

ExxonMobil Pipeline Company

**SCAT Area Transition Report
for A11**

Silvertip Pipeline Incident
Laurel, Montana

October 18, 2011



SCAT Area Transition Report for A11

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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

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1. Executive Summary of Oil Removal Activities

This Shoreline Cleanup Assessment Technique (SCAT) Area Transition Report provides a summary of the SCAT surveys conducted to determine the extent of oiling along the riverbanks and floodplain within SCAT Area A11, 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 A11. 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 A11, 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 A11 is 17.5. There were no access issues for this area.

1.2 Cultural, Historic, and Natural Resource Constraints

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

Figure 2 summarizes the natural resources identified in this segment. International Bird Rescue and Resource Advisors from U.S. Fish and Wildlife Service conducted regular inspections of Area A11. Seven oiled Woodhouse's toads (*Bufo woodhousii*) and one western terrestrial garter snake (*Thamnophis elegans*) were captured, cleaned, and released. In addition, three Woodhouse's toads were captured and taken to the Wildlife Recovery Center for an oiling evaluation, determined to be un-oiled, and subsequently released. One America white pelican (*Pelecanus erythrorhynchos*) with heavy oiling was observed but could not be captured. One song sparrow (*Melospiza melodia*) with light oiling was identified and monitored; capture was not deemed necessary. No Wildlife Priority Cleanup Areas were identified. No active migratory bird nests were identified in Area A11.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area A11. 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 A11 are provided on Figure 3.

Table 1 Environmental Sampling Summary

| Agency | Sample Num | Date | Matrix | Location | Latitude | Longitude |
|------------|----------------|-----------|---------------|----------|------------|--------------|
| Z8DY_CTEH | BIMT082550502 | 25-Aug-11 | Soil_River | 50-A11R | 45.650048 | -108.715532 |
| Z8DY_CTEH | BIMT082550503 | 25-Aug-11 | Soil_River | 50-A11R | 45.650048 | -108.715532 |
| Z8DY_CTEH | BIMT082550515 | 25-Aug-11 | Soil_River | 50-A11L | 45.649652 | -108.716528 |
| Z8DY_CTEH | LAMT07235W503 | 23-Jul-11 | Water_Surface | CFBG01 | 45.647924 | -108.717072 |
| Z8DY_CTEH | LAMT07235W503 | 23-Jul-11 | Water_Surface | CFBG01 | 45.648728 | -108.716695 |
| Z8DY_CTEH | LAMT07245W504 | 24-Jul-11 | Water_Surface | CFBG01 | 45.647924 | -108.717072 |
| Z8DY_CTEH | LAMT07245W504 | 24-Jul-11 | Water_Surface | CFBG01 | 45.648728 | -108.716695 |
| Z8DY_CTEH | LAMT07255W601 | 25-Jul-11 | Water_Surface | CFBG01 | 45.647924 | -108.717072 |
| Z8DY_CTEH | LAMT07255W601 | 25-Jul-11 | Water_Surface | CFBG01 | 45.648728 | -108.716695 |
| Z8DY_CTEH | LAMT08245E403 | 24-Aug-11 | Sediment | CFBG01 | 45.647924 | -108.717072 |
| Z8DY_CTEH | LAMT08245E403 | 24-Aug-11 | Sediment | CFBG01 | 45.648728 | -108.716695 |
| Z8DY_CTEH | LAMT08255E403 | 25-Aug-11 | Sediment | A11 | 45.650279 | -108.71468 |
| Z8DY_START | SP5E107_071211 | 12-Jul-11 | Sediment | SP5E107 | 45.6481488 | -108.7171908 |

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 ten exceedances: four for selenium; three for vanadium; and one each for total extractable hydrocarbons, arsenic, and o-xylenes.

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 A11 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area A11.

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. 4](#) and [CTR No. 6](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area A11 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 A11 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the left bank within Area A11, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

A Post-Inspection Survey Transmittal (POST) was conducted for the left bank of Area A11, which is presented in Appendix D. The POST indicates that A11-LB meets the approved treatment methods target endpoints and is signed by MDEQ, USEPA, and a SCAT liaison. This serves as the SCAT Segment Sign-Off Form for the left bank.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area A11 following completion of oil removal activities. The SCAT team performed final surveys of the left and right banks within SCAT Area A11 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 and right banks within Area A11, no further treatment is recommended for these areas. Based on the initial SCAT surveys, no oiling was observed on the island of Area A11. A SCAT Segment Sign-Off Form for the right bank is included as Appendix F.



**SCAT Area Transition
Report for A11**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for A11

Prepared for:

Unified Command

Date

Unified Command – RP



SCAT Area Transition
Report for A11

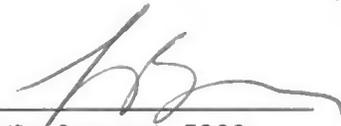
Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for A11

Prepared for:

Unified Command

10/10/2011
Date


Unified Command – FOSC

S. WEAVER



**SCAT Area Transition
Report for A11**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for A11

Prepared for:

