

January 24, 2018 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 – December 2017 Penta Wood Products Superfund Site Siren. Wisconsin

GHD Services Inc. (GHD) has prepared this monthly status update for the period of December 2017 for the Penta Wood Products Superfund Site (Site). The project budget and costs are summarized in the following Tables 1 through 5. 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-Tasks 01 through 17

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

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.

Phase 04-Task 03 Housekeeping and grounds keeping

Snow plowing and annual backflow preventer inspection/maintenance work was coordinated.

Phase 04-Task 04 Quarterly fluid level monitoring

The January 2018 groundwater level monitoring event was coordinated.

Phase 04-Task 05 Semiannual monitoring well sampling

- The October 2017 groundwater sampling data was evaluated.
- The current invoice includes subcontractor costs (Field Environmental Instruments) for the rental of groundwater monitoring and sampling equipment during the October 2017 event.





Phase 04-Task 06 Semiannual residential well sampling

- A data validation memorandum was prepared for the October 2017 semiannual residential well sampling event.
- The current invoice includes laboratory costs (TestAmerica) for the October 2017 residential well sample analyses.

Phase 04-Task 07 Semiannual reporting

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

Phase 04-Task 08 Monthly reporting

- Periodic project updates were provided to WDNR.
- USEPA and WDNR conference call preparations were completed.
- The project budget was updated and costs for work during 2018 were estimated.
- Change Order No. 4 was executed for Site work during 2018.
- The Monthly Status Report November 2017 was prepared and submitted on December 20, 2017.

Phase 04-Task 09 Regulatory communications

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

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

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

Phase 04-Task 11 Soil sampling under surface debris

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

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

Sincerely,

GHD

Tim Ree

TR/sb/52

Encl.

cc: Stephanie Linebaugh, USEPA (via email)

Judy Fassbender, WDNR Madison (via email) David Swimm, 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)

086165Richard-52-Mthly Status Update

2

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

	Projec	t Costs
Current	Previous	To

Current Invoice Cost (through 12/30/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 12/30/2017)	Budget Remaining (through 12/30/2017)				
\$ -	\$ 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
05	2018 Revised Scope of Work (Table 5)	\$ 183,434.25
	Revised Scope of Work Total	\$ 1,159,101.58

Project Costs

Inv (1	Current oice Cost through /30/2017)	Previous oiced Cost	 Total voiced Cost (through 2/30/2017)	Budget Remaining (through 12/30/2017)				
\$	-	\$ 759,555.68	\$ 759,555.68	\$	27,341.50			
\$	7,062.80	\$ 153,662.75	\$ 160,725.55	\$	28,044.60			
\$		\$ -	\$ -	\$	183,434.25			
\$	7,062.80	\$ 913,218.43	\$ 920,281.23	\$	238,820.35			

Overall Budget Status 1

Overall Baaget Otatas	
Original Budget	\$ 1,271,421.94
Total Invoiced Cost (through 12/30/2017)	\$ 1,100,308.82
Overall Budget Remaining (through 12/30/2017)	\$ 171,113.12
Contingency	\$ 64,000.00
Overall Budget Remaining with Contingency (through 12/30/2017)	\$ 235,113.12

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 Budget Current Previous Total

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Inv	oice Cost through /30/2017)	Inv	Invoiced Cost		Invoiced Cost		Invoiced Cost		oiced Cost (through 2/30/2017)	Remaining (through 2/30/2017)
01	Routine O&M	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 319,744.46	\$ 639,488.92	\$	-	\$	91,595.41	\$	91,595.41	\$ 547,893.51				
02	Waste characterization	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 9,064.00	\$ 18,128.00	\$	-	\$	-	\$	-	\$ 18,128.00				
03	Waste disposal	Costs plus markup	2	\$ 91,200.36	\$ 182,400.72	\$	-	\$	-	\$	-	\$ 182,400.72				
04	Housekeeping and grounds keeping	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 17,889.60	\$ 35,779.20	\$	-	\$	2,742.13	\$	2,742.13	\$ 33,037.07				
05	Monthly soil gas monitoring	Each round	14	\$ 3,286.80	\$ 46,015.20	\$	-	\$	5,525.48	\$	5,525.48	\$ 40,489.72				
06	Treat syst inf (PCP)	Each round	48	\$ 99.23	\$ 4,762.80	\$	-	\$	756.00	\$	756.00	\$ 4,006.80				
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)	Each round	8	\$ 194.70	\$ 1,557.60	\$	-	\$	64.05	\$	64.05	\$ 1,493.55				
10	Treat syst eff (BTEX, phenol, dioxin)	Each round	2	\$ 495.60	\$ 991.20	\$	-	\$	-	\$	-	\$ 991.20				
11	Semi-annual GW/LNAPL level monitoring	Each round	4	\$ 894.00	\$ 3,576.00	\$	-	\$	746.25	\$	746.25	\$ 2,829.75				
12	Annual GW well sampling	Each round	2	\$ 20,284.30	\$ 40,568.60	\$	-	\$	20,228.08	\$	20,228.08	\$ 20,340.52				

