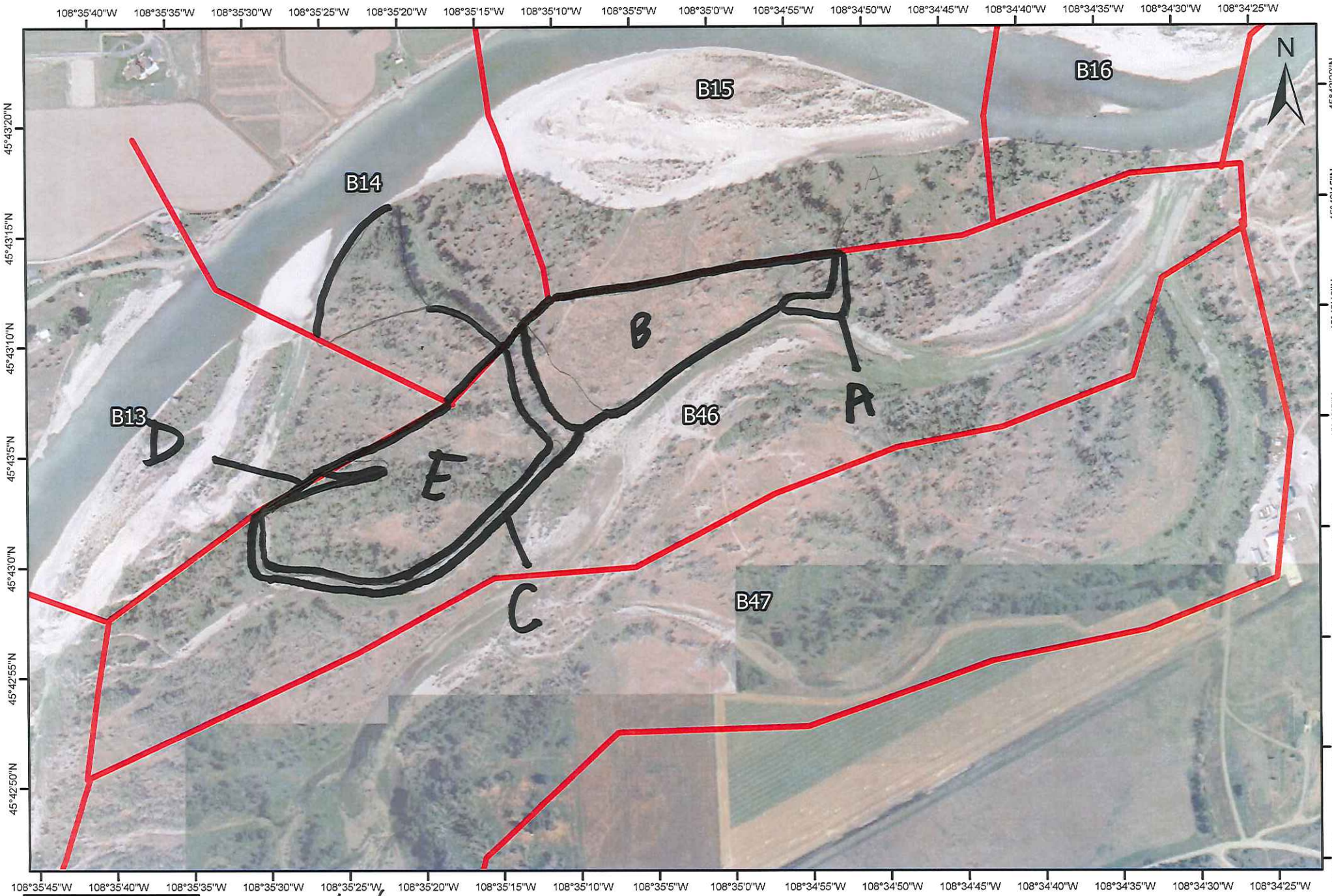
slough Lat: 41.71793 Long: 108.58917 STOP

Oil Zone D: oiling on debris; removal recommended

Oil Zone E: No oiling

(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#



B46 - (L/R/I)??