Unified Command

Date

Unified Command – MDEQ

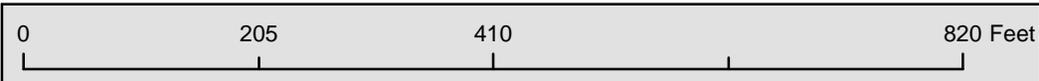


Figure 1

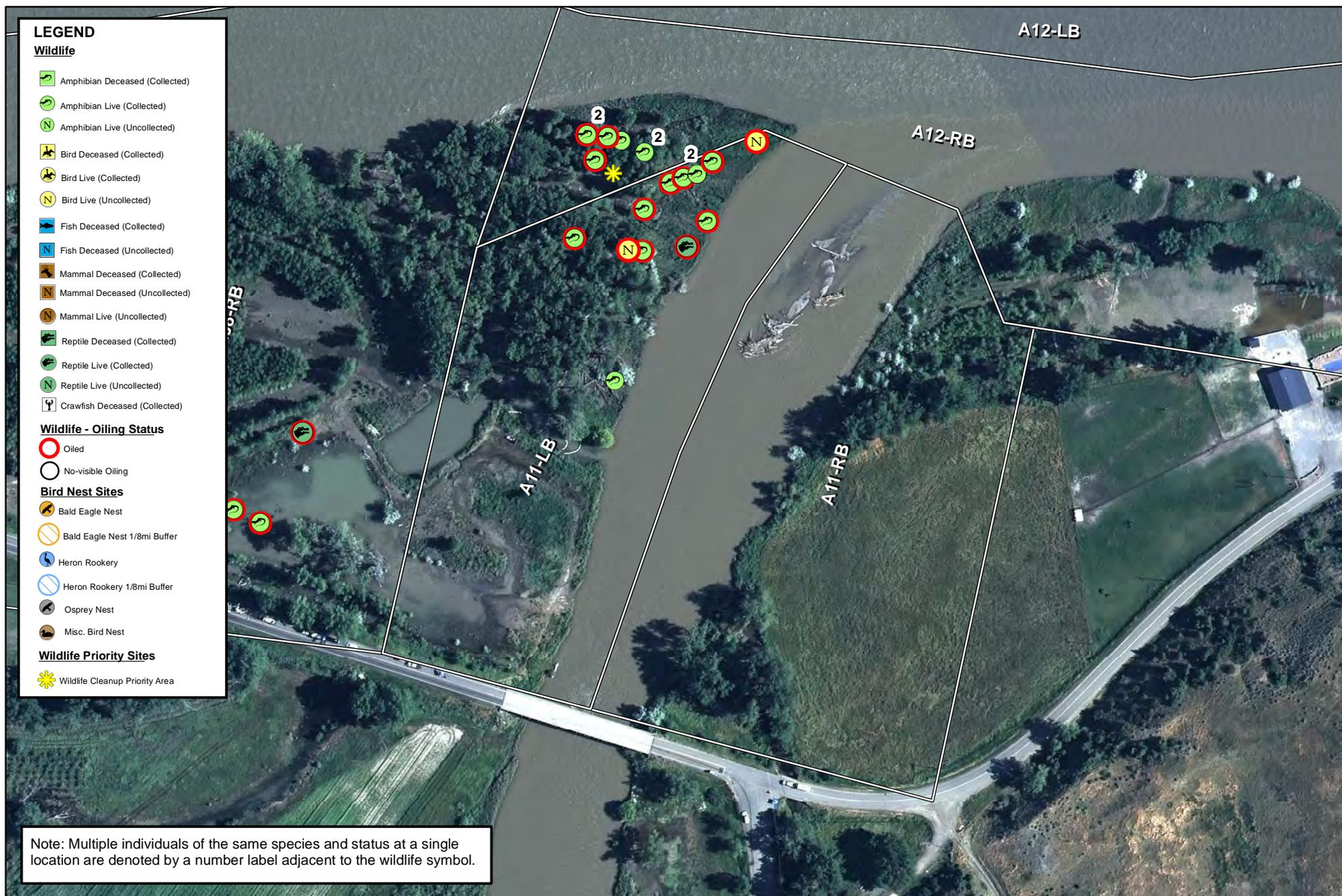
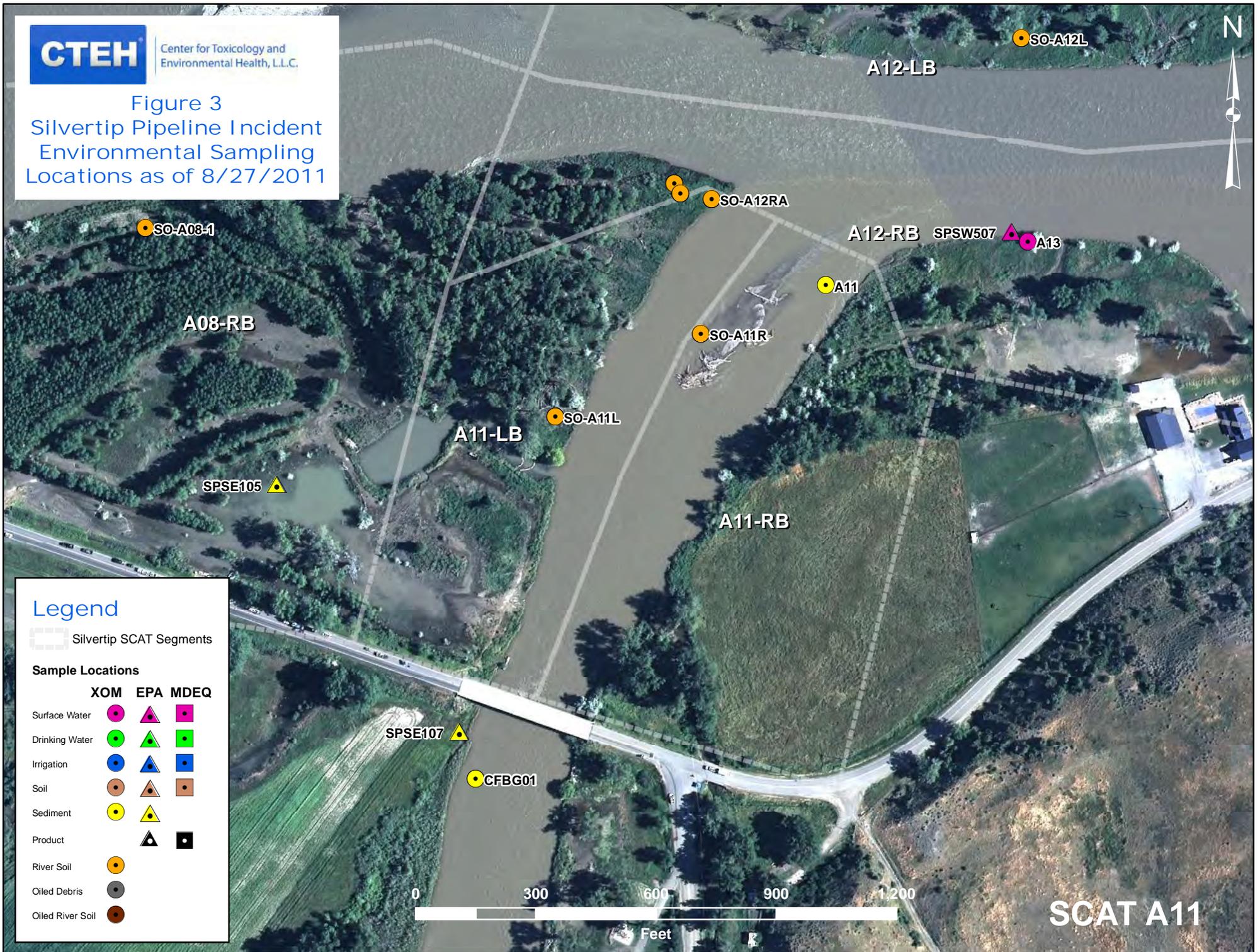


