

August 17, 2017 Reference No. 086165-04-08

Mr. Phil Richard Wisconsin Department of Natural Resources 875 S 4th Avenue Park Falls. Wisconsin 54552

Dear Phil:

Re: Monthly Status Update – July 2017 Penta Wood Products Superfund Site Siren, Wisconsin

GHD Services Inc. (GHD) has prepared this monthly status update for the period of July 2017 for the Penta Wood Products Superfund Site (Site). The project budget and costs are summarized in the following Tables 1 through 4. All problems, resolutions, and/or recommended solutions with an assessment of data collected during this period will be provided in the next Semiannual Report – July through December 2017. The following is a brief summary of the work completed.

Phase 02-Tasks 01 through 23

No costs were billed to these tasks in the current invoice.

Phase 03-Task 01 Well repairs

No costs were billed to this task in the current invoice.

Phase 03-Task 02 Drilling and well installation

No costs were billed to this task in the current invoice.

Phase 03-Task 03 System decommissioning

No costs were billed to this task in the current invoice.

Phase 03-Task 04 Site safety plan

No costs were billed to this task in the current invoice.

Phase 03-Task 05 Site QA/QC plan

No costs were billed to this task in the current invoice.

Phase 03-Task 06 Waste characterization

No costs were billed to this task in the current invoice.





Phase 03-Task 07 Waste disposal

No costs were billed to this task in the current invoice.

Phase 03-Task 08 Housekeeping and grounds keeping

No costs were billed to this task in the current invoice.

Phase 03-Task 09 Quarterly groundwater/LNAPL level monitoring

No costs were billed to this task in the current invoice.

Phase 03-Task 10 Baseline groundwater well sampling

No costs were billed to this task in the current invoice.

Phase 03-Task 11 Quarterly groundwater well sampling

No costs were billed to this task in the current invoice.

Phase 03-Task 12 Semiannual residential well sampling

No costs were billed to this task in the current invoice.

Phase 03-Task 13 Quarterly reporting

No costs were billed to this task in the current invoice.

Phase 03-Task 14 Monthly reporting

No costs were billed to this task in the current invoice.

Phase 03-Task 15 Regulatory communications

No costs were billed to this task in the current invoice.

Phase 03-Task 16 Microcosm and bio-trap study

The microcosm and bio-trap study memorandum was finalized.

Phase 03-Task 17 Shallow soil and sediment investigation

Shallow soil and sediment sample analytical data were summarized and figures were prepared to
document the horizontal and vertical extent of contamination associated with continuing obligations at
the Site.

Phase 04-Task 01 Site safety plan

No costs were billed to this task in the current invoice.

Phase 04-Task 02 Site QA/QC plan

No costs were billed to this task in the current invoice.

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Phase 04-Task 03 Housekeeping and grounds keeping

- Mowing was completed on July 12, 2017.
- The building emergency shower water supply lines were blown out to protect against freezing. Water was previously supplied to the showers.
- The current invoice includes subcontractor costs (Austin Lake) for mowing.

Phase 04-Task 04 Quarterly fluid level monitoring

- The quarterly fluid level monitoring event was completed on July 12 and 13, 2017, and data was evaluated.
- The current invoice includes subcontractor costs (Field Environmental Instruments, Inc.) for rental of groundwater monitoring equipment.

Phase 04-Task 05 Semiannual monitoring well sampling

• The April 2017 semiannual monitoring well sampling data was evaluated as part of preparation of the Quarterly Report – April through June 2017 (GHD; July 14, 2017).

Phase 04-Task 06 Semiannual residential well sampling

No costs were billed to this task in the current invoice.

Phase 04-Task 07 Semiannual reporting

The Quarterly Report – April through June 2017 was prepared and submitted on July 14, 2017.

Phase 04-Task 08 Monthly reporting

- Periodic project updates were provided to WDNR.
- The project budget was updated.
- The Monthly Status Report June 2017 was prepared and submitted on July 24, 2017.

Phase 04-Task 09 Regulatory communications

• A site meeting between WDNR, USEPA, and GHD was coordinated.

Phase 04-Task 10 Shallow soil and sediment investigation data evaluation

 Shallow soil and sediment sample analytical data were evaluated to determine existing pentachlorophenol and/or arsenic concentrations at selected areas based on a statistical analysis.

Phase 04-Task 11 Soil sampling under surface debris

 Analytical data was evaluated related to soil sampling under surface debris to assess the groundwater protection pathway and potential management alternatives due to the detected contaminant concentrations in the debris.

