



April 4, 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 – February 2017
Penta Wood Products Superfund Site
Siren, Wisconsin**

GHD Services Inc. (GHD) has prepared this monthly status update for the period of February 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 Quarterly Report – January through March 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

- The current invoice includes the drilling subcontractor (Thein Well) costs for completing repairs at wells MW4 and MW14.

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

- Wood debris, drum remnants, and saw dust sampling and characterization laboratory results were evaluated to develop a soil sampling plan under the debris.



Phase 03-Task 07 Waste disposal

- Profiling and disposal of the water treatment chemicals were coordinated.
- Communicated with the disposal company.
- RCRA waste generator rules were evaluated to determine appropriate status for the Site related to future water treatment chemical removal.

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

- The January 2017 quarterly groundwater monitoring and sampling data was evaluated.

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

- The January 2017 quarterly groundwater sampling data evaluated.
- The current invoice includes laboratory subcontractor (TestAmerica) costs for analyzing the groundwater samples.

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

- Periodic project updates were provided to WDNR.
- The project budget was updated.

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 continued. The most recent results were evaluated.



Phase 03-Task 17 Shallow soil and sediment investigation

- Soil and sediment sampling data from wetland north of well MW13 (identified as Area 29 in the Remedial Action Report (CH2M HILL; September 2000) was evaluated. Summary tables and figures were prepared.
- Drilling cost estimates were obtained for additional shallow soil and sediment sampling.
- The current invoice includes laboratory subcontractor (TestAmerica) costs for analyzing the soil/sediment samples.

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

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

Phase 04-Task 04 Quarterly fluid level monitoring

- The April 2017 quarterly fluid level monitoring event was coordinated.

Phase 04-Task 05 Semiannual monitoring well sampling

- The April 2017 semiannual monitoring well sampling event was coordinated.

Phase 04-Task 06 Semiannual residential well sampling

- The April 2017 semiannual residential well sampling event was coordinated.

Phase 04-Task 07 Semiannual reporting

- Portions of the Quarterly Progress Report – January through March 2017 were prepared.

Phase 04-Task 08 Monthly reporting

- Periodic project updates were provided to WDNR.
- The project budget was updated.
- The Monthly Status Report – January 2017 was prepared and subsequently submitted on March 2, 2017.

Phase 04-Task 09 Regulatory communications

- A meeting between GHD and WDNR was held on February 21, 2017 to discuss the project.



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

Sincerely,

GHD

A handwritten signature in blue ink, appearing to read "Tim Ree", with a long horizontal flourish extending to the right.

Tim Ree

TR/sb/40

Encl.

cc: Stephanie Linebaugh, USEPA (via email)
Viral Patel, 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)

Table 1

**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 |

Project Costs

| Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) |
|--|------------------------|---|--------------------------------------|
| \$ - | \$ 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) | \$ 140,152.84 |
| Revised Scope of Work Total | | \$ 927,050.02 |

Project Costs

| Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) |
|--|------------------------|---|--------------------------------------|
| \$ 38,827.51 | \$ 659,798.51 | \$ 698,626.02 | \$ 88,271.16 |
| \$ 11,837.01 | \$ 1,562.56 | \$ 13,399.57 | \$ 126,753.27 |
| \$ 50,664.52 | \$ 661,361.07 | \$ 712,025.59 | \$ 215,024.43 |

Overall Budget Status ¹

| | |
|---|------------------------|
| Original Budget | \$ 1,271,421.94 |
| Total Invoiced Cost (through 2/26/2017) | \$ 892,053.18 |
| Overall Budget Remaining (through 2/26/2017) | \$ 379,368.76 |

Note:

- 1 The total revised scope of work budget is less than 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.

Table 2

**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 | Unit Cost | Budget | Project Costs | | | |
|------|---------------------------------------|---|--------------------|---------------|---------------|--|------------------------|---|--------------------------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) |
| 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 |

Table 2

**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

| Task | Description | Unit | Estimated Quantity | Unit Cost | Budget | Project Costs | | | |
|------------------------------------|--|---------------------------------------|--------------------|--------------|------------------------|--|------------------------|---|--------------------------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) |
| 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 |
| Purchase Order Budget Total | | | | | \$ 1,271,421.94 | \$ - | \$ 180,027.59 | \$ 180,027.59 | \$ 1,091,394.35 |

Notes:

- 1 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).