DATE: 15/07/11

TEAM: 4 & 5

COMMENTS:

0 80 160 240 320

Meters

DB/G/Sc

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B46 B — Left Bank / Right Bank / Island
Operations Division:
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____

Date (dd/mm/yy): 16/07/11

Time (24h): std / daylight: 1120 hrs to 1200 hrs

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

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

Air Temp + / - 27 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
John Williams / Connor Kobecki CK	Cardno ENTRIX	361-676-8138
Patrick Kriski	USCG	415-596-6587
Ken Frazier	MT FWP	406-245-0590

3 SEGMENT Total Segment/Reach Length 1800 m Segment/Reach Length Surveyed 430 m

Start GPS: LATITUDE N45° deg. 43.256' min. LONGITUDE W108° deg. 34.707' min. Datum: WGS84

End GPS: LATITUDE N45° deg. 43.158' min. LONGITUDE W108° deg. 34.816' 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

Cliff or Bluff: ____ Est Height 1 m | canyon____ manmade____ meander ____ confined or leveed ____

Sloped: O (>5°)(15°)(30°) | straight____ braided / oxbow____ flood plain valley____

complete for primary: Substrate Type: Vegetated

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)
248 A			S	P	430	30	1			P	S		P								Veg
249 B				P	430	120	D													P	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

Oil Zone A: No recommendations

Oil Zone B: No recommendations

(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/G/Sc

b

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION

Segment/Reach ID: B46 Left Bank / Right Bank / Island
Operations Division: B
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____
Date (dd/mm/yy): 16/07/11
Time (24h): std / deylight 1120 hrs to 1200 hrs
Sun / Clouds / Fog / Rain / Snow / Windy / Calm
Water Level: low - mean - bankfull - overbank; falling - steady - rising
Air Temp + / - 27 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
John Williams / Connor Kobeski	Cardno ENTRIX	361-676-8138
Patrick Kriski	USCG	415-596-6587
Ken Frazier Ken Frazier 8/29/11	MT FWP	406-245-0590

3 SEGMENT Total Segment/Reach Length 1800 m Segment/Reach Length Surveyed 430 m

Start GPS: LATITUDE N45° deg. 43.256' min. LONGITUDE W108° deg. 34.707' min. Datum: NAD84
End GPS: LATITUDE N45° deg. 43.158' min. LONGITUDE W108° deg. 34.816' 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 (P)

Cliff or Bluff: ____ Est Height 1 m canyon ____ manmade ____ meander ____ confined or leveed ____
Sloped: 0 (>5°)(15°)(30°) straight ____ braided / oxbow ____ flood plain valley ____
Substrate Type: Vegetated
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)
248 A			S	P	430	30	1			P	S		P								Veg
249 B				P	430	120	2													P	Veg

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

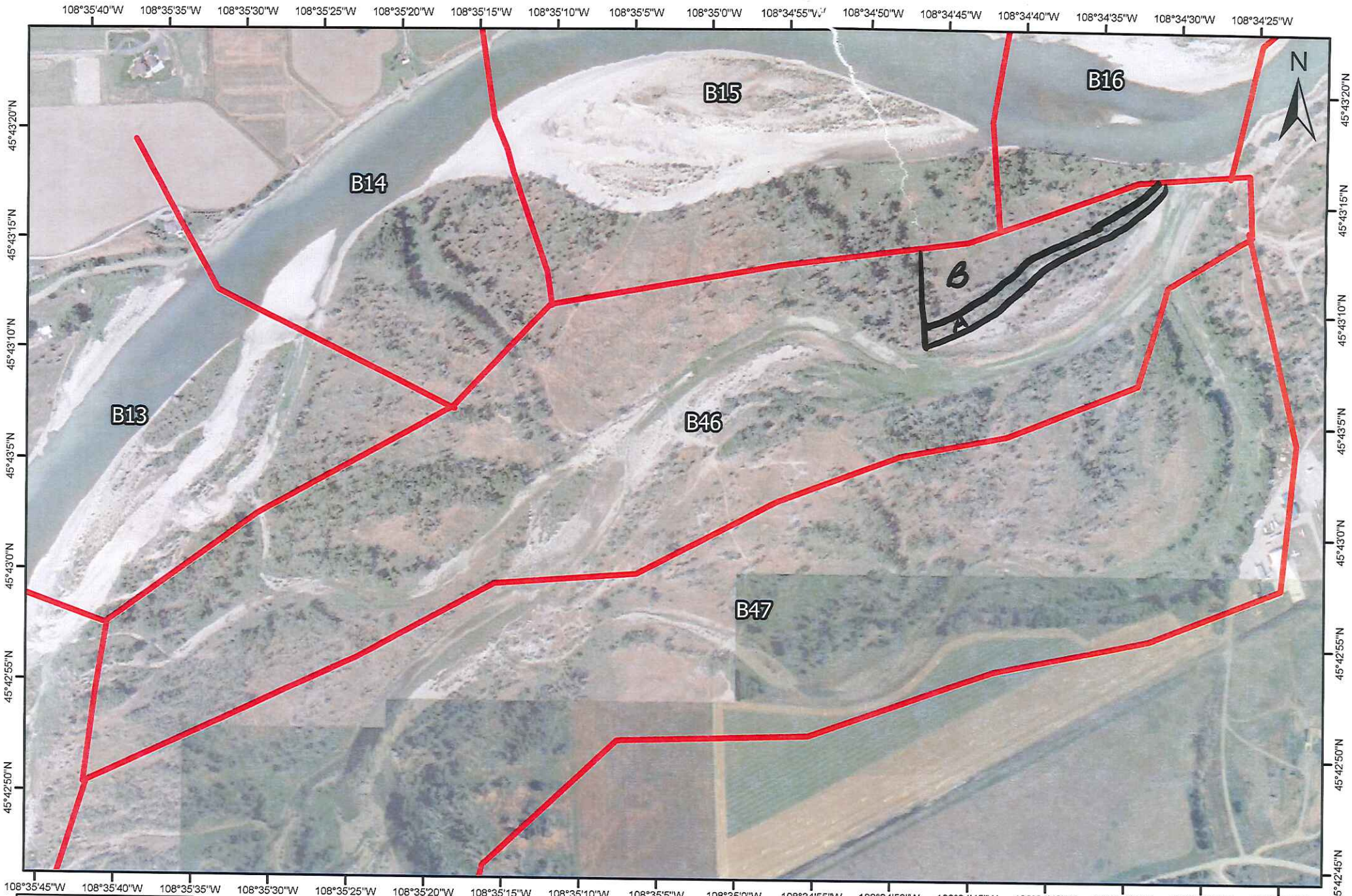
TRENCH or PIT NO.	RIVER BANK ZONE MS	LB	UB	OB	MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER SAP	OP	PP	OR	OF	TR	NO	WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)