Figure 2
Wildlife Resources



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

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



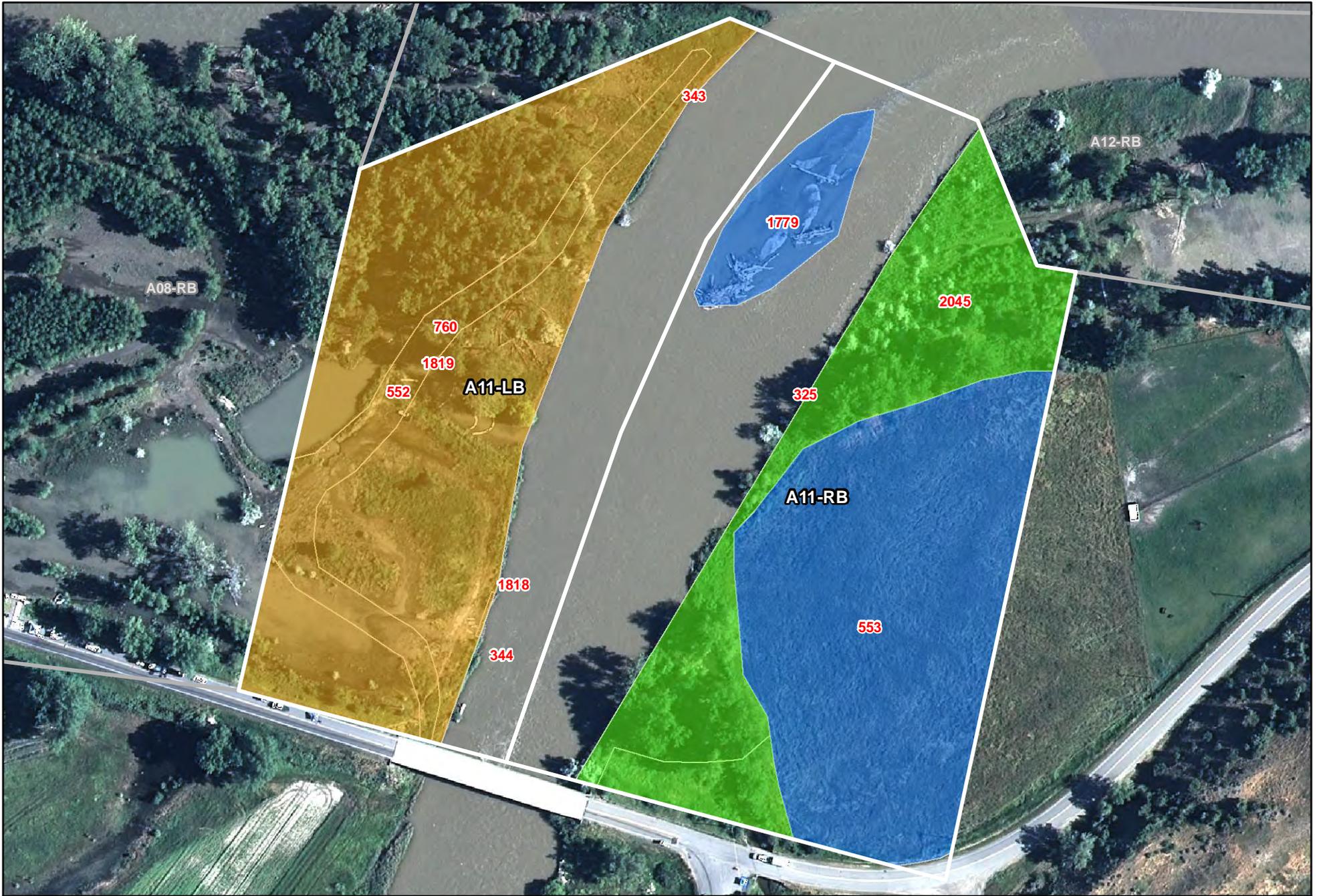
Legend

Silvertip SCAT Segments

Sample Locations

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

SCAT A11

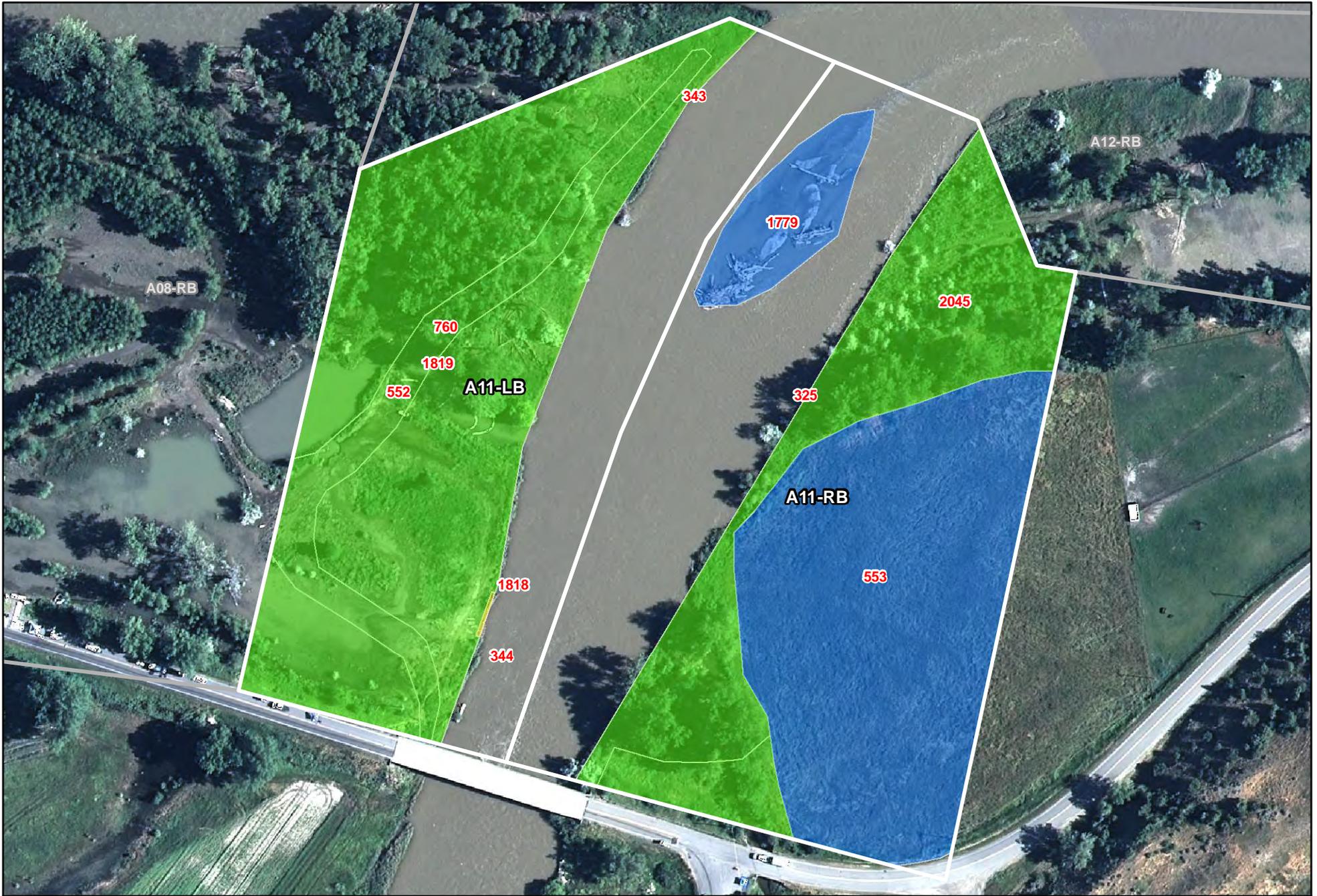


- 9999 Oiling Zone ID
- Heavy Oiling
- Moderate Oiling

- Light Oiling
- Very Light Oiling
- No Oil Observed

Figure 4 - Maximum SCAT Observations
For SCAT Area: A11





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

Figure 5 - Final SCAT Observations
For SCAT Area: A11



Appendix A

Sample Detections Summary



Detections in Samples Collected in SCAT Area A11

NA - Not Available

Detected Above Screening Level

| Sample Num | Date | Sample Type | Matrix | Analytical Method | Analyte | Detected | Result | Screening Level | Result Qualifier | Units | Above? |
|---------------|------------|-------------|------------|-------------------|--------------------------------|----------|--------|-----------------|------------------|-------|--------|
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | MADEP VPH | Aliphatic (C09-C12), Adjusted | Y | 11.8 | 100 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | MADEP VPH | Aliphatic (C09-C12).Unadjusted | Y | 27.1 | 100 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | MADEP VPH | Aromatic (C09-C10) | Y | 15.1 | 100 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Arsenic | Y | 2.8 | 40 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Barium | Y | 152 | 820 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Cadmium | Y | 0.13 | 3.8 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Chromium | Y | 23.9 | 280 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Lead | Y | 22.8 | 400 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 9060 | Mean Total Organic Carbon | Y | 6250 | NA | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Nickel | Y | 19.2 | 150 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | MADEP VPH | o-Xylene | Y | 0.13 | 70 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 9060 | RSD% | Y | 6.3 | NA | | % | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Selenium | Y | 2.9 | 2.6 | | mg/kg | YES |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 9060 | Total Organic Carbon | Y | 6670 | NA | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | MADEP VPH | Total Purgeable Hydro Carbons | Y | 38.5 | 200 | | mg/kg | no |
| BIMT0825SO502 | 08/25/2011 | Field | Soil_River | EPA 6010 | Vanadium | Y | 57.4 | 39 | | mg/kg | YES |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Arsenic | Y | 4.1 | 40 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Barium | Y | 160 | 820 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Cadmium | Y | 0.12 | 3.8 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Chromium | Y | 25.4 | 280 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Lead | Y | 24.2 | 400 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 9060 | Mean Total Organic Carbon | Y | 7140 | NA | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Nickel | Y | 20 | 150 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 9060 | RSD% | Y | 11.5 | NA | | % | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Selenium | Y | 2.7 | 2.6 | | mg/kg | YES |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | MADEP EPH | Total Extractable Hydrocarbons | Y | 15.3 | 200 | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 9060 | Total Organic Carbon | Y | 8150 | NA | | mg/kg | no |
| BIMT0825SO503 | 08/25/2011 | Field | Soil_River | EPA 6010 | Vanadium | Y | 61.4 | 39 | | mg/kg | YES |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | MADEP EPH | Aliphatic (C09-C18) | Y | 67.9 | 200 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | MADEP EPH | Aliphatic (C19-C36) | Y | 194 | 20000 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | MADEP EPH | Aromatic (C11-22) | Y | 269 | 400 | | mg/kg | no |



Detections in Samples Collected in SCAT Area A11

NA - Not Available

Detected Above Screening Level

| Sample Num | Date | Sample Type | Matrix | Analytical Method | Analyte | Detected | Result | Screening Level | Result Qualifier | Units | Above? |
|---------------|------------|-------------|---------------|-------------------|--------------------------------|----------|------------|-----------------|------------------|-------|--------|
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Arsenic | Y | 14.4 | 40 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Barium | Y | 199 | 820 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Cadmium | Y | 0.43 | 3.8 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Chromium | Y | 33.1 | 280 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 8270 by SIM | Chrysene | Y | 33.1 | 20000 | | ug/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Lead | Y | 27.9 | 400 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 9060 | Mean Total Organic Carbon | Y | 13600 | NA | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 7471 | Mercury | Y | 0.046 | 1 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Nickel | Y | 26.9 | 150 | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 9060 | RSD% | Y | 13.4 | NA | | % | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Selenium | Y | 3.7 | 2.6 | | mg/kg | YES |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | MADEP EPH | Total Extractable Hydrocarbons | Y | 883 | 200 | | mg/kg | YES |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 9060 | Total Organic Carbon | Y | 15400 | NA | | mg/kg | no |