086165Richard-46-Mthly Status Update



Should you have questions, please do not hesitate to contact us.

Sincerely,

GHD

Tim Ree

TR/sb/46

Encl.

cc: Stephanie Linebaugh, USEPA (via email)

Judy Fassbender, WDNR Madison (via email)

David Swimm, WDNR Madison (via email)

John Robinson, WDNR Wausau (via email)

Gary Edelstein, WDNR Madison (via email)

Duane Klein, WDNR Madison (via email)

Ron Frehner, GHD (via email)

Brian Sandberg, GHD (via email)

Pete Storlie, GHD (via email)

Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165

Original Scope of Work and Purchase Order

Phase	Description	Budget
02	Original Scope of Work (Table 2)	\$ 1,271,421.94
	Original Scope of Work Total	\$ 1,271,421.94

Proi	ect	Costs
	COL	00313

Current Invoice Cost (through 7/29/2017)	In	Previous voiced Cost	Total voiced Cost (through 7/29/2017)	Budget Remaining (through 7/29/2017)				
\$ -	\$	180,027.59	\$ 180,027.59	\$	1,091,394.35			
\$ -	\$	180,027.59	\$ 180,027.59	\$	1,091,394.35			

Revised Scope of Work

Phase	Description	Budget
03	2015-2016 Revised Scope of Work (Table 3)	\$ 786,897.18
04	2017 Revised Scope of Work (Table 4)	\$ 188,770.15
	Revised Scope of Work Total	\$ 975,667.33

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Р	ro	iect		osts

Inv	Current voice Cost (through //29/2017)	lnv	Previous voiced Cost	lnv	Total voiced Cost (through 7/29/2017)	Budget Remaining (through 7/29/2017)				
\$	634.25	\$	758,921.43	\$	759,555.68	\$	27,341.50			
\$	15,509.25	\$	94,604.03	\$	110,113.28	\$	78,656.87			
\$	16,143.50	\$	853,525.46	\$	869,668.96	\$	105,998.37			

Overall Budget Status 1

Original Budget	\$ 1,271,421.94
Total Invoiced Cost (through 7/29/2017)	\$ 1,049,696.55
Overall Budget Remaining (through 7/29/2017)	\$ 221,725.39

Note:

The total revised scope of work budget is less that the original scope of work purchase order budget. For overall project budget tracking purposes, the combined costs for work completed under the original purchase order and the revised scope of work are compared against the original purchase order budget.

Original Scope of Work and Purchase Order Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

Original Scope of Work and

Purchase Order Budget Project Costs Current **Previous** Total Budget Task Description Unit **Unit Cost** Budget **Invoice Cost Invoiced Cost Invoiced Cost** Remaining **Estimated** (through (through (through Quantity 7/29/2017) 7/29/2017) 7/29/2017) 01 Routine O&M Labor hours/rate estimated material 2 319,744.46 \$ 639,488.92 \$ \$ 91,595.41 91,595.41 547,893.51 equipment and rental costs and travel 2 \$ \$ \$ 02 Waste characterization Labor hours/rate estimated material 9.064.00 \$ 18.128.00 18.128.00 equipment and rental costs and travel 2 03 Waste disposal Costs plus markup 91,200.36 \$ 182,400.72 \$ \$ 182,400.72 04 Labor hours/rate estimated material 2 17,889.60 \$ 35,779.20 \$ \$ 2,742.13 \$ 2,742.13 33,037.07 Housekeeping and grounds keeping equipment and rental costs and travel Monthly soil gas monitoring 14 3,286.80 \$ 46,015.20 \$ 5,525.48 5,525.48 40,489.72 05 Each round 48 \$ 99.23 \$ \$ \$ 756.00 \$ 4.006.80 06 Treat syst inf (PCP) Each round 4.762.80 756.00 07 Treat syst eff (PCP) Each round 104 \$ 226.73 \$ 23,579.40 \$ 3,696.71 3,696.71 \$ 19,882.69 08 Treat syst eff (DRO, naphthalene) Each round 24 \$ 132.30 \$ 3.175.20 \$ 504.00 504.00 2.671.20 09 Treat syst eff (metals, chloride) 8 194.70 \$ 1.557.60 \$ 64.05 64.05 1,493.55 Each round Treat syst eff (BTEX, phenol, dioxin) 2 \$ 495.60 \$ \$ \$ \$ \$ 991.20 Each round 991.20 11 Semi-annual GW/LNAPL level Each round 4 894.00 \$ 3,576.00 746.25 746.25 \$ 2,829.75 monitoring \$ 2 20.284.30 \$ 20.228.08 \$ 20.340.52 Annual GW well sampling Each round 40.568.60 20.228.08 \$