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

Oil Zone A: No recommendations

Oil Zone B: No recommendations

(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#



B46 - R
(L/R/I)??

DATE: 16 Jul 2011

TEAM: 4

COMMENTS:

DB/G/Sc ⌐

RIVER BANK OILING SUMMARY FORM for __Silvertip Pipeline Incident__

1 GENERAL INFORMATION

Segment/Reach ID: B46 — Left Bank / (Right Bank) / Island

Operations Division: B

Date (dd/mm/yy): 16-07-11

Time (24h): std / daylight: 9:35 hrs to 10:46 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 +/- 25 deg C

2 SURVEY TEAM # 5

name	organization	contact phone number
Bob Nailor (signature)	Cardno ENTRIX	713-817-2469
Chuck Pons (signature)	Cardno ENTRIX	813-927-1194
Matt Ladd	Montana FWP	406-960-7808
Josh Rodgers	USCG	727-244-8292

3 SEGMENT — Total Segment/Reach Length 1720 m — Segment/Reach Length Surveyed 975 m

Start GPS: LATITUDE 45 deg. 42 min. LONGITUDE 108 deg. 35 min. Datum: WGS 84

End GPS: LATITUDE 45 deg. 42 min. LONGITUDE 108 deg. 35 min.

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

Bedrock: Cliff/Ramp ____ Shelf ____

Manmade: Solid ____ Permeable ____ (type) ____

Wetland: Swamp ____ Bog/Fen ____ Marsh ____

Sediment Bank: Clay/Mud ____ Sand P Mixed ____ Pebble/Cobble S Boulder ____ Peat/Organic ____

Vegetated Bank: (P) — Wooded Upland: S

Sediment Flat: Clay/Mud ____ Sand ____ Mixed/Coarse ____ — Other: ____

If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER — select as appropriate

Cliff or Bluff: ____ Est Height ____ m — Sloped: ____ (>5°)(15°)(30°)

canyon ____ manmade ____ meander ____ confined or leveed ____

straight ____ braided ____ oxbow P flood plain valley ____

complete for primary: Substrate Type: Vegetated — Forested / (Vegetated) / Bare

4C RIVER CHANNEL CHARACTER — circle or select as appropriate

est. width: <1m 1–10 m 10–100 m >100m 200 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 25 bags or ____ trucks

access restrictions: Small islands isolated by sloughs with loose woody 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 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)
250	A				/	330	15	10			S	P		/								veg
251	B		/	/	/	40	30	20	S		S	P		/								↓
252	C			/	/	80	40	50			S	P		/								↓
253	D			/	/	125	20	10			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 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

A- Sporadic staining and minimal coating along bank edge on veg. Few coated debris areas to be picked up and bagged. [illegible] MFWP GPS data show local.

