

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** CO\_04\_CMP14

**Name:** Sediment PCB: Manitowoc R. Downstream of Hayton Dam - CO\_04\_CMP14

**Type:** Competitive Projects

**Subtype:** Evaluation Monitoring

**Status:** FINAL\_RPT

**Start Date:** 07/01/2012

**End Date:** 12/31/2012

**Purpose:** Collection of vertically segmented sediment samples in the 1.5 mile reach of Manitowoc River downstream of Hayton dam, Calumet County for analysis of total particle-bound PCB with Arochlor identification.

**Objective:** The Hayton Area Remediation Project (HARP) in entering its 12th year of design and sediment remediation and bank restoration, with work continuing upstream of Hayton Millpond/dam in Operational Units 3 and 4. While water-column testing has shown dissolved fraction PCBs are moving over the dam, there has been no sediment testing done immediately downstream of the dam to determine if PCBs exist within the stream bed. The current extent of the HARP project includes and is bounded by the millpond dam. The downstream sediment chemistry information is necessary to determine if the site boundaries need to be expanded before respondents (Tecumseh and TRC Consultants) begin design on the final phases of the project.

**Comments:** This project is proposed as a continuing project with a new project ID (formerly CO\_03\_CMP13).

NOTE: Exact locations and stations will be determined during field reconnaissance, approximately 1 week before sampling event.

**Outcome:** Results of this sampling and mapping effort will definitively determine whether expansion of the HARP project boundaries is necessary or not.

**Study Design:** Samples will be collected at six distinct TBD locations downstream of Hayton Dam. These locations will be chosen for their morphological significance, and each sample site will have geographic coordinates determined and recorded using an RTD GPS. Interval sampling will be conducted using a 3" diameter piston corer, with core segmentation occurring at the 10cm and 40cm interval. If shallow sediment thickness does not allow for full core recovery, a petit Ponar dredge will be used for sampling of material from the biological active zone (0-10cm). Samples will be collected during low-flow conditions to ensure wadability. After homogenizing, sample will be split into proper laboratory-provided containers for organic analysis (PCB and TOC) and physical properties (particle size fractioning) at SLOH.

**QA Measures:** Standard QA and personal safety protocols for Department sediment sampling procedures will be used. This includes sample measurement and description, proper equipment use and cleaning, proper documentation, storage and transport of samples, and meeting data accuracy standards for sample site locations.

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
BOUGIE, CHERYL A	COORDINATOR	COMPLETE	07/01/2012	12/31/2014	Wisconsin DNR	
KILLIAN, JAMES A	COORDINATOR	ACTIVE	07/01/2012	12/31/2014	Wisconsin DNR	
MACDONALD, MOLLI M	TEAM_MEMBER	ACTIVE	07/01/2012	12/31/2012	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
03/15/2012	JAMES KILLIAN	Proposed	
07/01/2012	RUTH PERSON	Active	
06/05/2013	MOLLI MACDONALD	Active	Feldwork sampling delayed until 2013.
10/30/2013	CHERYL BOUGIE	Active	Scheduled to conduct sediment sampling on November 12, 2013.
05/12/2014	CHERYL BOUGIE	Active	Project hold over from last year. Sampling is scheduled for July 2014.
07/30/2014	CHERYL BOUGIE	Active	Sampling effort to begin 7/31/2014

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Date	Reported By	Status	Comments
07/31/2014	CHERYL BOUGIE	Progress: 50-75% Complete	Sediment Sampling Completed
12/04/2014	CHERYL BOUGIE	Progress: 75-100% Complete	Report to be completed by Feb 2015
12/07/2017	CHERYL BOUGIE	Complete	Final Report Uploaded

### Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	6 distinct TBD sediment sampling sites.
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	2 seperate trips of full-day work and travel.
3. Proposed Dates for Sample Collection	Sometime Mid-August to Late September, with preference being early September.
4. List applicable databases and who will enter data?	Will be automatically loaded to SWIMS and SLOH databases.
5. Did you receive competitive projects funding in the previous year?	No
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	-NA-
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor Water Quality or Sediment	Hayton Millpond PCB cleanup impacting several PCB listed segments.	01/01/2001		IN_PROGRESS
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	PCBs - Concentration (sediment)			
Sediment Remediation	Sediment investigation that will determine the potential for remediation.	07/01/2012	12/31/2012	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
10041406	S Branch Manitowoc River 4772 ft DS Weeks Rd	
10041407	S Branch Manitowoc River 5188 ft DS Weeks Rd	
10041404	S. Branch Manitowoc River ~3900 Ft DS Weeks Rd	