Original Scope of Work and Purchase Order Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

Original Scope of Work and Purchase Order Budget

Project Costs

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Task	Description	Unit	Estimated Quantity	U	nit Cost		Budget		Current Invoice Cost (through 7/29/2017)	Ir	Previous avoiced Cost		Total voiced Cost (through 7/29/2017)	Budget Remaining (through 7/29/2017)
13	Semi-annual GW well sampling	Each round	2	\$	8,511.20	\$	17,022.40		\$ -	\$	-	\$	-	\$ 17,022.40
14	Semi-annual residential well sampling	Each round	4	\$	5,388.18	\$	21,552.70		\$ -	\$	5,388.63	\$	5,388.63	\$ 16,164.07
15	Semi-annual reporting	Each	4	\$	8,282.00	\$	33,128.00	:	\$ -	\$	1,236.00	\$	1,236.00	\$ 31,892.00
16	Monthly status reporting	Each	24	\$	3,523.83	\$	84,572.00		\$ -	\$	12,787.33	\$	12,787.33	\$ 71,784.67
17	Regulatory communications	Pre-approved and determined by DNR	2	\$	15,000.00	\$	30,000.00		\$ -	\$	-	\$	-	\$ 30,000.00
18	Site Safety Plan	Estimated cost not to exceed	2	\$	1,942.00	\$	3,884.00		\$ -	\$	275.50	\$	275.50	\$ 3,608.50
19	Site QA/QC Plan	Estimated cost not to exceed	2	\$	4,200.00	\$	8,400.00		\$ -	\$	-	\$	-	\$ 8,400.00
20	Alternate remedy recommendation ¹	Estimated cost not to exceed	1	\$	27,750.00	\$	27,750.00		\$ -	\$	30,695.89	\$	30,695.89	\$ (2,945.89)
21	WPDES permit updates	Estimated cost not to exceed	1	\$	3,288.00	\$	3,288.00		\$ -	\$	-	\$	-	\$ 3,288.00
22	Heating/ventilation system repairs	Labor, material, and contractor costs	1	\$	20,752.00	\$	20,752.00		\$ -	\$	1,787.50	\$	1,787.50	\$ 18,964.50
23	Well repairs	Labor, material, and contractor costs	1	\$	21,050.00	\$	21,050.00		\$ -	\$	1,998.63	\$	1,998.63	\$ 19,051.37
	1	1	Purchase	e Orde Total	er Budget	\$	1,271,421.94		\$ -	\$	180,027.59	\$	180,027.59	\$ 1,091,394.35

Notes:

WDNR approved an increase of \$3,000.00 to the Task 20 unit price due to additional work associated with evaluating existing monitoring well network, proposing additional well locations, confirming field locations; developing a microcosm and bio-trap study work plan; assessing microbial biological tools (MBTs) and environmental molecular diagnostics (EMDs).

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work

and Budget **Project Costs** Budget Estimated Current Previous Total Task Description Unit Quantity **Unit Cost** Budget **Invoice Cost Invoiced Cost Invoiced Cost** Remaining (through (through (through 7/29/2017) 7/29/2017) 7/29/2017) 01 Well repairs 1 20,663.30 \$ 20,663.30 \$ \$ 20.663.30 20.663.30 Lump sum 02 Drilling and well installation Lump sum 1 63,369.90 \$ 63,369.90 \$ \$ 60,825.82 \$ 60,825.82 \$ 2,544.08 \$ 03 1 82,778.80 \$ 82,778.80 82.730.39 \$ 82.730.39 \$ 48.41 System decommissioning Lump sum \$ \$ Site safety plan Plan 1 3,372.50 \$ 3,372.50 3,322.28 \$ 3,322.28 50.22 Site QA/QC plan Plan 1 6,829.50 \$ \$ \$ 4,958.97 6.829.50 \$ 4,958.97 1,870.53 \$ 06 Waste characterization Lump sum 1 20.810.00 \$ 20.810.00 \$ 17.752.46 17.752.46 \$ 3.057.54 \$ 173,149.00 \$ 173,149.00 \$ 172.925.73 \$ 07 Waste disposal 1 172.925.73 \$ 223.27 Lump sum 1 16,545.30 \$ \$ 15,132.83 15,132.83 80 Housekeeping and grounds keeping Lump sum 16,545.30 1,412.47 Quarterly fluid level monitoring 4 3,471.65 \$ 13,886.60 \$ 13,730.30 \$ 13,730.30 \$ 156.30 Event