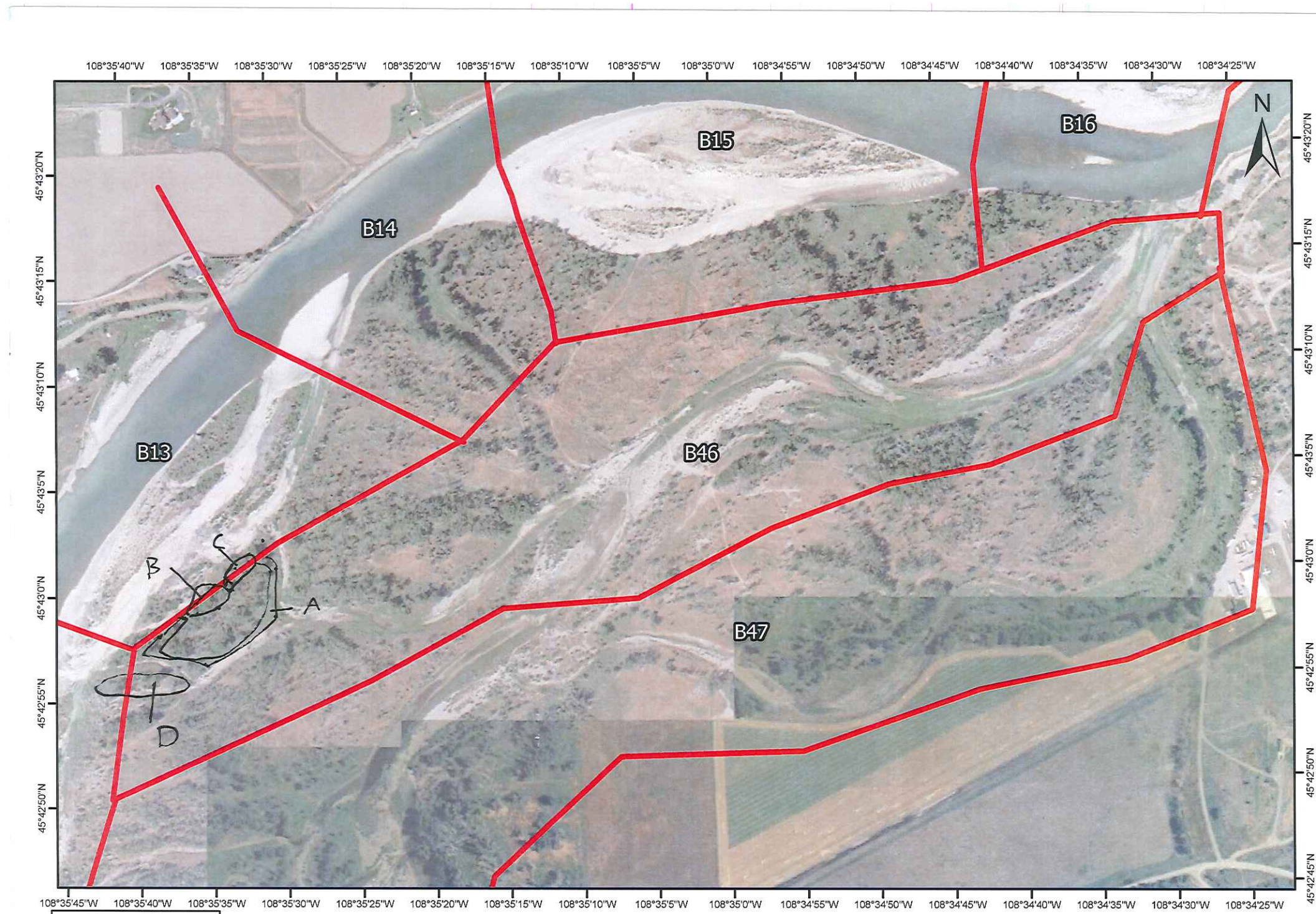
B- 40x30 m area [illegible] with patchy staining and some coating of debris + veg. Small am. of pooled oil mixed with debris, that needs to absorbed with pads.

C- Low OR area that has higher distribution of staining and minimal coating on veg + debris.

D- Small isolated island separated by sloughs with patch stained veg. and some small ams of coated debris to be picked up + bagged. Possible priority area at 4542.940 N 108 35.677 W.

(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# ____



B46 -
(L/R/I)??

DATE:

TEAM:

COMMENTS:

0 80 160 240 320
Meters

DB/G/Sc

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION			
Segment/Reach ID: B4b Left Bank / Right Bank / Island	Date (dd/mm/yy): 17-07-11	Time (24h): std / daylight: 0924 hrs to 1015 hrs	Water Level: 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 + / - 25 deg C

2 SURVEY TEAM # 5	name	organization	contact phone number
Bob Nailon	Bob Nailon	Cardno ENTRIX	(713) 817-2469
Chuck Pons	Chuck Pons	Cardno ENTRIX	(813) 927-1194
Matt Ladd	Matt Ladd	MFWP	(406) 860-7808
Josh Rogers	Josh Rogers	USCG	(727) 244-8292

3 SEGMENT Total Segment/Reach Length 160 m Segment/Reach Length Surveyed 160 m

Start GPS: LATITUDE 45.71532 °N deg. _____ min. LONGITUDE 108.59362 °W deg. _____ min. Datum: WGS84