### Assessment Units

WBIC	Segment	Local Name	Official Name
50700	3	Sheboygan River	Sheboygan River
59600	1	Unnamed Trib to Sheboygan R	Unnamed
68600	1	Round Lake	Round Lake
71000	3	Manitowoc River	Manitowoc River
75900	1	North Branch Manitowoc River	North Branch Manitowoc River
75900	2	North Branch Manitowoc River	North Branch Manitowoc River
76000	1	Unnamed Stream (T19n, R20e,S25)	Unnamed
76100	1	Unnamed Creek (T19n R22e S23)	Unnamed

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
76200	1	Unnamed Creek (T19n R20e S23)	Unnamed
76300	1	Unnamed Creek (T19n R20e S15)	Unnamed
76400	1	Unnamed Creek (T19n R20e S15)	Unnamed
76500	1	Ditch to the North Manitowoc River	Unnamed
76700	1	Unnamed Creek (T19n R20e S4)	Unnamed
76800	1	Hilbert Creek	Unnamed
76900	1	Spring Creek	Spring Creek
77000	1	Black Creek	Black Creek
77100	1	Unnamed Creek (T20n T20e S34)	Unnamed
77200	1	Grass Lake	Grass Lake
77300	1	Becker Lake	Becker Lake
77600	1	Boot Lake	Boot Lake
77700	1	Un Lake	Unnamed
77800	1	Un Lake	Unnamed
77900	1	Manitowoc R. So. Branch	South Branch Manitowoc River
77900	2	Manitowoc R. So. Branch	South Branch Manitowoc River
78200	1	Killsnake River	Killsnake River
78300	1	Unnamed Trib (T18n, R19e, S01)	Unnamed
78400	1	Unnamed Trib (T19n, R19e, S27)	Unnamed
78500	1	Unnamed Trib (T19n, R19e, S28)	Unnamed
78600	1	Unnamed Trib (T19n, R19e, S21)	Unnamed
78700	1	Cedar Creek	Cedar Creek
78900	1	Hayton Creek	Hayton Creek
79800	1	Hayton Millpond	Hayton Pond 104
79900	1	Pine Creek	Pine Creek
79900	2	Pine Creek	Pine Creek
80000	1	Unnamed Trib (T18n, R20e, S21)	Unnamed
80100	1	Unnamed Trib (T18n, R20e, S27)	Unnamed
80200	1	Jordon Creek	Jordan Creek
80200	2	Jordon Creek	Jordan Creek
80300	1	Unnamed Trib (T17n, R20e, S11)	Unnamed
80500	1	Schildhauer Pond	Schildhauer Pond
81200	1	Chilton Millpond	Chilton Millpond 75
81300	1	Unnamed Trib (T18n, R19e, S13)	Unnamed
81400	1	Unnamed Trib (T18n, R19e, S26)	Unnamed
81500	1	Stony Brook	Stony Brook
81500	2	Stony Brook	Stony Brook
81700	1	Unnamed Trib (T17n, R19e, S16)	Unnamed
115700	1	Un Lake	Unnamed
118000	2	East River	East River
125100	2	Plum Creek	Plum Creek
125100	3	Plum Creek	Plum Creek
125500	2	Unnamed Trib to Plum Cr	Unnamed
125600	1	Unnamed Creek(T21n,R19e,S36)	Unnamed
126800	2	Kankapot Creek	Kankapot Creek
126900	1	Local Water	Unnamed
127000	1	Local Water	Unnamed
127700	1	Garners Creek	Garners Creek