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

Task	Description	Unit	Estimated Quantity	ι	Jnit Cost	Budget		Current Invoice Cost (through 12/30/2017)	Previous Invoiced Cost	Total voiced Cost (through 2/30/2017)	Budget Remaining (through 12/30/2017)
13	Semi-annual GW well sampling	Each round	2	\$	8,511.20	\$ 17,022.40	Ī	\$ -	\$ -	\$ -	\$ 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	F	\$ -	\$ 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
		,		Ord Tota	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 **Unit Cost** Budget **Invoice Cost** Invoiced Cost Remaining Quantity **Invoiced Cost** (through (through (through 12/30/2017) 12/30/2017) 12/30/2017) 01 Well repairs 20,663.30 \$ 20,663.30 \$ 20,663.30 \$ 20,663.30 Lump sum 1 \$ 02 Drilling and well installation Lump sum 1 63,369.90 63.369.90 60.825.82 \$ 60,825.82 \$ 2.544.08 \$ 03 System decommissioning Lump sum 1 82,778.80 82,778.80 \$ 82,730.39 \$ 82,730.39 \$ 48.41 04 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 6.829.50 \$ \$ 4.958.97 \$ 4.958.97 \$ 05 1.870.53 06 Waste characterization 1 20,810.00 \$ 20,810.00 \$ 17,752.46 \$ 17,752.46 \$ 3,057.54 Lump sum 1 \$ 173,149.00 172,925.73 \$ 223.27 07 Waste disposal \$ 173,149.00 172,925.73 \$ Lump sum 80 Housekeeping and grounds keeping Lump sum 1 16,545.30 \$ 16,545.30 15,132.83 \$ 15,132.83 \$ 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 **Project Costs** Budget Estimated Current Previous Total Task Description Unit **Unit Cost Invoiced Cost** Remaining Quantity Budget **Invoice Cost Invoiced Cost** (through (through (through 12/30/2017) 12/30/2017) 12/30/2017) Baseline groundwater sampling \$ 74,916.75 \$ 74,916.75 74,432.36 \$ Event 1 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 39.097.10 \$ 14 Monthly reporting Report 14 2.792.65 38.060.73 \$ 38.060.73 \$ 1.036.37 Pre-approved and 15 Regulatory communications 1 15,000.00 \$ 15,000.00 \$ \$ 4,418.94 \$ 4,418.94 \$ 10,581.06 determined by DNR 1 45.656.95 \$ Microcosm and bio-trap study 45,793.40 45,793.40 45.656.95 \$ 136.45 Lump sum 17 Shallow soil and sediment Pre-approved and 1 55,119.50 \$ 55,119.50 55,119.50 \$ 55,119.50 \$ investigation determined by DNR 2015-2016 Budget \$ 751,912.27 \$ 730,233.43 \$ 730.233.43 \$ 21.678.84 Subtotal

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

				u	ina Baaget	•				1 10,00		313			
Task	Description	Unit	Estimated Quantity		nit Cost		Budget	Curre Invoice		Previous oiced Cost	In	Total voiced Cost		Budget emaining	
luon		S	Quantity				Laagot	(through 12/30/2017)				(through 2/30/2017)	((through 2/30/2017)	
WDNF	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	\$	-	\$ 16,080.72	\$	16,080.72	\$	19.70	
			2015-20 Additional	_	-	\$	34,984.91	\$	-	\$ 29,322.25	\$	29,322.25	\$	5,662.66	
			_	15-20 ⁻	_	\$	786,897.18	\$	-	\$ 759,555.68	\$	759,555.68	\$	27,341.50	

Notes:

- 1 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.
- 4 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