End GPS: LATITUDE 45.42909 °N deg. _____ min. LONGITUDE 108.35.571 °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____ 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/Sand

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 1–10 m 10–100 m >100m 210 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 25 bags or ____ trucks | access restrictions Backshore restricted - access from river

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)
276 A				V	150	1	<1			P	S		V								Sand
277 B				V	200	5	10	S		P	S		V								Sand
278 C				V	100	20	5			P	S		V								Sand
279 D				V	150	90	20			P	S		V								Sand

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

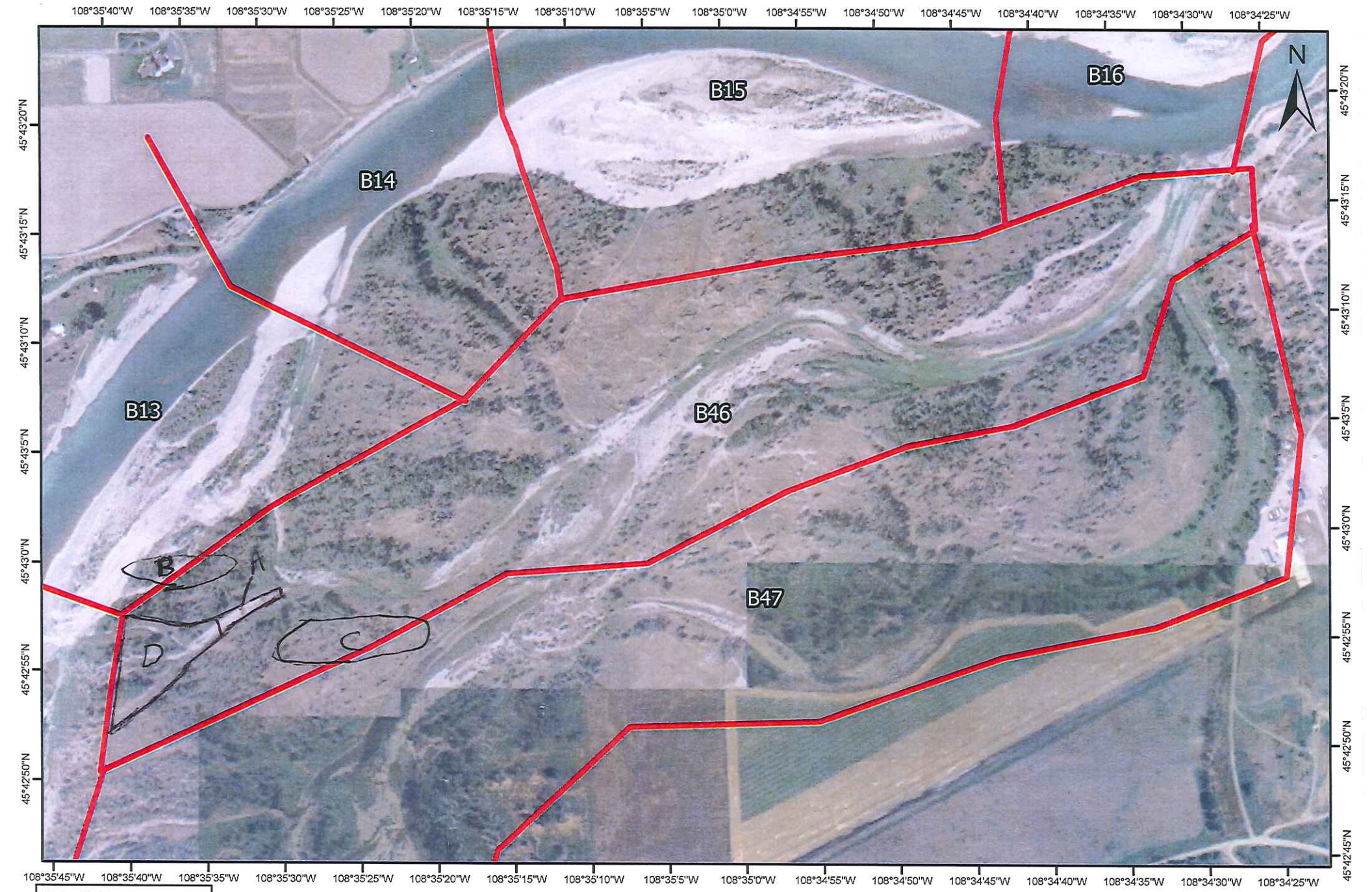
TRENCH or PIT NO.	RIVER BANK ZONE MS	LB	UB	OB	MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER SAP	OP	PP	OR	OF	TR	NO	WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)

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

Cleanup recommendations; Surgical cutting of oiled vegetation - Zones A, B, C One hot spot Zone B; 45° 42.909'N, 108° 35.517'W - will require pads; debris removal; potential surgical burn candidate site; Surgical cutting of sapling willows; debris removal that is oiled - D Zone in braided channels

(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#_____



B46 -

(L/R/I)??