| BIMT0825SO515 | 08/25/2011 | Field | Soil_River | EPA 6010 | Vanadium | Y | 58.1 | 39 | | mg/kg | YES |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Arsenic | Y | 1.1 | 10 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Barium | Y | 73.2 | 1000 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Calcium | Y | 27700 | NA | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Chromium | Y | 3.6 | 100 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Lead | Y | 2.8 | 15 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Magnesium | Y | 8980 | NA | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 1631E | Mercury | Y | 0.00000294 | 0.00005 | | mg/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Nickel | Y | 6.7 | 100 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Potassium | Y | 1650 | NA | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Selenium | Y | 0.51 | 5 | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Sodium | Y | 8760 | NA | | ug/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | SM 2540D | Total Suspended Solids | Y | 154 | NA | | mg/L | no |
| LAMT0723SW503 | 07/23/2011 | Field | Water_Surface | EPA 6020 | Vanadium | Y | 8.6 | 180 | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Arsenic | Y | 0.72 | 10 | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Barium | Y | 50 | 1000 | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Calcium | Y | 24200 | NA | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Chromium | Y | 2.4 | 100 | | ug/L | no |



Detections in Samples Collected in SCAT Area A11

NA - Not Available

Detected Above Screening Level

| Sample Num | Date | Sample Type | Matrix | Analytical Method | Analyte | Detected | Result | Screening Level | Result Qualifier | Units | Above? |
|---------------|------------|-------------|---------------|-------------------|---------------------------|----------|------------|-----------------|------------------|-------|--------|
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Lead | Y | 1.6 | 15 | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Magnesium | Y | 7360 | NA | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 1631E | Mercury | Y | 0.00000322 | 0.00005 | | mg/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Nickel | Y | 3.5 | 100 | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Potassium | Y | 1340 | NA | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Sodium | Y | 8810 | NA | | ug/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | SM 2540D | Total Suspended Solids | Y | 133 | NA | | mg/L | no |
| LAMT0724SW504 | 07/24/2011 | Field | Water_Surface | EPA 6020 | Vanadium | Y | 5.9 | 180 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Arsenic | Y | 0.67 | 10 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Barium | Y | 39.4 | 1000 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Calcium | Y | 23800 | NA | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Chromium | Y | 1.1 | 100 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Lead | Y | 1.1 | 15 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Magnesium | Y | 7000 | NA | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 1631E | Mercury | Y | 0.00000422 | 0.00005 | | mg/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Nickel | Y | 2.5 | 100 | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Potassium | Y | 1320 | NA | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Sodium | Y | 8820 | NA | | ug/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | SM 2540D | Total Suspended Solids | Y | 123 | NA | | mg/L | no |
| LAMT0725SW601 | 07/25/2011 | Field | Water_Surface | EPA 6020 | Vanadium | Y | 3.9 | 180 | | ug/L | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Arsenic | Y | 11 | 9.8 | | mg/kg | YES |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Barium | Y | 115 | NA | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Cadmium | Y | 0.85 | 0.99 | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Chromium | Y | 16.4 | 43.4 | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Lead | Y | 7.2 | 35.8 | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 9060 | Mean Total Organic Carbon | Y | 4790 | NA | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Nickel | Y | 13.3 | 22.7 | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 9060 | RSD% | Y | 29.2 | NA | | % | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 9060 | Total Organic Carbon | Y | 6860 | NA | | mg/kg | no |
| LAMT0824SE403 | 08/24/2011 | Field | Sediment | EPA 6010 | Vanadium | Y | 37.7 | NA | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Arsenic | Y | 2.2 | 9.8 | | mg/kg | no |



