

From: Mark Fryman <mfryman@consulttruenorth.com>
Sent: Tuesday, October 3, 2023 1:47 PM
To: Koepke, Cynthia L - DNR
Subject: Frei Oil
Attachments: B.2.b.-ResidualSoilCont-Clarification.pdf

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Cindy,

I looked through the file information to try to figure out the surface cover at the old boring GP-9 where shallow soil exceeding the industrial direct contact RCLs was identified during the WDOT assessment in 2006. I did figure out a few things from the file.

There was not much change to the ground surface elevation in that area during the roadway reconstruction because of the adjacent RR tracks.

I could not find any information regarding whether the impacted soil at GP-9 may have been removed during the road reconstruction. There was a statement in the BT2 assessment report mentioning material management and building demolition for the road work but I did not find anything documenting soil removal. Therefore, I believe that we need to assume it is still there.

The boring with the bad soil, GP-9, was located right along the edge of the line of the proposed new WDOT right-of-way. Because of this, I am confident that the boring is located "beneath" the existing sidewalk since that sidewalk runs along the edge of the new ROW. I have attached a PDF that shows this. I created the PDF so that 4 layers are maintained. Those layers are; the figure border, the residual contamination details (from B.2.b.), the original map from the DOT work created by BT2, and a current county aerial photo. Because I maintained the layers in the PDF, you can turn each of those 4 elements on/off independently. I think the comparison of the BT2 map, and the current aerial photo clearly shows that GP-9 is covered by the sidewalk.

Sorry, that this is the best I can do with the information. I guess there will have to be a statement that the sidewalk needs to be maintained as a cover in the closure letter.

If you have any other questions, give me a call (608-220-4847).

