

Richard, Philip E - DNR

Rec 11/4/15
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(99)

From: Ree, Timothy <Tim.Ree@ghd.com>
Sent: Wednesday, November 04, 2015 8:35 AM
To: Richard, Philip E - DNR
Subject: Penta Wood - October 2015 Groundwater Sample Results ~COR-086165~
Attachments: Lab Report-240-56556-1-086165-02-12-2015-10-25.pdf; Lab Report-240-56644-1-086165-02-12-2015-10-28.pdf; Lab Report-240-56690-1-086165-02-12-2015-10-28.pdf; 20151104075157278.pdf; 086165-Groundwater Sample Summary October 2015.pdf

Phil,

Please find attached copies of the lab reports for groundwater sampling conducted at the Penta Wood site in October 2015. Also attached for your reference are a draft table summarizing the groundwater sample analytical data and figures with PCP concentrations. The results are generally consistent with recent sampling events.

Regards,
Tim Ree

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ANALYTICAL REPORT

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TestAmerica Job ID: 240-56556-1
Client Project/Site: 86165-02-12, Penta Wood

For:
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Attn: Mr. Grant Anderson



Authorized for release by:
10/25/2015 11:29:49 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



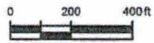
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Source: DigitalGlobe 2011



LEGEND

- ◻ EXTRACTION WELL NEST
- BIOVENTING WELL
- ▲ SOIL GAS WELL NEST
- UNCONFINED MONITORING WELL LOCATION
- ⊙ PROPOSED UNCONFINED MONITORING WELL LOCATION

- SEMICONFINED MONITORING WELL LOCATION
- ⊙ PROPOSED SOIL BORING LOCATION
- WATER SUPPLY WELL LOCATION
- RESIDENTIAL WELL LOCATION
- PCP CONCENTRATION CONTOUR (µg/L)
- - - APPROXIMATE LNAPL LIMIT
- PROPOSED GROUNDWATER MONITORING WELL SAMPLE LOCATION



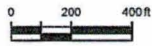
PENTA WOOD PRODUCTS SUPERFUND SITE
 SIREN, WISCONSIN
 REMEDIATION SYSTEM SHUTDOWN PILOT STUDY WORK PLAN
PCP CONCENTRATIONS (OCTOBER 2015)
 UNCONFINED (UPPER) AQUIFER MONITORING PLAN

086165-02-20
 Oct 23, 2015

FIGURE 2.1



Source: DigitalGlobe 2011



LEGEND

- EXTRACTION WELL NEST
- BIOVENTING WELL
- ▲ SOIL GAS WELL NEST
- UNCONFINED MONITORING WELL LOCATION
- ⊙ PROPOSED UNCONFINED MONITORING WELL LOCATION
- SEMICONFINED MONITORING WELL LOCATION
- WATER SUPPLY WELL LOCATION
- RESIDENTIAL WELL LOCATION
- PCP CONCENTRATION CONTOUR (µg/L)
- PROPOSED GROUNDWATER MONITORING WELL SAMPLE LOCATION



PENTA WOOD PRODUCTS SUPERFUND SITE
 SIREN, WISCONSIN
 REMEDIATION SYSTEM SHUTDOWN PILOT STUDY WORK PLAN
PCP CONCENTRATIONS (OCTOBER 2015)
 SEMICONFINED (LOWER) AQUIFER MONITORING PLAN

