

## **Synoptic Survey Summary**

Date: 8/12/14 (Day 1)

The crew met at 07:00 and drove to gauge below Nine Mile Dam (SR-1). Here, we reviewed the final version of the SAP, the Health and Safety Plan and the Invasive Species Plan and began sampling.

Samples Collected:

- SR1-081214-0945, collected Replicate 1 here as well;
- HC1-081214-1130;
- SR3-081214-1225;
- SR15-081214-1425;
- SR12-081214-1545;
- SR9-081214-1720;
- SR7-081214-1805, also collected BLANK-081214-1830;

### **Problems**

- The shipment containing the flow meter did not arrive as scheduled; therefore, flows were not able to be collected at SR-9 at the time of sample collection.
- At ~18:40, a storm came into the area that produced high winds, lightning and rain. At 19:45, with lightning and rain still in the area, it was decided to cease sampling for the day. Felts Field reported total rainfall at 0.07".

### **Planned Tasks for 8/13/14 (Day 2)**

- Collect samples at discharge locations
- Collect sample at Green Street that was not collected when sampling was aborted on Tuesday evening.

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## **Synoptic Survey Summary**

Date: 8/13/14 (Day 2)

The crew met at 07:00 and drove to Coeur d'Alene to drop off the previous day's samples at Silver Valley Laboratory. We then began sampling the discharge locations.

Samples Collected:

- SR14-081314-1000;
- SR11-081314-1130;
- SR10-081314-1210;
- SR8-081314-1325, also collected BLANK-081314-1345;

- SR2-081314-1500, also collected Replicate 2;
- SR5-081314-1615;
- SR6-081314-1705;
- SR4-081314-1805 (a make-up sample from yesterday)

#### Problems

No problems were encountered today. All planned samples were acquired, as well as yesterday's sample at SR-4 that was not collected due to hazardous weather.

#### Planned Tasks for 8/14/14 (Day 3)

- Collect samples at in-stream locations
- Drop off samples from 8/13/14 at SVL in Coeur d'Alene
- Ship PCB samples from 8/12/14 and 8/13/14 to Axys Laboratory.

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### **Synoptic Survey Summary**

Date: 8/14/14 (Day 3)

The crew met at 07:00 and drove to Coeur d'Alene to drop off the previous day's samples at Silver Valley Laboratory. We then began sampling the in-stream locations. As was the case on days 1 and 2, discrete samples, samples for composite, and archive samples were collected at each location. PCB samples collected during Days 1 and 2 (and some of day 3) were shipped to Axys Lab via Fed Ex today.

Samples Collected:

- SR15-081414-0835;
- SR12-081414-1015;
- SR9-081414-1140, measured flows at this location as well;
- SR1-081414-1435;
- HC1-081414-1520;
- SR3-081414-1600, Replicate 3 was also collected here;
- SR4-081414-1645, Blank sample was also collected here;
- SR7-081414-1800.

#### Problems

No problems were encountered today.

#### Planned Tasks for 8/15/14 (Day 4)

- Drop off samples from 8/14/14 at SVL in Coeur d'Alene.
- High Volume Sampling at SR-1 and SR-15.

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## **Synoptic Survey Summary**

Date: 8/15/14 (Day 4)

High-volume sampling was conducted at SR-15 (Coeur d'Alene) until 1:30pm, at which point the field crew packed up their equipment and drove to SR-1 (below Nine Mile Dam). High volume sampling was completed at this location at 8:30pm.

Samples Collected:

- SR1-081514-1304 (physical parameters for SVL);
- SR1-081514-1304-P (pcb analysis of "puff" filter);
- SR1-081514-1304-V (pcb analysis of "vortex" filter);
- SR15-081514-2020 (physical parameters for SVL);
- SR15-081514-2020 (pcb analysis of "puff" filter);
- SR15-081514-2020 (pcb analysis of "vortex" filter).