Thank you,



Mark Fryman

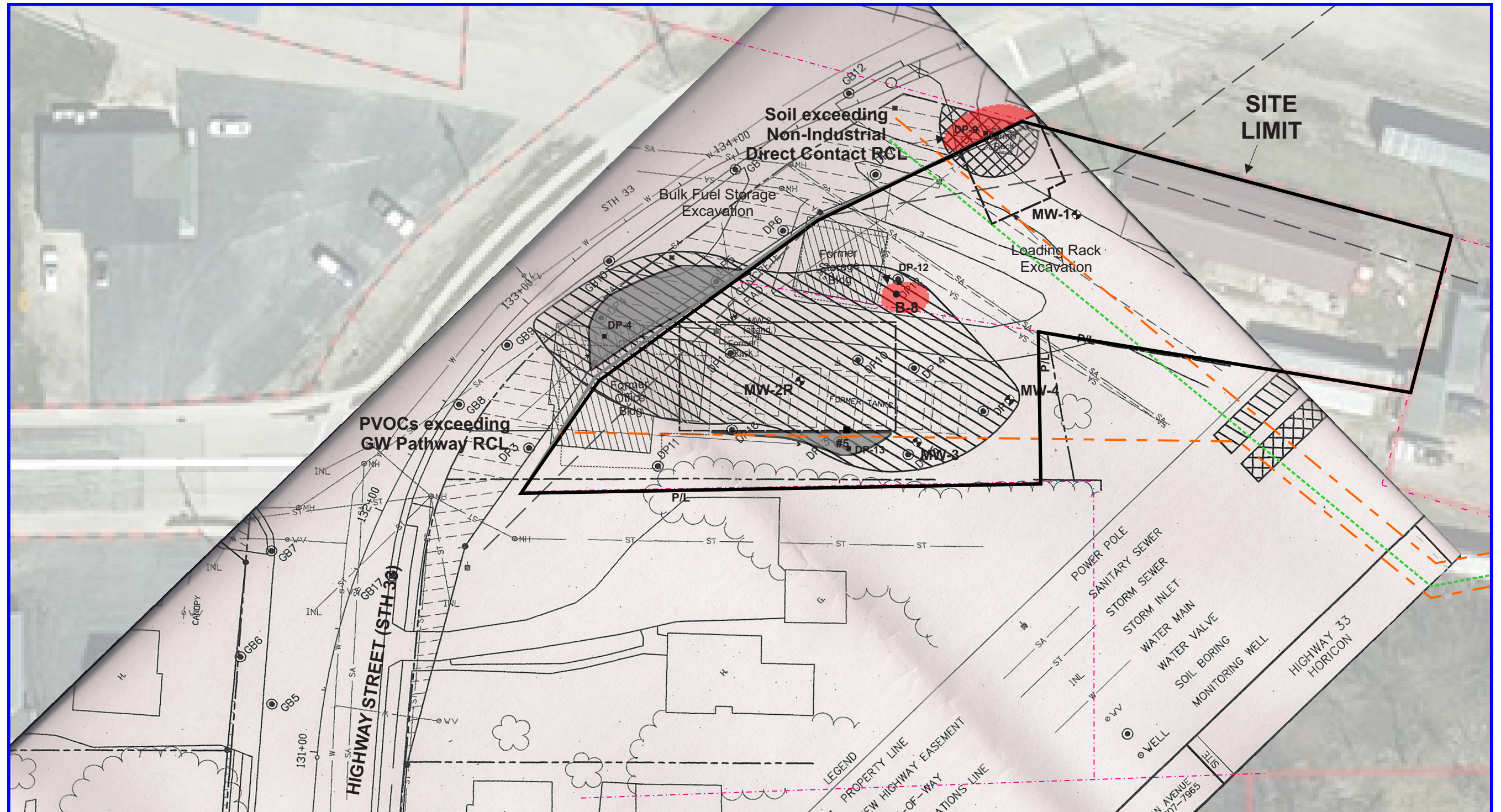
Staff Consultant

525 Junction Road | Suite 5800 | Madison, WI 53717
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ConsultTrueNorth.com

Linked 

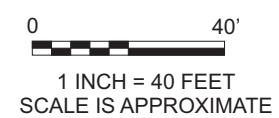
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LEGEND

- GB-8 ◆ - DOT Corridor Assessment Boring (2005)
- DP-7 ■ - Phase II Boring (2006)
- B-10 ● - Supplemental Assessment Boring (2014)
- MW-4 ● - Monitoring Well Location
- #4 ■ - Remedial Excavation Sample

- Overhead Electric
- Stormwater Sewer
- Sanitary Sewer



ATTACHMENT B.2.b.

**RESIDUAL
SOIL CONTAMINATION**

525 JUNCTION ROAD
SUITE 5800
MADISON, WI

CLIENT
MARK FRANZ, JR.
421 BARSTOW STREET
HORICON, WI 53032

SITE LOCATION
FREI OIL COMPANY (Former)
207 HIGHWAY STREET
HORICON, WI 53032

| | |
|----------------|---|
| PROJECT NUMBER | T222-045 |
| DATE | 05/10/2023 |
| SOURCE | Dodge County Public Mapping Field Measurements |

From: Mark Fryman <mfryman@consulttruenorth.com>
Sent: Wednesday, September 27, 2023 10:02 AM
To: Koepke, Cynthia L - DNR
Subject: Frei Oil
Attachments: A.3.-ResidualSoil-ROW.pdf

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Cindy,

I checked on the direct contact exceedances in the street ROW as we discussed.

Unfortunately, there are soils exceeding the industrial direct contact hazard RCL near the northwest corner of the site by the RR tracks and former loading rack. Two compounds, benzo(a) pyrene and arsenic, were present above the industrial standard. I have attached a table of the data from the 2 borings where contamination was identified in the ROW.