Detections in Samples Collected in SCAT Area A11

NA - Not Available

Detected Above Screening Level

| Sample Num | Date | Sample Type | Matrix | Analytical Method | Analyte | Detected | Result | Screening Level | Result Qualifier | Units | Above? |
|---------------|------------|-------------|----------|-------------------|---------------------------|----------|--------|-----------------|------------------|-------|--------|
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Barium | Y | 136 | NA | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Cadmium | Y | 0.11 | 0.99 | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Chromium | Y | 17.4 | 43.4 | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Lead | Y | 18.8 | 35.8 | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 9060 | Mean Total Organic Carbon | Y | 11000 | NA | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Nickel | Y | 14.1 | 22.7 | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | MADEP VPH | o-Xylene | Y | 0.09 | 0.0252 | | mg/kg | YES |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 9060 | RSD% | Y | 50.2 | NA | | % | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Selenium | Y | 2.5 | 2 | | mg/kg | YES |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 9060 | Total Organic Carbon | Y | 16900 | NA | | mg/kg | no |
| LAMT0825SE403 | 08/25/2011 | Field | Sediment | EPA 6010 | Vanadium | Y | 47.6 | NA | | mg/kg | no |



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/G

RIVER BANK OILING SUMMARY FORM for **Silvertip Pipeline Incident**

| | | | | |
|---|--|--|--|--|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) 18-Jul-2011 | Time (24h): std / daylight 1025 hrs to 1026 hrs | Water Level low - mean - <u>bankfull</u> - overbank <u>falling</u> - steady - rising |
| Segment/Reach ID: A11 Left Bank / <u>Right Bank</u> / Island | | | | |
| Operations Division: A | | | | |
| Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____ | | <u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm | | Air Temp + / - <u>32</u> deg C |

| | | | |
|----------------------------------|------|--------------|----------------------|
| 2 SURVEY TEAM # 1 & 2 | name | organization | contact phone number |
| Andrew Milanes | | Polaris | |
| Bruce Kvam | | Polaris | |
| Pete Lee | | Polaris | |
| Andy Johnson | | USCG | |
| Travis Olson | | USCG | |
| Aaron Anderson | | MTDEQ | |
| Larry Elheim | | MTDEQ | |

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 285 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) 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 1-10m 10-100m >100m 160m est. water depth: <1m 1-3m 3-10m >10m _____ m

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

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

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

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

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

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

| 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 | | 285 | 1 | | | | | | | | | | | | | | X | Grass, trees | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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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 |
| | | | | | | | | | | | | | | | | | |
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8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Treatment Recommendations:
 Zone A: No oil observed along the shoreline. No treatment required along shoreline.

Sketch Yes / No Photos Yes / No Frames _____



SCAT Teams 1 & 2 Survey

Segment A11 - Right Bank

18 July 2011



Legend

- Segment Boundaries
- ↔ Oiling Zones

0016

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

| | | | | |
|--|--|---|------------------------------------|----------------------------------|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) | Time (24h): std / daylight | Water Level |
| Segment/Reach ID: <u>A12A1</u> Left Bank / (Right Bank) / Island | | <u>23/07/11</u> | <u>1033</u> hrs to <u>1055</u> hrs | low - mean - bankfull - overbank |
| Operations Division: <u>A</u> | | | | falling - steady - rising |
| Survey by: (Foot) ATV / Boat / Helicopter / Overlook / | | (Sun) Clouds / Fog / Rain / Snow / Windy / Calm | | Air Temp + / - <u>05</u> deg C |

| 2 SURVEY TEAM # <u>10</u> | Name | Organization | Signature |
|---------------------------|-----------------------|----------------------|--------------------|
| | <u>Chelsea Murphy</u> | <u>Cardno ENTRIX</u> | <u>[Signature]</u> |
| | <u>Danach Thomas</u> | <u>MT DEP</u> | <u>[Signature]</u> |
| | <u>Steve Kennedy</u> | <u>Cardno Entrix</u> | <u>[Signature]</u> |
| | <u>Ron Lynn</u> | <u>USCG</u> | <u>[Signature]</u> |

3 SEGMENT Total Segment/Reach Length ~200 m Segment/Reach Length Surveyed ~200 m

Start GPS: LATITUDE 45.650362 deg. min. LONGITUDE 100.714296 deg. min. Datum: NAD 83

End GPS: LATITUDE 45.650144 deg. min. LONGITUDE 100.711574 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 S 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:

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 S confined or leveed Substrate Type: mud

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m 100 >100m 160m est. water depth: <1m 1-3m 3-10 >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 Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris: Y/(N) oiled Y/(N) amount bags or trucks access restrictions Private property

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 | | | | | <u>200</u> | <u>35</u> | <u>φ</u> | | | | | | | | | | | | | | <u>P</u> | <u>veg</u> |

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

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

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 recommendations - NOO - NFT

- Recommended re-SCAT w/ boat along shoreline.

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

108°43'5"W

108°43'0"W

108°42'55"W

108°42'50"W

108°42'45"W



45°39'0"N

45°38'55"N



A11

ZONE A

WALLS

108°43'5"W

108°43'0"W

108°42'55"W

108°42'50"W

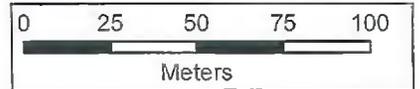
108°42'45"W

A11 -
(L/R/I)??