086165-02-20
 Oct 23, 2015

FIGURE 2.2

TABLE 2.3

GROUNDWATER ANALYTICAL DATA - MONITORING WELLS
PENTA WOOD PRODUCTS SUPERFUND SITE
SIREN, WISCONSIN

Sample Location	Sample Identification	Sample Date	Alkalinity, total (as CaCO3) mg/L	Chloride ³ mg/L	Hardness, carbonate mg/L	Nitrate (as N) mg/L	Sulfate ³ mg/L	TOC averages mg/L	Methane (dissolved) ug/L ⁸	Arsenic (dissolved) ug/L	Copper (dissolved) ug/L	Iron (dissolved) ³ ug/L	Manganese (dissolved) ³ ug/L	Zinc (dissolved) ³ ug/L	Pentachlorophenol ug/L	Naphthalene ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes (total) ug/L
		ES ¹	-	250	-	10	250	-	-	10	1300	300	300	5000	1	100	5	800	700	2000
		PAL ²	-	125	-	2	125	-	-	1	130	150	60	2500	0.1	10	0.5	160	140	400
Semiconfined Aquifer (Lower)																				
MW3	W-151015-PS-M-16	10/15/2015	258 B	52.5	322	1.7	11.1	1.1	5.1	ND	0.93 J	58.2 J	7.4	ND	0.15	ND	ND	ND	ND	ND
MW3	W-151015-PS-M-17	10/15/2015	258 B	52.3	312	1.7	11.2 F1	1.2	5.7	ND	1.2 J	56.6 J	7.9	ND	0.23	ND	ND	ND	ND	ND
MW7	W-151012-PS-M-02	10/12/2015	228 B	8.3	229	1.5	46.2	0.85 J	6.5 B	0.88 J	1.6 J	ND	423	ND	ND	ND	ND	ND	ND	ND
MW10	W-151015-PS-M-18	10/15/2015	178 B	6.5	244	ND	71.8	1.8	8.2	ND	1.0 J	188	861	ND	150	ND	ND	ND	ND	ND
MW12	W-151013-PS-M-03	10/13/2015	279 B	11.7	74.4	1.6	159	1.2	0.080 JB	ND	ND	362 B	27.4	ND	25	ND	ND	ND	ND	ND
MW15	W-151012-PS-M-01	10/12/2015	224 B	12.0	302	6.7 F1	5.8	0.55	ND	0.54 J	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW17	W-151013-PS-M-08	10/13/2015	184 J	14.8	265	4.2 H	45.3	0.59	ND	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW28	W-151014-PS-M-15	10/14/2015	126 B	15.5	155	2.0	5.4	0.69 J	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND
Unconfined Aquifer (Upper)																				
MW2	W-151014-PS-M-12	10/14/2015	50.7 B	0.55 J	60.3	0.63	2.1	1.3	ND	ND	0.75 J	56.7 J	2.9 J	ND	0.13	ND	ND	ND	ND	ND
MW5	W-151014-PS-M-13	10/14/2015	98.7 B	12.7	159	0.053 J	48.9	3.3	1.8 B	ND	ND	954	2230	ND	64	ND	ND	ND	ND	ND
MW65	W-151014-PS-M-14	10/14/2015	12.5 B	10.8	76.4	3.6	6.7	3.4	ND	ND	2.5	16.8	1.4 J	ND	0.17	ND	ND	ND	ND	ND
MW9	W-151013-PS-M-10	10/13/2015	31.0 B	0.70 J	40.2	1.5 H	7.4	4.4	ND	ND	1.3 J	21.1 J	ND	ND	0.17	ND	ND	ND	ND	ND
MW16	W-151013-PS-M-04	10/13/2015	48.4 B	4.3	84.4	0.61	5.9	0.70 J	ND	ND	1.0 J	45.2 JB	2.1 J	ND	ND	ND	ND	ND	ND	ND
MW22	W-151013-PS-M-11	10/13/2015	46.3 B	1.7	52.3	0.65 H	2.8	0.74 J	ND	ND	1.2 J	ND	ND	ND	0.041 J	ND	ND	ND	ND	ND
MW26	W-151013-PS-M-06	10/13/2015	198 B	15.3	229	1.9 H	74.6	0.32 J	ND	0.76 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW26	W-151013-PS-M-07	10/13/2015	194 B	15.5	235	1.9 H	75.7	0.33 J	ND	0.50 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

¹ - Enforcement Standard (ES) criteria adapted from Table 1 referred to and incorporated by NR 140.10 with except of Iron, Manganese, Zinc, Chloride, and Sulfate (see note 14).

² - Preventive Action Limit (PAL) criteria adapted from Table 1 referred to and incorporated by NR 140.10 with except of Iron, Manganese, Zinc, Chloride, and Sulfate (see note 14).

³ - Enforcement Standard (ES) and Preventive Action Limit (PAL) criteria adapted from Table 2 referred to and incorporated by NR 140.12.

mg/L - Concentrations listed with units of milligrams per liter.

ug/L - Concentrations listed with units of micrograms per liter.

J - Concentration was estimated below the reporting limit.

< - Compound was not detected above the reporting limit.

B - Analand was detected in the method blank.

H - Analysis was performed after holding time.

 Concentration exceeds the ES.

 Concentration exceeds the PAL.

Well MW19 was not sampled due to the presence of LNAPL.