DATE:

TEAM:

COMMENTS:

0 80 160 240 320

Meters

DB/G/Sc

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION

Segment/Reach ID: B4k Left Bank / (Right Bank) / Island
Operations Division: B
Survey by: (Foot) / ATV / Boat / Helicopter / Overlook / _____

Date (dd/mm/yy): 17/07/11

Time (24h): std / daylight: 0950 hrs to 1045 hrs

Water Level (CK 7/17/11): low - mean - (bankfull) - overbank; (falling) - steady - rising

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

Air Temp + / - 27 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
John Williams	Cardno ENTRIX	361 674 8138
Connor Kobeski	Cardno ENTRIX	847 922 5300
Patrick Kriske	USCG	415-324-5348
Ray Mulé	Dept. MT FWP	406-247-2960

3 SEGMENT

Total Segment/Reach Length 1770 m Segment/Reach Length Surveyed 670 m

Start GPS: LATITUDE N 45° deg. 42.916' min. LONGITUDE W 108° deg. 35.599' min. Datum: WGS 84

End GPS: LATITUDE N 45° deg. 43.027' min. LONGITUDE W 108° deg. 35.222 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_____ 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

Cliff or Bluff: ___ Est Height ____m
Sloped: 0 (>5°)(15°)(30°)
canyon_____ manmade___ meander ___ confined or leveed _____
straight_____ braided ___ oxbow_____ flood plain valley_____

complete for primary
Substrate Type: Vegetated
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

Debris (Y) / N oiled (Y) N amount ✓ bags or _____trucks
Oiled trees/shrubs (Y) N
Suitable backshore staging (Y) N
River Current strong (Y) N
Access: Direct from backshore (Y) / N Alongshore from next segment (Y) / N
access restrictions
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 (JW 7/17/11) FR	MS	TB	PT	TC	SR	AP	NO	SUBST. TYPE(S)
272 A			S	P	580	5	<1			P	S		RS				P				Veg
273 B				P	430	80	0													P	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

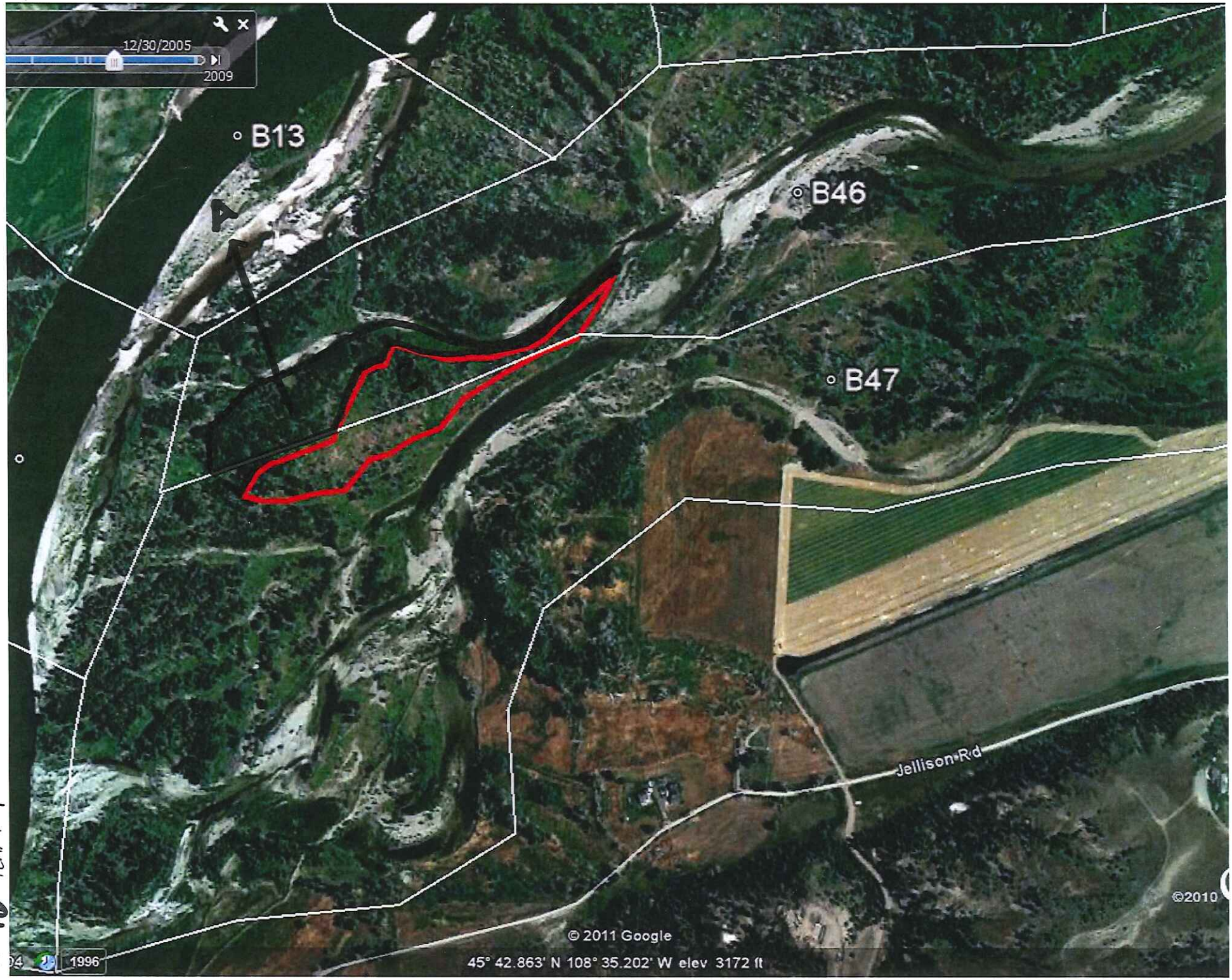
Recommendations for oiling Zone A: cutting of vegetated shorelines/overbank and removal of dead oiled vegetation and small oiled debris. Sorbent pads for fresh oil on water at: N 45° 42.944'; W 108° 35.496'. Entire zone should be surveyed by ops team for treatment — flagged hotspots are only guides to areas of concern.