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work

					and Budget				Projec	t Co	sts	
Task	Description	Unit	Estimated Quantity	ι	Jnit Cost	Budget	Current Invoice Cost (through 7/29/2017)	In	Previous voiced Cost		Total voiced Cost (through 7/29/2017)	Budget Remaining (through 7/29/2017)
10	Baseline groundwater sampling	Event	1	\$	74,916.75	\$ 74,916.75		\$	74,432.36	\$	74,432.36	\$ 484.39
11	Quarterly monitoring well sampling	Event	3	\$	26,278.28	\$ 78,834.84	\$ -	\$	78,834.84	\$	78,834.84	\$ -
12	Semiannual residential well sampling	Event	2	\$	4,194.89	\$ 8,389.78	\$ -	\$	8,374.91	\$	8,374.91	\$ 14.87
13	Quarterly reporting	Report	4	\$	8,339.00	\$ 33,356.00	\$ -	\$	33,293.12	\$	33,293.12	\$ 62.88
14	Monthly reporting	Report	14	\$	2,792.65	\$ 39,097.10	\$ -	\$	38,060.73	\$	38,060.73	\$ 1,036.37
15	Regulatory communications	Pre-approved and determined by DNR	1	\$	15,000.00	\$ 15,000.00	\$ -	\$	4,418.94	\$	4,418.94	\$ 10,581.06
16	Microcosm and bio-trap study	Lump sum	1	\$	45,793.40	\$ 45,793.40	\$ 116.25	\$	45,540.70	\$	45,656.95	\$ 136.45
17	Shallow soil and sediment investigation	Pre-approved and determined by DNR	1	\$	55,119.50	\$ 55,119.50	\$ -	\$	55,119.50	\$	55,119.50	\$ -
			2015-2016	Budg	get Subtotal	\$ 751,912.27	\$ 116.25	\$	730,117.18	\$	730,233.43	\$ 21,678.84

Project Costs

Table 3

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work and Budget

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Task	Description	Unit	Estimated Quantity		nit Cost	Budget		ı	Current Invoice Cost (through 7/29/2017)		Invoiced Cost										Previous Invoiced Cost		Total voiced Cost (through 7/29/2017)	(Budget emaining (through /29/2017)
WDNR	Approved Additional Costs																								
11	Quarterly monitoring well sampling ¹	Event	3	\$	2,813.37	\$	8,440.11	\$	-	\$	8,440.11	\$	8,440.11	\$	-										
01	Well repairs ²	Lump sum	1	\$	8,184.00	\$	8,184.00	\$	-	\$	3,850.70	\$	3,850.70	\$	4,333.30										
11	Quarterly monitoring well sampling ³	Event	1	\$	2,260.38	\$	2,260.38	\$	-	\$	950.72	\$	950.72	\$	1,309.66										
17	Shallow soil and sediment investigation ⁴	Lump sum	1	\$	16,100.42	\$	16,100.42	\$	518.00	\$	15,562.72	\$	16,080.72	\$	19.70										
				2015-2016 Approved Additional Costs Subtotal		\$	34,984.91	\$	518.00	\$	28,804.25	\$	29,322.25	\$	5,662.66										
			_	15-20 ⁻ lget To	-	\$	786,897.18	\$	634.25	\$	758,921.43	\$	759,555.68	\$	27,341.50										

Notes:

- WDNR approved an increase of \$8,440.11 (\$2,813.37 per event unit cost) to the Task 11 budget due to additional work associated with collection and laboratory analysis of three additional groundwater monitoring well samples (MW23, MW25, and EW13S) during three quarterly events.
- WDNR approved an increase of \$8,184.00 to the Task 01 budget due to additional well repair work.
- WDNR approved an increase of \$2,260.38 to the Task 11 budget due to sampling at wells MW4 and MW14 during one quarterly event.
- WDNR approved an increase of \$16,100.42 to the Task 17 budget to complete the shallow soil and sediment investigation.