Thank you,



Mark Fryman

Staff Consultant

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RESIDUAL SOIL CONTAMINATION TABLE (IN PUBLIC RIGHT OF WAY)

Frei Oil Company (former) - 207 Highway Street - Horicon, WI

| Date | WDOT Property Aquisition Investigation - January 2007 | | WDNR Standards | | |
|-------------------------|---|-------------|----------------|------------------|--------------|
| SAMPLE | DP4 | DP9 | GW RCL | DC (non-Ind) RCL | DC (Ind) RCL |
| Depth (ft) | 6-8 | 2-4 | | | |
| DRO (mg/kg) | 600 | 160 | ne | ne | ne |
| GRO (mg/kg) | na | na | ne | ne | ne |
| VOCs (ug/kg) | | | | | |
| Benzene | 1300 | <25 | 5.1 | 1600 | 7,070 |
| 1,2 Dichloroethane | nd | nd | ne | 652 | 2,870 |
| Ethylbenzene | 1500 | <25 | 1570 | 8020 | 35,400 |
| Methyl-tert-butyl ether | <100 | <25 | 27 | 63,800 | 282,000 |
| Toluene | <100 | 94 | 1107 | 818,000 | 818,000 |
| 1,3,5 Trimethylbenzenes | 3500 | <25 | ne | 182,000 | 182,000 |
| 1,2,4 Trimethylbenzenes | 11000 | 51 | ne | 219,000 | 219,000 |
| Total Trimethylbenzenes | 14500 | 51 | 1379 | ne | ns |
| Total Xylenes | 6000 | 186 | 3940 | 260,000 | 260,000 |
| Naphthalene | 5400 | 80 | 658.7 | 5520 | 24,100 |
| n-Butylbenzene | 2200 | <25 | ne | 108,000 | 108,000 |
| s-Butylbenzene | 5200 | <25 | ne | 145,000 | 145,000 |
| Isopropylbenzene | 410 | <25 | ne | 268,000 | 268,000 |
| p-Isopropyltoluene | 1400 | <25 | ne | 162,000 | 162,000 |
| n-Propylbenzene | 1000 | <25 | ne | 264,000 | 264,000 |
| PAHS (ug/kg) | | | | | |
| Acenaphthene | 140 | <13 | ne | 3,590,000 | 45,200,000 |
| Acenaphthylene | 45 | <12 | ne | ne | ne |
| Anthracene | 82 | 22 | 196,744 | 17,900,000 | 100,000,000 |
| Benzo(a)anthracene | <55 | <u>1300</u> | ne | 1,140 | 20,800 |
| Benzo(a)pyrene | <30 | 940 | 470 | 115 | 2,110 |
| Benzo(b)fluoranthene | <29 | 2000 | 480 | 1,150 | 21,100 |
| Benzo(g,h,i)perylene | <37 | 790 | ne | ne | ne |
| Benzo(k)fluoranthene | <32 | 1000 | ne | 11,500 | 211,000 |
| Dibenzo(a,h)anthracene | <28 | <u>280</u> | ne | 115 | 2,110 |
| Chrysene | <45 | 1700 | 145.1 | 115,000 | 2,110,000 |
| Fluoranthene | <30 | 1100 | 88,818 | 2,390,000 | 30,100,000 |
| Fluorene | 230 | <15 | 14,815 | 2,390,000 | 30,100,000 |
| Indeno(1,2,3-cd)pyrene | <26 | <u>720</u> | ne | 1,150 | 21,100 |
| 1-Methylnaphthalene | 1900 | 15 | ne | 17,600 | 72,700 |
| 2-Methylnaphthalene | 3200 | 18 | ne | 239,000 | 3,010,000 |
| Naphthalene | 600 | <17 | 658.7 | 5,520 | 24,100 |
| Phenanthrene | 710 | 100 | ne | ne | ne |
| Pyrene | <25 | 1200 | 54,772 | 1,790,000 | 22,600,000 |
| METALS (mg/kg) | | | | | |
| Arsenic | na | 120 | 0.584 | 0.614 | 2.39 |

- GW RCL = Groudwater Pathway Residual Contaminant Level - (exceedances **Bold**)

- DC RCL = Direct Contact Residual Contaminant Level - non-Industrial - (Exceedances Underlined)

- Boxed values exceed Industrial Direct Contact RCL

- BTV = Background Threshold Value