Zones A+B: Recommendation Zone B: No oiling observed — no treatment recommended.

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

CK 7/17/11

Sketch Yes/No Photos Yes/No (Roll # N/A Frames NA) Video Tape Yes/No (tape#



B46 DATE: 11 JUL 2011
TEAM: 4

ARCADIS

Appendix C

Pre-Inspection Survey Transmittal

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 08/27/11

Segment: B-46 RB

Team:

RP SCAT Liaison Pete Pritchard Signed:

RP SCAT Liaison David Oge Signed:

RP SCAT Liaison Herbert Wood Signed:

RP SCAT Liaison Gary Reiter Signed:

EPA SCAT Liaison JoAnn Eskelsen Signed:

Segment meets criteria? YES X NO

RBOS attached? YES NO X

If NO:

Location Sketch attached? YES NO X

CTR continue? YES NO X

Comments:

ARCADIS

Appendix D

Post-Inspection Survey Transmittal

ARCADIS

A Post-Inspection Survey was not conducted for this area

ARCADIS

Appendix E

Final SCAT Survey Forms and Sketches

DB16

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: B46 Left Bank / (Right Bank) / Island	29/08/11	08:30 hrs to 12:30 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 + / - 30 deg C

2 SURVEY TEAM # 3	Name	Organization	Signature
	Chuck Pons	Cardno Entrix	Chuck Pons
	Nathan Hammond	Cardno Entrix	Nathan Hammond
	Dave Hergenrider	FWP	Dave Hergenrider
	Terry Tanner	EPA	
	Mark Peterson	DEQ	Mark Peterson

3 SEGMENT Total Segment/Reach Length 1770 m Segment/Reach Length Surveyed 1770 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_X_ 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: _____

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) ~~100m~~ 200

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 3 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 Length m	Width m	Distrib. %	OIL THICKNESS					OIL CHARACTER								SUBST. TYPE(S)
	MS	LB	UB	OB				TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP	NO	
1949 A				P	320	200	<1			S	P						X				Veg, Debris
1950 B				P	445	250	0													✓	
1951 C				P	1005	300	<1			S	P						X				Veg, 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