2017 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 04 - January 1, 2017 - December 31, 2017

2017 Revised Scope of Work

and Budget Project Costs

		1			and budget											
			Estimated						C	Current		Previous		Total		Budget
Task	Description	Unit	Quantity	ι	Unit Cost		Budget		(t	oice Cost hrough 29/2017)	lnv	oiced Cost	Invoiced Cost (through 7/29/2017)			Remaining (through 7/29/2017)
01	Site safety plan	Plan	1	\$	1,310.50	\$	1,310.50		\$	-	\$	1,303.56	\$	1,303.56	\$	6.94
02	Site QA/QC plan	Plan	1	\$	2,098.00	\$	2,098.00		\$	-	\$	•	\$	-	\$	2,098.00
03	Housekeeping and grounds keeping	Lump sum	1	\$	15,381.60	\$	15,381.60		\$	1,303.99	\$	5,390.01	\$	6,694.00	\$	8,687.60
04	Quarterly fluid level monitoring	Event	4	\$	3,471.60	\$	13,886.40		\$	1,794.93	\$	3,676.67	\$	5,471.60	\$	8,414.80
05	Semiannual monitoring well sampling	Event	2	\$	26,278.28	\$	52,556.56		\$	487.50	\$	34,841.26	\$	35,328.76	\$	17,227.80
06	Semiannual residential well sampling	Event	2	\$	4,194.89	\$	8,389.78		\$	-	\$	4,856.13	\$	4,856.13	\$	3,533.65
07	Semiannual reporting	Report	2	\$	6,201.00	\$	12,402.00		\$	1,250.95	\$	10,936.28	\$	12,187.23	\$	214.77
08	Monthly reporting	Report	12	\$	1,594.00	\$	19,128.00		\$	1,783.83	\$	9,970.11	\$	11,753.94	\$	7,374.06
09	Regulatory communications	Pre-approved and determined by DNR	1	\$	15,000.00	\$	15,000.00		\$	81.25	\$	8,448.91	\$	8,530.16	\$	6,469.84
			2017 Bud	dget	Subtotal	\$	140,152.84		\$	6,702.45	\$	79,422.93	\$	86,125.38	\$	54,027.46

Project Costs

Table 4

2017 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 04 - January 1, 2017 - December 31, 2017

2017 Revised Scope of Work and Budget

		Commant Previous Total Di																	
			Estimated						Current		Previous		Total		Budget				
Task	Description	Unit	Quantity	Unit	Cost		Budget	In	Invoice Cost		Invoice Cost		oiced Cost	ln۱	oiced Cost	R	emaining		
									(through		(through			(through			(through		
								7	7/29/2017)		7/29/2017)		7/29/2017)			7	7/29/2017)		/29/2017)
				•	,								-						
WDNR	Approved Additional Costs																		
05	Semiannual monitoring well sampling ¹	Event	2	\$ 8	3,782.42	\$	17,564.83	\$	-	\$	-	\$	-	\$	17,564.83				
	3 1 11 7																		
40	Challess sell and andimont investigation	1	1	C 44	1 000 00	Φ.	44 000 00	•	F F00 00	Φ.	000.40	Φ.	0.500.00	Φ.	4.500.00				
10	Shallow soil and sediment investigation	Lump sum	1	\$ 11	1,089.20	\$	11,089.20	\$	5,599.80	\$	920.40	\$	6,520.20	\$	4,569.00				
	data evaluation ²																		
11	Soil sampling under surface debris ³	Lump sum	1	\$ 19	9,963.28	\$	19,963.28	\$	3,207.00	\$	14,260.70	\$	17,467.70	\$	2,495.58				
	Soil sampling under surface debris			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	7,7,7,7,1	•	2,221102	*	,	*	,	*	_,				
			2017 Appr	oved Add	ditional		40.047.04			•	45 404 40		~~ ~~		0.4.000.44				
			Cost	s Subtota	al	\$	48,617.31	\$	8,806.80	\$	15,181.10	\$	23,987.90	\$	24,629.41				
				2017															
						\$	188,770.15	\$	15,509.25	\$	94,604.03	\$	110,113.28	\$	78,656.87				
			Биа	get Tota	I														

Notes:

- WDNR approved an increase of \$17,564.83 (\$8,782.42 per event unit cost) to the Task 5 budget due to additional groundwater sampling at wells (MW4, MW14, MW23, MW25, and EW13S) during two semiannual events.
- WDNR approved an increase of \$11,089.20 to a new Task 10 budget due to a shallow soil and sediment data evaluation.
- WDNR approved an increase of \$19,963.28 to a new Task 11 budget due to soil sampling under surface debris.