DATE:

TEAM:

COMMENTS:



DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

| | | | | |
|---|--|-----------------|------------------------------------|----------------------------------|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) | Time (24h): std / daylight | Water Level |
| Segment/Reach ID: <u>All</u> | Left Bank / Right Bank / <u>Island</u> | <u>22/08/11</u> | <u>9:30</u> hrs to <u>9:45</u> hrs | low - mean - bankfull - overbank |
| Operations Division: <u>A</u> | <u>OK 2/2/11</u> | | | <u>falling</u> - steady - rising |
| Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u> | <u>Sur /</u> Clouds / Fog / Rain / Snow / Windy / Calm | | | Air Temp + / - ___ deg C |

| | | | |
|---------------------------------|--------------------------|----------------|--------------------------|
| 2 SURVEY TEAM # <u>3</u> | Name | Organization | Signature |
| | <u>Todd Farrar</u> | <u>Polaris</u> | <u>Todd Farrar</u> |
| | <u>Rachelle Thompson</u> | <u>EPA</u> | <u>Rachelle Thompson</u> |
| | <u>Jay Watson</u> | <u>FWP</u> | <u>Jay Watson</u> |

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 91 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 _____ Pebble/Cobble P Boulder _____ Peat/Organic _____ Vegetated Bank: _____ Wooded Upland: _____

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

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

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

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

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

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 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 779 A | | <u>X</u> | | | <u>91</u> | <u>25</u> | | | | | | | | | | | | | | | <u>X</u> | <u>Cobble</u> |

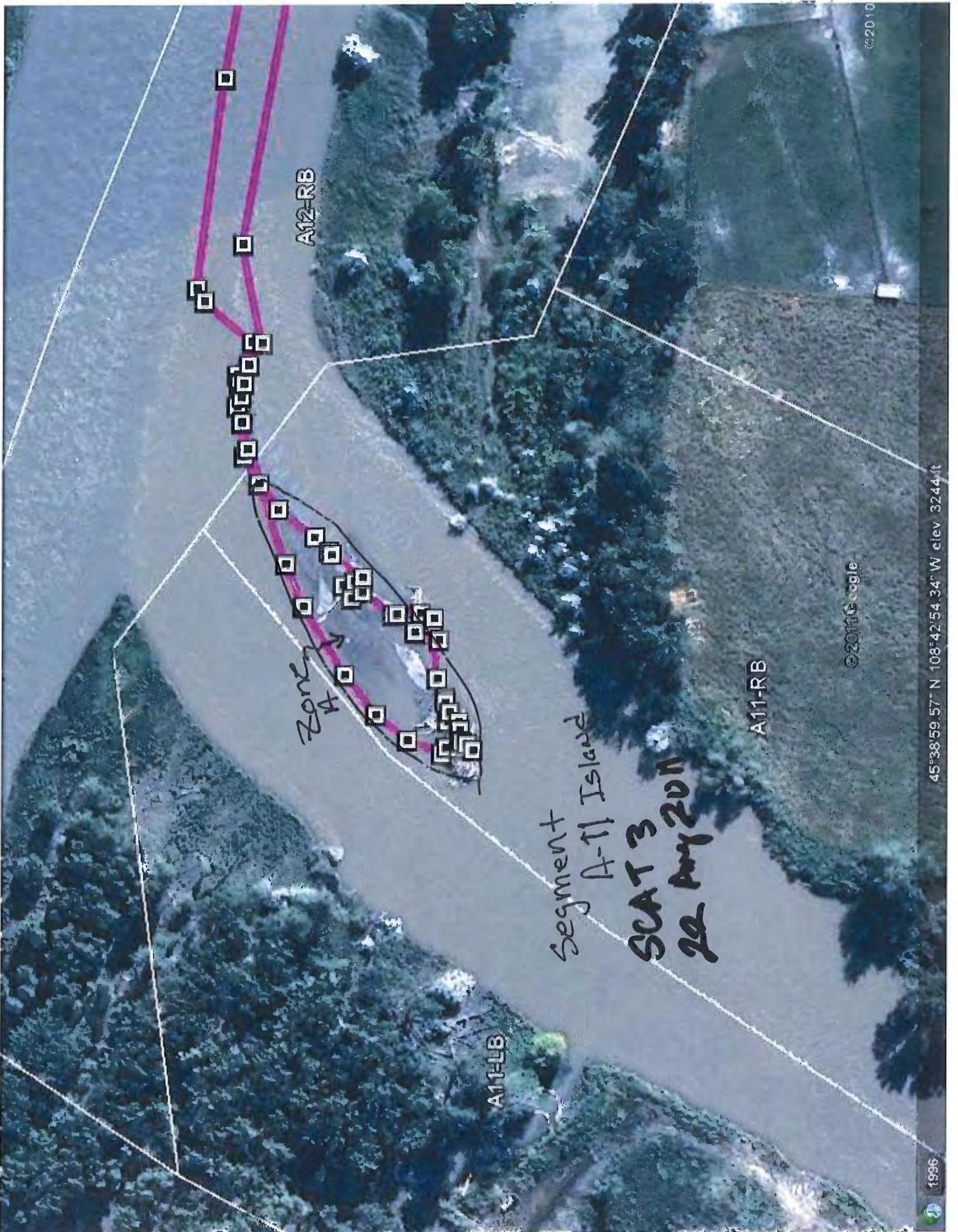
7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

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

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

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

Zone A - New Emerging Island - No Oil Observed
No Further Treatment Required



A12-RB

A11-RB

A11-LB

Zone A

Segment
A-11 Island
SCAT 3
22 Aug 2011

©2011 Google

©2010

1995

45°38'59.57" N 108°42'54.34" W elev. 3244 ft

026

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

| | | | | |
|--|--|---|--|---|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) 18-Jul-2011 | Time (24h): std / daylight 1024 hrs to 1025 hrs | Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising |
| Segment/Reach ID: A11 <u>Left Bank / Right Bank / Island</u> | | | | |
| Operations Division: A | | | | |
| Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____ | | Sun / Clouds / Fog / Rain / Snow / Windy / Calm | | Air Temp +/- <u>32</u> deg C |

| | | | |
|----------------------------------|------|--------------|----------------------|
| 2 SURVEY TEAM # 1 & 2 | name | organization | contact phone number |
| Andrew Milanes | | Polaris | |
| Bruce Kvam | | Polaris | |
| Pete Lee | | Polaris | |
| Andy Johnson | | USCG | |
| Travis Olson | | USCG | |
| Aaron Anderson | | MTDEQ | |
| Larry Elheim | | MTDEQ | |

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 291 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: 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 P braided S oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

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

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

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

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

| OIL ZONE | RIVER BANK ZONE | | | | OIL COVER | | | OIL THICKNESS | | | | | OIL CHARACTER | | | | | | | SUBST. TYPE(S) | | |
|----------|-----------------|----|----|----|-----------|-------|----------|---------------|----|----|----|----|---------------|----|----|----|----|----|----|----------------|----|---------------------|
| | | | | | Length | Width | Distrib. | TO | CV | CT | ST | FL | FR | MS | TB | PT | TC | SR | AP | | NO | |
| ID | MS | LB | UB | OB | m | m | % | | | | | | | | | | | | | | | |
| A | | | X | | 264 | 1 | 65 | | X | X | X | | X | | | | | | | | | Grass, trees |
| B | | | X | | 27 | 1 | | | | | | | | | | | | | | X | | Grass, trees, rocks |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

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) | |
|-------------------|-----------------|--|--|--|----------------|------------|--------------------------|----|----|----|----|----|-------------|--------------|-------------|----------------|----|
| | | | | | | | SAP | OP | PP | OR | OF | TR | | | | | NO |
| | | | | | cm | cm-cm | | | | | | | | | | | |

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

Oil band heights: Zone A - 50cm

Treatment Recommendations:
 Zone A: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.
 Zones B: No Oil Observed. No Treatment Required.