## **Problems**

No problems were encountered today.

## **Planned Tasks for 8/16/14 (Day 5)**

- Conduct in-stream sampling at the river stations;
  - Collect flow measurements at SR-9.
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## **Synoptic Survey Summary**

Date: 8/16/14 (Day 5)

Sampling was conducted at the in-stream locations today. The field crew began work at 6:30am (1 hour earlier) in anticipation of limited parking at the locations later in the day due to it being the weekend.

Samples Collected:

- SR15-081614-0740;
- SR12-081614-0845;
- SR9-081614-0940, also collected BLANK-081614-1010 at this location and flow measurements;
- SR7-081614-1040;
- SR4-081614-1230;

- SR1-081614-1350;
- HC1-081614-1455, collected Replicate4 here as well;
- SR3-081614-1545.

### Problems

No problems were encountered today.

### Planned Tasks for 8/17/14 (Day 6)

- Re-supply coolers holding samples with ice to maintain 4 degree samples;
  - Purchase more coolers to accommodate Monday's in-stream samples;
  - Organize paperwork, make copies of field forms;
  - Charge equipment (electric boat motor, flow meter handset).
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### **Synoptic Survey Summary**

Date: 8/17/14 (Day 6)

No sampling was scheduled to occur today. The field crew restocked necessary items to continue sampling for another week, such as coolers, field forms, etc. Ice was replenished on samples collected over the past couple days as well.

### Problems

No problems were encountered today.

### Planned Tasks for 8/18/14 (Day 7)

- Collect samples at in-stream locations;
  - Collect flow measurements at Barker Rd. site;
  - Ship collected PCB samples to Axys Labs via Fed Ex;
  - Drop off SVL samples to lab in Coeur d'Alene.
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### **Synoptic Survey Summary**

Date: 8/18/14 (Day 7)

Samples from 8/15 and 8/16 were dropped off at SVL at ~8am. Sampling was then conducted at the in-stream locations.

Samples Collected:

- SR15-081814-0840;
- SR12-081814-0945;
- SR9-081814-1045, also collected flow measurements at this location;
- SR7-081814-1130;
- SR4-081814-1240, also collected BLANK-081814-1245 at this location;
- SR1-081814-1440;
- HC1-081814-1550, collected Replicate4 here as well;
- SR3-081814-1635.

11 coolers were shipped to Axys Labs today via Fed Ex.

### Problems

No problems were encountered today.

### Planned Tasks for 8/19/14 (Day 8)

- Drop off samples at SVL
  - Collect samples at discharge locations.
  - Pick up coolers (more sample bottles) from Axys at Kaiser.
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## **Synoptic Survey Summary**

Date: 8/19/14 (Day 8)

Samples from 8/18 were dropped off at SVL at ~8:30am. Sampling was then conducted at the discharge locations.

Samples Collected:

- SR14-081914-0935;
- SR11-081914-1005;
- SR10-081914-1045;
- SR2-081914-1225;
- SR5-081914-1410, also collected Replicate 6 and BLANK-081914-1420 at this location;
- SR6-081914-1505;
- SR8-081914-1610.

### Problems

The samples shipped to Axys on 8/18/14 were shipped for overnight delivery to the lab, but due to a "service disruption" the samples were not delivered as scheduled. (See link below for details).

<http://www.fedex.com/us/servicealerts/>

This shipment of 11 coolers is now scheduled to arrive at Axys on the morning of 8/20/14.

#### Planned Tasks for 8/20/14 (Day 9)

- Drop off samples at SVL, pick up more coolers.
  - Collect samples at in-stream locations.
  - Measure flow at SR9.
  - Pick up coolers (more sample bottles) from Axys at Kaiser (these coolers were also delayed by the “service disruption”).
  - Ship samples for PCB analysis via Fed Ex to Axys Lab.
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### **Synoptic Survey Summary**

Date: 8/20/14 (Day 9)

Samples from 8/19 were dropped off at SVL at ~7:50am. Sampling was then conducted at the in-stream locations.