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**

Project Costs

| Task | Description | Unit | Estimated Quantity | Unit Cost | Budget | Project Costs | | | |
|------|----------------------------------|----------|--------------------|---------------|---------------|--|------------------------|---|--------------------------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) |
| 01 | Well repairs | Lump sum | 1 | \$ 20,663.30 | \$ 20,663.30 | \$ - | \$ 20,663.30 | \$ 20,663.30 | \$ - |
| 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 |
| 05 | Site QA/QC plan | Plan | 1 | \$ 6,829.50 | \$ 6,829.50 | \$ - | \$ 4,958.97 | \$ 4,958.97 | \$ 1,870.53 |
| 06 | Waste characterization | Lump sum | 1 | \$ 20,810.00 | \$ 20,810.00 | \$ 81.25 | \$ 17,430.96 | \$ 17,512.21 | \$ 3,297.79 |
| 07 | Waste disposal | Lump sum | 1 | \$ 173,149.00 | \$ 173,149.00 | \$ 834.25 | \$ 150,699.48 | \$ 151,533.73 | \$ 21,615.27 |
| 08 | Housekeeping and grounds keeping | Lump sum | 1 | \$ 16,545.30 | \$ 16,545.30 | \$ - | \$ 15,132.83 | \$ 15,132.83 | \$ 1,412.47 |
| 09 | Quarterly fluid level monitoring | Event | 4 | \$ 3,471.65 | \$ 13,886.60 | \$ 5,814.89 | \$ 5,420.95 | \$ 11,235.84 | \$ 2,650.76 |

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**

Project Costs

| Task | Description | Unit | Estimated Quantity | Unit Cost | Budget | Project Costs | | | | |
|------|---|------------------------------------|--------------------|--------------|----------------------------------|--|------------------------|---|--------------------------------------|---------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) | |
| 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 | \$ 3,212.80 | \$ 75,622.04 | \$ 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 | \$ 743.00 | \$ 37,317.73 | \$ 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 | \$ 1,195.83 | \$ 40,373.34 | \$ 41,569.17 | \$ 4,224.23 | |
| 17 | Shallow soil and sediment investigation | Pre-approved and determined by DNR | 1 | \$ 55,119.50 | \$ 55,119.50 | \$ 14,707.86 | \$ 24,123.19 | \$ 38,831.05 | \$ 16,288.45 | |
| | | | | | 2015-2016 Budget Subtotal | \$ 751,912.27 | \$ 26,589.88 | \$ 659,140.61 | \$ 685,730.49 | \$ 66,181.78 |

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**

Project Costs

| Task | Description | Unit | Estimated Quantity | Unit Cost | Budget | Project Costs | | | | |
|------|--|----------|--------------------|--------------|---|--|------------------------|---|--------------------------------------|---------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) | |
| 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 | \$ 3,192.80 | \$ 657.90 | \$ 3,850.70 | \$ 4,333.30 | |
| 11 | Quarterly monitoring well sampling ³ | Event | 1 | \$ 2,260.38 | \$ 2,260.38 | \$ 604.72 | \$ - | \$ 604.72 | \$ 1,655.66 | |
| 17 | Shallow soil and sediment investigation ⁴ | Lump sum | 1 | \$ 16,100.42 | \$ 16,100.42 | \$ - | \$ - | \$ - | \$ 16,100.42 | |
| | | | | | 2015-2016 Approved Additional Costs Subtotal | \$ 34,984.91 | \$ 12,237.63 | \$ 657.90 | \$ 12,895.53 | \$ 22,089.38 |
| | | | | | 2015-2016 Budget Total | \$ 786,897.18 | \$ 38,827.51 | \$ 659,798.51 | \$ 698,626.02 | \$ 88,271.16 |

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.
- 2 WDNR approved an increase of \$8,184.00 to the Task 01 budget due to additional well repair work.
- 3 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.

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**

Project Costs

| Task | Description | Unit | Estimated Quantity | Unit Cost | Budget | Project Costs | | | | |
|------|--------------------------------------|------------------------------------|--------------------|--------------|--------------------------|--|------------------------|---|--------------------------------------|----------------------|
| | | | | | | Current Invoice Cost (through 2/26/2017) | Previous Invoiced Cost | Total Invoiced Cost (through 2/26/2017) | Budget Remaining (through 2/26/2017) | |
| 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 | \$ - | \$ 259.00 | \$ 259.00 | \$ 15,122.60 | |
| 04 | Quarterly fluid level monitoring | Event | 4 | \$ 3,471.60 | \$ 13,886.40 | \$ 388.50 | \$ - | \$ 388.50 | \$ 13,497.90 | |
| 05 | Semiannual monitoring well sampling | Event | 2 | \$ 26,278.28 | \$ 52,556.56 | \$ 615.75 | \$ - | \$ 615.75 | \$ 51,940.81 | |
| 06 | Semiannual residential well sampling | Event | 2 | \$ 4,194.89 | \$ 8,389.78 | \$ 551.00 | \$ - | \$ 551.00 | \$ 7,838.78 | |
| 07 | Semiannual reporting | Report | 2 | \$ 6,201.00 | \$ 12,402.00 | \$ 3,018.38 | \$ - | \$ 3,018.38 | \$ 9,383.62 | |
| 08 | Monthly reporting | Report | 12 | \$ 1,594.00 | \$ 19,128.00 | \$ 1,794.13 | \$ - | \$ 1,794.13 | \$ 17,333.87 | |
| 09 | Regulatory communications | Pre-approved and determined by DNR | 1 | \$ 15,000.00 | \$ 15,000.00 | \$ 5,469.25 | \$ - | \$ 5,469.25 | \$ 9,530.75 | |
| | | | | | 2017 Budget Total | \$ 140,152.84 | \$ 11,837.01 | \$ 1,562.56 | \$ 13,399.57 | \$ 126,753.27 |