*Refer to current approved treatment methods #1 (Cutting of Vegetation)

Sketch Yes / No Photos Yes / No Frames 4824-4842 (Milanes)



SCAT Teams 1 & 2 Survey

Segment A11 - Left Bank

18 July 2011



Legend

- Segment Boundaries
- ↔ Oiling Zones

DB/13

of Clark Fork

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

| | | | | |
|---|--|--|------------------------------------|----------------------------------|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) | Time (24h): std / daylight | Water Level |
| Segment/Reach ID: <u>A11</u> | <u>Left Bank</u> / Right Bank / Island | <u>23/07/11</u> | <u>0940</u> hrs to <u>0959</u> hrs | low - mean - bankfull - overbank |
| Operations Division: <u>A</u> | | | | (falling - steady - rising) |
| Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / | | <u>(Sun)</u> Clouds / Fog / Rain / Snow / Windy / <u>(Cal)</u> | | Air Temp + / <u>25</u> deg C |

| 2 SURVEY TEAM # | Name | Organization | Signature |
|-----------------|-----------------------|----------------------|--------------------|
| <u>0</u> | <u>Chelsea Murphy</u> | <u>Cardno ENTRIX</u> | <u>[Signature]</u> |
| | <u>Ron Brown, JR</u> | <u>USCG</u> | <u>[Signature]</u> |
| | <u>Damien Turner</u> | <u>MT/DEQ</u> | <u>[Signature]</u> |
| | <u>Steve Kennedy</u> | <u>Cardno Entrix</u> | <u>[Signature]</u> |

3 SEGMENT Total Segment/Reach Length ~250 m Segment/Reach Length Surveyed ~250 m

Start GPS: LATITUDE 45.650536 deg. _____ min. LONGITUDE 108.715706 deg. _____ min. Datum: WGS 84

End GPS: LATITUDE 45.648591 deg. _____ min. LONGITUDE 108.716958 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 _____ Mixed _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank (S) Wooded Upland: _____

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

4B RIVER VALLEY CHARACTER select as appropriate

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

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

5 OPERATIONAL FEATURES

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

Debris: Y / N oiled Y/N amount 30 bags or _____ trucks access restrictions great access + staging along reach

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 | RIVER BANK ZONE | | | | OIL COVER | | | OIL THICKNESS | | | | | OIL CHARACTER | | | | | | SUBST. TYPE(S) | | | | |
|----------|-----------------|----|----|----------|------------|------------|-----------|---------------|----------|----------|----------|----|---------------|----------|----|----|----|----|----------------|----|----|----|---------|
| | | | | | Length | Width | Distrib. | THICKNESS | | | | | CHARACTER | | | | | | | | | | |
| | ID | MS | LB | UB | OB | m | m | % | TO | CV | CT | ST | FL | FR | MS | TB | PT | TC | | SR | AP | NO | |
| A | | | | <u>P</u> | <u>250</u> | <u>100</u> | <u>15</u> | | <u>S</u> | <u>P</u> | <u>S</u> | | | <u>P</u> | | | | | | | | | mud/veg |

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

| TRENCH or PIT NO. | RIVER BANK ZONE | | | | MAX. PIT DEPTH cm | OILED ZONE | 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 | | | | |
| | | | | | | | | | | | | | | | |

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 Recommendation - Continue cleanup efforts. Recommend another survey when crews make more progress.

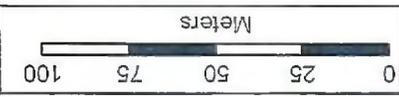
Cleanup methods 1-5

Sketch Yes / No Photos Yes / No Frames 28-31 Photographer Chelsea Murphy

A11 -
(UR/1)??

DATE:
TEAM:

COMMENTS:



108°43'5"W

108°43'0"W

108°42'55"W

108°42'50"W

108°42'45"W



45°39'0"N

45°39'0"N

45°38'55"N

45°38'55"N



108°43'5"W

108°43'0"W

108°42'55"W

108°42'50"W

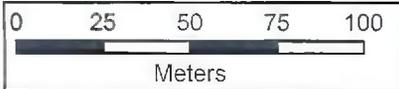
108°42'45"W

A11 - LB
(LR)??
~~LB~~

DATE: 07/25/11

COMMENTS:

TEAM: 3



CK 8/22/11



Appendix C

Pre-Inspection Survey Transmittal

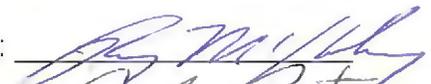
Copy given
to Ops.

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 8/20/11

Segment: A11 RB IB

Team: SCAT Liaison Ray McKelvey

Signed: 

Observer Gary Reiter

Signed: 

Observer _____

Signed: _____

Observer _____

Signed: _____

Segment meets criteria? YES ___ NO X

RBOS attached? YES ___ NO X

If NO:

Location Sketch attached? YES ___ NO X

CTR continue? YES X NO ___

Comments: **Segment was pre-inspected for re-scat and did not meet CTR criteria. Area's needing attention were flagged out and shown to the segment supervisor Paul Reed.**

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 8/22/11

Segment: A11 ~~RB~~ LB

Team: SCAT Liaison Ray McKelvey

Signed: 

Observer _____

Signed: _____

Observer _____

Signed: _____

Observer _____

Signed: _____

Segment meets criteria? YES NO _____

RBOS attached? YES _____ NO

If NO:

Location Sketch attached? YES _____ NO

CTR continue? YES _____ NO

Comments: **Segment is ready for re-scat.**

1. Property name: College Park LLP
2. Property name: Thomas & Evonne Altman
3. Unknown



Appendix D

Post-Inspection Survey Transmittal

POST

Post Inspection Survey Transmittal

Created by Connor Kabeski/QA/QC 8/29/11

Segment A11 - LB

Date of Survey 8/24/2011

COMPLETED

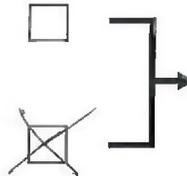
SCAT Team Member (see attached PIST) Signed: _____

SCAT Team Member _____ Signed: _____

SCAT Team Member _____ Signed: _____

SCAT Team Member _____ Signed: _____

Segment FAILED ReSCAT



**Referred to Ops
For Further Treatment**

Segment Conditionally PASSES ReSCAT

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.