Samples collected:

- SR15-082014-0820;
- SR12-082014-0945;
- SR9-082014-1045;
- SR7-082014-1145;
- SR4-082014-1220, also collected Replicate 6 and BLANK-081914-1420 at this location;
- SR1-082014-1410;
- HC1-082014-1515;
- SR3-082014-1550.

#### Problems

SVL has reported a shortage of amber sample containers used to collect TOC and DOC samples. TOC and DOC sample containers previously supplied by SVL are amber in color, with the TOC vial containing the preservative H<sub>2</sub>SO<sub>4</sub> and the DOC vials being unpreserved. Acceptable alternative sample containers will be discussed with the lab in order to obtain the desired analyses.

#### Planned Tasks for 8/21/14 (Day 10)

- Drop off samples at SVL.
  - Collect samples at discharge locations.
  - Ship samples for PCB analysis via Fed Ex to Axys Lab.
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Date: 8/22/14 (Day 11)

Samples from 8/21 were dropped off at SVL at ~8:00am. Sampling was then conducted at the in-stream locations.

Samples collected:

- SR15-082214-0830;
- SR12-082214-0935;
- SR9-082214-1030, also collected Replicate 9 and Blank-082214-1125;
- SR7-082214-1205;
- SR4-082214-1345;
- SR1-082214-1500;
- HC1-082214-1550;
- SR3-082214-1620.

#### Problems

Axys Labs reported that (2) bottles were broken by Fed Ex during shipment. The samples that were broken were "Replicate 6" (from 8/19/14) and "SR9-082014-1045-C". SVL labs was contacted to supply the archive sample for "SR9-082014-1045", which was picked up today from SVL laboratory in Coeur d'Alene. This sample will be held on ice until Monday and submitted to Axys with the next FedEx shipment.

#### Planned Tasks for 8/23/14 (Day 12)

- Collect sample at SR-15.
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Date: 8/23/14 (Day 12)

Due to recent rainfall in the Coeur d'Alene area, a sample was collected at SR-15 today.

Samples collected:

- SR15-082314-1130;

#### Problems

No problems were encountered today.

#### Planned Tasks for 8/24/14 (Day 13)

- Collect samples at the in-stream locations.
- Conduct high-volume sampling at SR-15 and SR-1.

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Date: 8/24/14 (Day 13)

We began the day by setting up the high-volume sampling at SR-15. Once underway, part of the crew split off to collect samples at the in-stream locations. The high-volume crew met the sampling crew at the end of the day at SR-1 to conduct another high-volume sample. Two blank samples were conducted by Gravity at the end of the day on 8/23/14 on the high volume sample equipment.

Samples collected:

- Blank-082314-1950-P;
- Blank-082314-1950-V;
- SR15-082414-0930 (archive sample for PCBs only), also collected Blank-082414-0900 here;
- SR12-082414-1030, also collected Replicate 10 here;
- SR9-082414-1125;
- SR7-082414-1215;
- SR4-082414-1305;
- SR15-082414-1330-P;
- SR15-082414-1330-V;
- SR3-082414-1430;
- HC1-082414-1500;
- SR1-082414-1600;
- SR1-082414-1912-P;
- SR1-082414-1912-V.

#### Problems

No problems were encountered today.

#### Planned Tasks for 8/25/14 (Day 14)

- Drop off samples at SVL.
- Ship samples via Fed Ex to Axys Labs.

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Date: 8/25/14 (Day 14)

Samples were dropped off at SVL in Coeur d'Alene around 8am. Then, samples that were collected on 8/22, 8/23 and 8/24/14 were packaged for shipment to Axys Labs. These coolers were dropped off at Fed Ex at 10:30am.



Problems

No problems were encountered today.

This concludes the Synoptic Survey.

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