			ana Buaget							Project						
			Estimated						(Current		Previous		Total		Budget
Task	Description	Unit	Quantity	U	nit Cost		Budget		Inv	oice Cost	Inv	oiced Cost	Inv	voiced Cost	R	emaining
	•						Ū		(1	through				(through		(through
									,	/30/2017)				2/30/2017)		2/30/2017)
01	Site safety plan	Plan	1	\$	1,310.50	\$	1,310.50	 	\$	130/2017)	\$	1,303.56	\$	1,303.56		6.94
01	Site salety plan	Pian	l '	Ф	1,310.50	Ф	1,310.50		Ф	-	Ф	1,303.56	Ф	1,303.30	Ф	6.94
	01. 04/00 1			_		_			_		_		_		_	
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		\$	680.50	\$	9,137.71	\$	9,818.21	\$	5,563.39
00	Trousekeeping and grounds keeping	Eurip 3um	'	Ψ	10,001.00	Ψ	10,001.00		Ψ	000.00	Ψ	5,157.71	Ψ	3,010.21	Ψ	3,300.00
04	Quarterly fluid level monitoring	Event	4	\$	3,471.60	\$	13,886.40		\$	162.50	\$	8,829.52	\$	8,992.02	\$	4,894.38
	January 1 and 1 and 1			•	-,	•	2,222		Ť		Ť	2,2 2 2	·	-,	,	,
05	Semiannual monitoring well sampling	Event	2	\$	26,278.28	\$	52,556.56	İİ	\$	-	\$	52,556.56	\$	52,556.56	\$	-
					•							·				
06	Semiannual residential well sampling	Event	2	\$	4,194.89	\$	8,389.78		\$	2,544.88	\$	5,801.63	\$	8,346.51	\$	43.27
07	Semiannual reporting	Report	2	\$	6,201.00	\$	12,402.00	İ	\$	-	\$	12,187.23	\$	12,187.23	\$	214.77
08	Monthly reporting	Report	12	\$	1,594.00	\$	19,128.00	İ	\$	2,623.25	\$	15,816.58	\$	18,439.83	\$	688.17
09	Regulatory communications	Pre-approved and	1	\$	15,000.00	\$	15,000.00		\$	-	\$	9,098.16	\$	9,098.16	\$	5,901.84
		determined by DNR														
			2017 Bud	lget S	Subtotal	\$	140,152.84		\$	6,011.13	\$	114,730.95	\$	120,742.08	\$	19,410.76
								i L								

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						Projec	t Co	sts			
Task	Estimated Unit Quantity		Unit Cost	Budget			Current Invoice Cost (through 12/30/2017)	In	Previous voiced Cost		Total voiced Cost (through 12/30/2017)	R(Budget emaining (through 2/30/2017)		
WDNR	Approved Additional Costs														
05	Semiannual monitoring well sampling ¹	Event	2	\$ 8,782.42	\$	17,564.83	\$	1,051.67	\$	8,861.72	\$	9,913.39	\$	7,651.44	
10	Shallow soil and sediment investigation data evaluation ²	Lump sum	1	\$ 11,089.20	\$	11,089.20		\$ -	\$	10,882.63	\$	10,882.63	\$	206.57	
11	Soil sampling under surface debris ³	Lump sum	1	\$ 19,963.28	\$	19,963.28		\$ -	\$	19,187.45	\$	19,187.45	\$	775.83	
				oved Additional s Subtotal	\$	48,617.31	4	1,051.67	\$	38,931.80	\$	39,983.47	\$	8,633.84	
				2017 get Total	\$	188,770.15	4	7,062.80	\$	153,662.75	\$	160,725.55	\$	28,044.60	

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.
- 3 WDNR approved an increase of \$19,963.28 to a new Task 11 budget due to soil sampling under surface debris.

2018 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 05 - January 1, 2018 - December 31, 2018

2018 Revised Scope of Work

and Budget **Project Costs** Estimated Current Previous Budget Total Task Description Unit Quantity **Unit Cost** Budget **Invoice Cost Invoiced Cost Invoiced Cost** Remaining (through (through (through 12/30/2017) 12/30/2017) 12/30/2017) Plan 1 1,421.50 \$ Site safety plan preparation 1,421.50 \$ \$ 1,421.50 \$ 2 House keeping and grounds keeping 1 17,975.25 \$ 17,975.25 \$ \$ 17,975.25 Time and materials Quarterly groundwater/LNAPL level Event 4 3,846.50 \$ 15,386.00 \$ \$ 15,386.00 monitoring \$ \$ 4 Semiannual groundwater well sampling Event 2 36,248.75 \$ 72,497.50 \$ 72,497.50 Semiannual residential well sampling 2 \$ 18,338.00 \$ \$ \$ \$ 18,338.00 5 Event 9,169.00 2 \$ 6 Semiannual reporting 7,653.00 15,306.00 \$ \$ \$ 15,306.00 Report 7 Monthly reporting Report 12 2,114.00 \$ 25,368.00 \$ \$ \$ 25,368.00 8 Tier II reporting (2017 wastes) 2,142.00 2,142.00 \$ \$ \$ \$ 2,142.00 Report 1 \$ 9 Regulatory communications Pre-approved by 1 15,000.00 15,000.00 \$ 15,000.00 WDNR 2018 \$ 183,434.25 \$ \$ \$ 183,434.25 **Budget Total**