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
131100	1	Lake Winnebago	Lake Winnebago
131100	2	High Cliff SP - Lake Winnebago Beach	Lake Winnebago
131130	1	Unnamed Creek	Unnamed
131200	1	Unnamed Streams	Unnamed
131300	1	Unamed	Unnamed
131400	1	Unamed	Unnamed
131500	1	Mill Creek	Mill Creek
131600	1	Mud Creek	Mud Creek
131620	1	WETLAND TRIBUTARY TO MUD CREEK	Unnamed
131700	1	Roberts Creek	Roberts Creek
131900	1	Johnson Creek	Johnson Creek
132100	1	Brothertown Creek	Unnamed
3000057	1	Unnamed Creek	Unnamed
3000135	1	WETLAND TRIBUTARY TO THE NORTH BRANCH MANITOWOC RIVER	Unnamed
5021798	1	Unnamed Stream	Unnamed
5021964	1	Unnamed Stream	Unnamed
5021999	1	Unnamed Stream	Unnamed
5022060	1	Unnamed Stream	Unnamed
5022083	1	Unnamed Stream	Unnamed
5022125	1	Unnamed Stream	Unnamed
5022136	1	Unnamed Tributary to Garners Creek	Unnamed
5022162	1	Unnamed Trib to Garners Creek	Unnamed
5022198	1	Unnamed Trib to Garners Creek	Unnamed
5022241	1	Unnamed	Unnamed
5022391	1	Unnamed	Unnamed
5022562	1	Unnamed Stream	Unnamed
5022696	1	Unnamed Stream	Unnamed
5024409	1	Unnamed Stream	Unnamed
5024513	1	Unnamed Stream	Unnamed
5025367	1	Local Water	Unnamed
5025587	1	Unnamed Stream	Unnamed
5553969	1	Local Water	Unnamed
5554120	1	Local Water	Unnamed
5554199	1	Local Water	Unnamed
5554467	1	Local Water	Unnamed
5554719	1	Local Water	Unnamed
5554754	1	Local Water	Unnamed
5554781	1	Local Water	Unnamed
5554832	1	Local Water	Unnamed
5554992	1	Local Water	Unnamed
5555007	1	Local Water	Unnamed
5555265	1	Local Water	Unnamed
5560292	1	Local Water	Unnamed
5590421	1	Local Water	Unnamed

### Lab Account Codes

<b>Account Code</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>
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Account Code	Description	Start Date	End Date
GL031	HAYTON/MANITOWOC SAMPLES	08/01/2014	06/30/2015

**Forms**

Form Code	Form Name
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**Methods**

Method Code	Description
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**Fieldwork Events**

Start Date	Status	Field ID	Station ID	Station Name
07/31/2014 11:05	COMPLETE	HAYT14-S1	10041404	S. Branch Manitowoc River ~3900 Ft DS Weeks Rd
07/31/2014 11:30	COMPLETE	HAYT14-S2	10041404	S. Branch Manitowoc River ~3900 Ft DS Weeks Rd
07/31/2014 12:30	COMPLETE	HAYT14-S2A	10041404	S. Branch Manitowoc River ~3900 Ft DS Weeks Rd
07/31/2014 13:00	COMPLETE	HAYT14-S3	10041406	S Branch Manitowoc River 4772 ft DS Weeks Rd
07/31/2014 13:45	COMPLETE	HAYT14-S4	10041407	S Branch Manitowoc River 5188 ft DS Weeks Rd
07/31/2014 14:15	COMPLETE	HAYT14-S5	10041407	S Branch Manitowoc River 5188 ft DS Weeks Rd

**Documents**

Title	Description	Author	Published	Comments
South Branch Manitowoc River Downstream of Hayton Dam Sediment Assessment Results	Final Report - South Branch Manitowoc River Downstream of Hayton Dam Sediment Assessment Results.	Cheryl A Bougie	10/26/2017	

**Budget**

<b>Budget Description:</b> 2012 Manitowoc R. downstream of Hayton	<b>Start Date:</b> 07/01/2012	<b>End Date:</b> 12/31/2012
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	Hours	\$0.00	\$0.00	this is 40 hours/worker: Killian and Bougie
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage		Miles	\$0.72	\$0.00	
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$0.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	6		\$550.50	\$3,303.00	sed. prep and PCB Arochlor anal.- SLOH 0151OG4
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$3,303.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I495ELT	PARTICLE SIZE (UW-EXT SOILS LAB; NON-CERTIFIED)	INORGANIC CHEMISTRY	12	\$51.84	\$622.08

## Wisconsin Department of Natural Resources SWIMS Project Summary

**Total SLOH Lab Costs:**           \$622.08  
**Total Budget:**                   \$3,925.08

**Combined Budgets:**           \$3,303.00  
**Combined SLOH:**               \$622.08  
**Combined Total:**               \$3,925.08

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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