

**From:** Andy Delforge <adelforge@reiengineering.com>  
**Sent:** Thursday, August 18, 2022 3:20 PM  
**To:** Schultz, Josie M - DNR  
**Cc:** Ken Juza  
**Subject:** RE: V&L Stripping WDNR NR700 Semi-Annual Report Confirmation  
**Attachments:** 4-14-22 weather.pdf; V&L Vapor.pdf

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Ah, you are right, the sub-slab and sump data got cut off on the pdf. See attached.

We did do the sewer sampling also, I haven't tabulated it yet, but it was all below screening level. The weather underground data from 4/14 is attached, it was a low of 29 and a high of 57, so in my mind that qualifies as heating season.

Also did another round of groundwater samples.

I went back and ran a TCLP on that hot soil sample, and it didn't pass (barely), so we'll have to get creative with that. Any ideas you might have are appreciated.

Thank you,

Andrew R. Delforge, P.G. - Senior Hydrogeologist

Connect with us :

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-----Original Message-----

From: Schultz, Josie M - DNR <[josie.schultz@wisconsin.gov](mailto:josie.schultz@wisconsin.gov)>  
Sent: Thursday, August 18, 2022 3:00 PM  
To: Andy Delforge <[adelforge@reiengineering.com](mailto:adelforge@reiengineering.com)>  
Cc: Ken Juza <[kenjuz37@gmail.com](mailto:kenjuz37@gmail.com)>  
Subject: RE: V&L Stripping WDNR NR700 Semi-Annual Report Confirmation

Hi Andy,

Thanks for sending these results over. I think the sub-slab and sump pit results were missing in the pdf if you'd be able to send those over as well.

April gets a little iffy for being a "heating season" sample, but if you can provide justification for why this is considered a "worst case scenario" sample (e.g. dropping temperatures, heat running, windy day, etc) it may be considered adequate.

Are you planning to perform passive sampling for this second round? Has there been any discussion for the other items previously discussed including groundwater monitoring, and sanitary sewer headspace sampling, and additional soil RA?

Feel free to give me a call if you'd like to discuss.

Thanks,  
Josie

We are committed to service excellence.  
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Josie Schultz  
Cell Phone: (920) 366-5685  
[Josie.Schultz@Wisconsin.gov](mailto:Josie.Schultz@Wisconsin.gov)

-----Original Message-----

From: Andy Delforge <[adelforge@reiengineering.com](mailto:adelforge@reiengineering.com)>  
Sent: Thursday, August 18, 2022 8:12 AM  
To: Schultz, Josie M - DNR <[josie.schultz@wisconsin.gov](mailto:josie.schultz@wisconsin.gov)>  
Cc: Ken Juza <[kenjuz37@gmail.com](mailto:kenjuz37@gmail.com)>  
Subject: RE: V&L Stripping WDNR NR700 Semi-Annual Report Confirmation

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Hi Josie - funny you should ask. Yes, we did the first "heating season" round in April and are trying to schedule the second round next week. Results attached. AA864M being "Ambient Air 864 Mather", AA714L "Ambient Air 714 Lincoln", Sub Sab 864M, Sub Slab 714 Lincoln, Sump Pit 714 Lincoln. No sump pit at 864 Mather.

Thank you,

Andrew R. Delforge, P.G. - Senior Hydrogeologist

Connect with us :

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-----Original Message-----

From: Schultz, Josie M - DNR <[josie.schultz@wisconsin.gov](mailto:josie.schultz@wisconsin.gov)>  
Sent: Wednesday, August 17, 2022 5:08 PM  
To: Andy Delforge <[adelforge@reiengineering.com](mailto:adelforge@reiengineering.com)>  
Subject: RE: V&L Stripping WDNR NR700 Semi-Annual Report Confirmation

Hi Andy - Has a round of off-site vapor sampling been completed yet?

Thanks,  
Josie

We are committed to service excellence.  
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Josie Schultz  
Cell Phone: (920) 366-5685  
[Josie.Schultz@Wisconsin.gov](mailto:Josie.Schultz@Wisconsin.gov)

-----Original Message-----

From: [DNRRRNR700Reporting@wisconsin.gov](mailto:DNRRRNR700Reporting@wisconsin.gov) <[DNRRRNR700Reporting@wisconsin.gov](mailto:DNRRRNR700Reporting@wisconsin.gov)>  
Sent: Tuesday, July 5, 2022 9:07 AM  
To: [adelforge@reiengineering.com](mailto:adelforge@reiengineering.com)  
Cc: Schultz, Josie M - DNR <[josie.schultz@wisconsin.gov](mailto:josie.schultz@wisconsin.gov)>  
Subject: WDNR NR700 Semi-Annual Report Confirmation

Thank you for submitting your NR700 semi-annual progress report. The DNR Project Manager for this site has been notified of your report submittal. If final case closure has not been granted for this Activity before the next reporting period, you will receive a system-generated email reminder and link to report for the next period.