 Cut and remove oil coated vegetation, fit smaller than 1" diameter.

Zone Dimensions: Length 13 m Width 1 m GPS Waypoint: Lat. _____ Long. _____
(required) (center of zone)

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

H.P. Allie MTDEQ 8/30/11

 Ray McKelvey 8/29/11
Sign Name Print Name/ Affiliation Date

SCAT/Ops Liaison (SCAT RP Representative)

EPA: John M. Eskelsen 8/29/11 Updated: 8/28/2011
Silver to Pipeline Response

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 08/24/2011
Segment: All LB

Team:

| | | | |
|----------------|-----------------------------|---------|------------------------|
| RP Team Leader | <u>Bruce Kvam Polaris</u> | Signed: | <u>Bruce Kvam</u> |
| Federal Rep | <u>Terry Tanner USEPA</u> | Signed: | <u>Terry Tanner</u> |
| State Rep | <u>Jeffrey Herrick MDEA</u> | Signed: | <u>Jeffrey Herrick</u> |
| Other trustee | <u>Lee Burroughs MFWP</u> | Signed: | <u>Lee Burroughs</u> |

Segment meets criteria? YES NO

RBOS attached? YES NO

If NO:
Location Sketch attached? YES NO

CTR continue? YES NO

Comments:



Appendix E

Final SCAT Survey Forms and
Sketches

D13/6

| | | | | |
|---|--|-----------------|------------------------------------|---|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) | Time (24h): std / daylight | Water Level |
| Segment/Reach ID: <u>A11</u> | Left Bank / Right Bank / Island | <u>2-9-11</u> | <u>1430</u> hrs to <u>1530</u> hrs | low - <u>mean</u> - bankfull - overbank |
| Operations Division: <u>A</u> | | | | falling - steady - rising |
| Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / | <u>sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm | | | Air Temp + / - <u>22</u> deg C |

| 2 SURVEY TEAM # <u>3</u> | Name | Organization | Signature |
|--------------------------|----------------------|----------------------|----------------------|
| | <u>Charles Pons</u> | <u>Canada ENTPRV</u> | <u>Charles Pons</u> |
| | <u>Steve Opp</u> | <u>DEQ</u> | <u>Steve Opp</u> |
| | <u>TERREY LAWREN</u> | <u>U.S. EPA</u> | <u>TERREY LAWREN</u> |
| | | | |
| | | | |

3 SEGMENT Total Segment/Reach Length 275 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 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 Y oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

2045

| OIL ZONE | 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 | 275 | 130 | cl | | | | P | | | | | | P | | | | | S | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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 has cl/g. of sand veg + debris.

No further Trenches

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

N45°39'5.76"

3/2/2011

A12

9-2-11

T-3

All RB

A



A12-RB

A11-LB

W108°42'59.04" / A11

A11-RB

008

ACTIVE LOG 010

ACTIVE LOG 009

ACTIVE LOG 026

ACTIVE LOG 027

Image © 2011 DigitalGlobe

© 2011 Google

©2010 Google

Date: 4/30/2004 1996

45°38'55.14" N 108°42'54.85" W elev 3244 ft

Eye alt

DB/G

R

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 12

| | | | | |
|---|--|---|---|--|
| 1 GENERAL INFORMATION | | Date (dd/mm/yy) <u>06/24/11</u> | Time (24h): std / daylight 810 hrs to 1000 hrs | Water Level low - mean - bankfull - overbank falling - steady - rising |
| Segment/Reach ID: A11LB Left Bank / Right Bank / Island | | | | |
| Operations Division: A | | | | |
| Survey by: Foot / ATV / Boat / Helicopter / Overlook / | | Sun / Clouds / Fog / Rain / Snow / Windy / Calm | | |

| | | | |
|--------------------------|------|-------------------------------|-----------|
| 2 SURVEY TEAM # 6 | Name | Organization | Signature |
| Lee Burroughs | | MFW&P | |
| Terry Tanner | | USEPA | |
| Bruce Kvam | | Polaris Applied Sciences, LLC | |
| Jeffrey Frank Herrick | | MDEQ | |
| Eric Harlow | | Cardno Entrix | |

3 SEGMENT Total Segment/Reach Length 280m m Segment/Reach Length Surveyed 280m m

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

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

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

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

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

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

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

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate- Clark Fork Tributary

est. width: <1m 1-10m 10-100m >100m 7.5m est. water depth: <1m 1-3m 3-10m >10m _____ m

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

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

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

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

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

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

| OIL ZONE | RIVER BANK ZONE | | | | OIL COVER | | | OIL THICKNESS | | | | | OIL CHARACTER | | | | | | | SUBST. TYPE(S) | | | |
|----------|-----------------|----|----|----|-----------|-------------|------------|---------------|----|----|----|----|---------------|----|----|----|----|----|----|----------------|----|----|--------------------------------------|
| | ID | MS | LB | UB | OB | Length m | Width m | Distrib. % | TO | CV | CT | ST | FL | FR | MS | TB | PT | TC | SR | | AP | NO | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| A | | | | x | | 13 | 1 | 30 | | | x | | | | | | | | x | | | | Shrubs, grass |
| B | | | | | x | 250 | 80 | 1 | | | | P | X | | | | | | x | | | | Forested trees, brush, debris, water |

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

NOTE: This section is on a tributary- Clark Fork. Rescat

Zone A- Cut and remove oil coated vegetation smaller than 1" diameter. status on vegetation

Zone B- NFT. - stains on vegetation, film on pond & ditch w/s of boom - NFT.

Zone A & B parallel each other, so reach surveyed > segment length

Boom needs to be removed - located in drainage channel from pond.

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

108°43'5"W

108°43'0"W

108°42'55"W

108°42'50"W

108°42'45"W



45°38'0"N

45°38'0"N

45°38'55"N

45°38'55"N



108°43'5"W

108°43'0"W

108°42'55"W

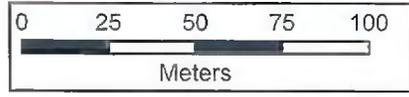
108°42'50"W

108°42'45"W

A11 -
①/R/I)??

DATE: 08/24/2014
TEAM: 6

COMMENTS:





Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment All R Date of Survey 9-2-11

Dates of Initial SCAT Assessments 18 JUL 11 (16)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 4,8

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

Segment Assessment Complete¹

Partial Segment Assessment

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

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

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


Sign Name _____ Print Name/ Affiliation TERRY TANNER / U.S. EPA Date 9/3/11
Federal Representative (EPA/USCG)


Sign Name _____ Print Name/ Affiliation Steve Opp / DEQ Date 9/3/11
State Representative (DEQ/FWP)


Sign Name _____ Print Name/ Affiliation Charles Ross / Cadmus ENTRIX Date 9-2-11
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.