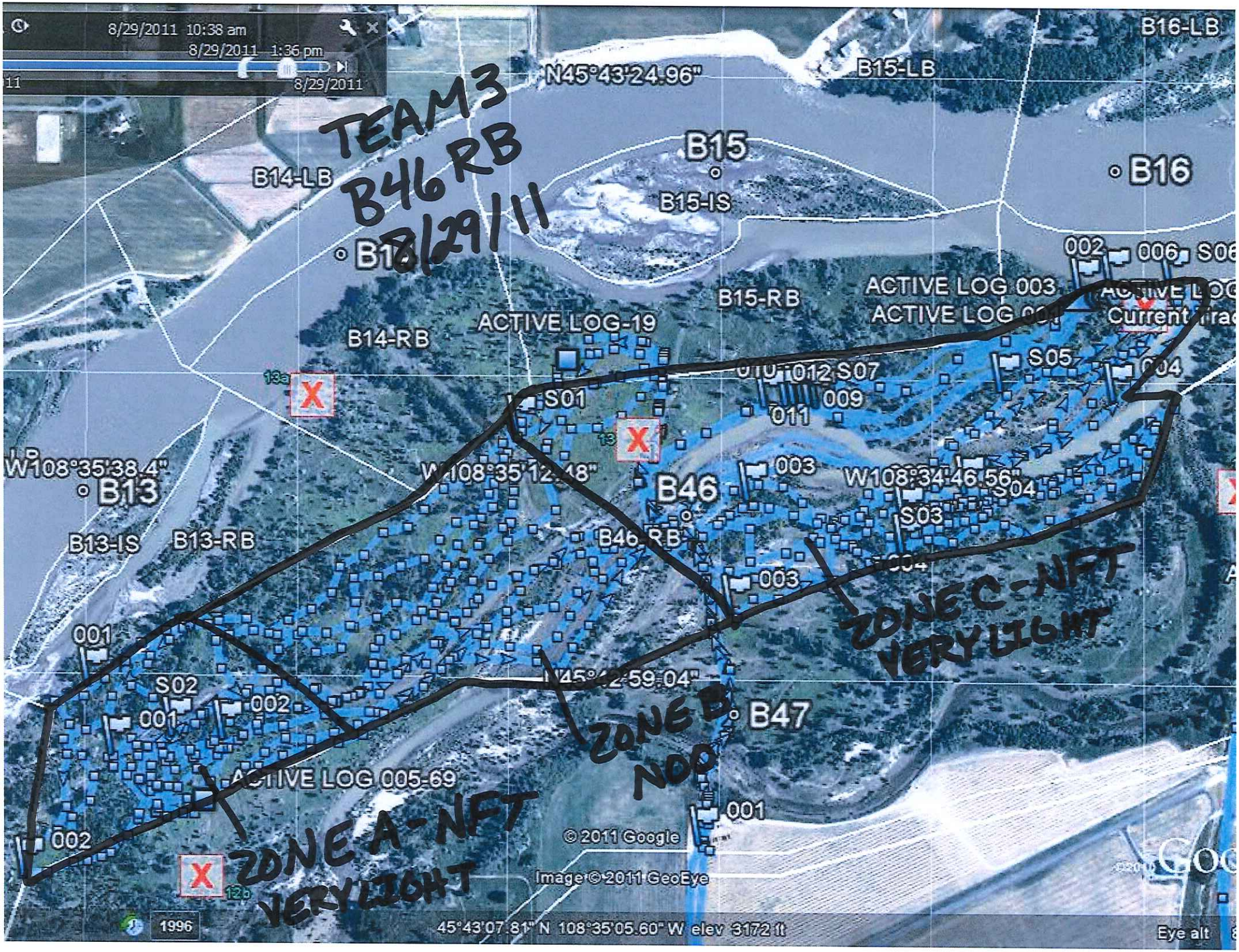
Zone A - Utilized ATM 1 & ATM 2 w/ hot shot crew; reSCAT after cleaning verified area clean. NFT recommended.

Zone B - NOO; NFT

Zone C - Utilized ATM 1 & ATM 2 with Hot Shot Crew; reSCAT after cleaning verified area clean; NFT recommended

ReSCAT

Sketch (Yes) / No Photos (Yes) / No Frames_____ Photographer_____


8/29/2011 10:38 am
8/29/2011 1:36 pm
8/29/2011
TEAM 3
B46 RB
8/29/11
N45°43'24.96"
B16-LB
B15-LB
B15
B15-IS
B16
B14-LB
B14
B15-RB
ACTIVE LOG 003
ACTIVE LOG-19
B14-RB
002
006
S06
S05
S07
009
011
S01
W108°35'38.4"
B13
B46
003
W108°34'46.56"
S04
S03
B13-IS
B13-RB
B46 RB
ZONE C-NFT
VERY LIGHT
001
S02
002
B47
ZONE B
NOD
ACTIVE LOG 005-69
ZONE A-NFT
VERY LIGHT
© 2011 Google
Image © 2011 GeoEye
1996
45°43'07.81" N 108°35'05.60" W elev 3172 ft
Eye alt

ARCADIS

Appendix F

Completed SCAT Segment Sign-Off Forms

SCAT Segment Operations Completion Sign-Off Sheet

Silvertip Pipeline Release

Segment B46 RB Date of Survey 8-29-2011

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

CTR(s) Associated with SCAT Segment 8

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	8/29/11

Federal Representative (EPA/USCG)

Sign Name	Print Name/ Affiliation	Date
Dave Hergenrider	Dave Hergenrider	8/29/2011

State Representative (DEQ/FWP)

Sign Name	Print Name/ Affiliation	Date
	Charles Pons/Cardno ENTRIX	8-29-11

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.