The contents of your report is included below for your records:

Report ID: 2207216722431465  
BRRTS No.: 02-05-216722  
PECFA No: --  
Activity Name: V & L STRIPPING  
Address: 864 MATHER ST, GREEN BAY  
Reporting Period: 1/1/2022 - 6/30/2022

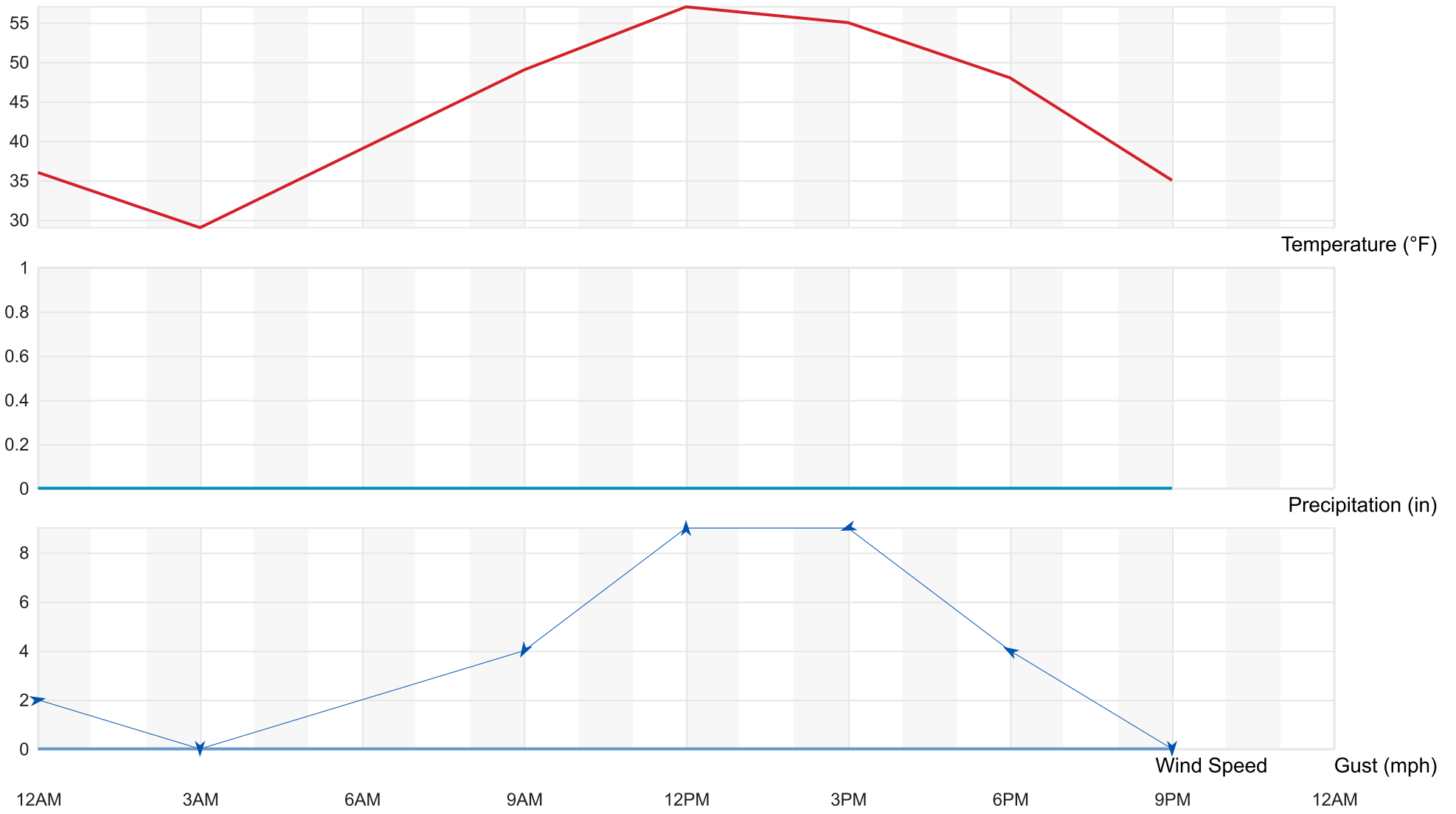
Submitted On: 07/05/2022

Submitter Role: Consultant

Status: Remediation: Sampling/Monitoring

Comments:

1/6/22 update report



## Summary

No data recorded

## Daily Observations

| Time     | Temperature | Dew Point | Humidity | Wind | Wind Speed | Wind Gust | Pressure | Precip. | Condition |
|----------|-------------|-----------|----------|------|------------|-----------|----------|---------|-----------|
| 12:00 AM | 36 °F       | 16 °F     | 44 %     | W    | 2 mph      | 0 mph     | 19.04 in | 0.0 in  | N/A       |
| 3:00 AM  | 29 °F       | 17 °F     | 59 %     | CALM | 0 mph      | 0 mph     | 19.02 in | 0.0 in  | N/A       |
| 9:00 AM  | 49 °F       | 25 °F     | 39 %     | NNE  | 4 mph      | 0 mph     | 19.04 in | 0.0 in  | N/A       |
| 12:00 PM | 57 °F       | 18 °F     | 21 %     | S    | 9 mph      | 0 mph     | 18.92 in | 0.0 in  | N/A       |
| 3:00 PM  | 55 °F       | 20 °F     | 26 %     | ENE  | 9 mph      | 0 mph     | 18.89 in | 0.0 in  | N/A       |
| 6:00 PM  | 48 °F       | 26 °F     | 43 %     | ESE  | 4 mph      | 0 mph     | 18.93 in | 0.0 in  | N/A       |
| 9:00 PM  | 35 °F       | 33 °F     | 92 %     | CALM | 0 mph      | 0 mph     | 19.02 in | 0.0 in  | N/A       |

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**TABLE 4a  
AMBIENT AIR SAMPLING RESULTS  
FORMER V&L STRIPPING  
864 MATHER STREET  
GREEN BAY, WI 54303**

|  |               | Sample -->      |                    |                             |  | West        | Center     | East       | Entrance    | AA864M       | AA714L       |
|--|---------------|-----------------|--------------------|-----------------------------|--|-------------|------------|------------|-------------|--------------|--------------|
|  |               | Collected By--> |                    |                             |  | AD          | AD         | AD         | AD          | AD           | AD           |
|  |               | Sample Date-->  |                    |                             |  | 9/3/20      | 9/3/20     | 9/3/20     | 9/3/20      | 4/14/22      | 4/14/22      |
| TO-15<br>Detected VOC's ( $\mu\text{g}/\text{m}^3$ ) | CAS<br>Number | carcinogen      | Indoor Air VAL     |                             |  |             |            |            |             |              |              |
|  |               |                 | Residential<br>[R] | Small<br>Commercial<br>[SC] | Large<br>Commercial/<br>Industrial<br>[LC/I] |             |            |            |             |              |              |
| Acetone  | 67-64-1       | n               | 32,200             | 135,000                     | 135,000                                      | <0.897      | 20.6       | 45         | 12          | 34           | 1118         |
| Acrolein   | 107-02-8      | n               | 0.0209             | 0.0876                      | 0.0876                                       | <b>3.03</b> | <0.188     | <0.188     | <0.188      | NA           | NA           |
| Benzene  | 71-43-2       | c               | 3.6                | 16                          | 16   | <b>56</b>   | <b>54</b>  | <b>54</b>  | <b>52</b>   | 1.66         | 7.9          |
| Benzyl chloride                                      | 100-44-7      | c               | 0.573              | 2.5                         | 2.5  | <0.627      | <0.418     | <0.418     | <0.418      | <0.209       | <0.209       |
| Bromodichloromethane                                 | 75-27-4       | c               | 0.759              | 3.31                        | 3.31   | <1.122      | <0.748     | <0.748     | <0.748      | <0.374       | <0.374       |
| Bromoform  | 75-25-2       | c               | 25.5               | 111                         | 111  | <1.242      | <0.828     | <0.828     | <0.828      | <0.414       | <0.414       |
| Bromomethane   | 74-83-9       | n               | 5.21               | 21.9                        | 21.9   | <0.6        | <0.4       | <0.4       | <0.4        | <0.2         | <0.2         |
| 1,3-Butadiene  | 106-99-0      | c               | 0.936              | 4.09                        | 4.09   | <0.429      | <0.286     | <0.286     | <0.286      | 0.77         | <0.143       |
| Carbon disulfide                                     | 75-15-0       | c               | 730                | 3,070                       | 3,070  | 20.2        | 2.86       | 3.2        | 2.86        | 1.43         | 1.37         |
| Carbon tetrachloride                                 | 56-23-5       | c               | 4.68               | 20.4                        | 20.4   | <0.921      | <0.614     | 0.63j      | 0.63j       | 0.63j        | <0.307       |
| Chlorobenzene  | 108-90-7      | c               | 52.1               | 219                         | 219  | <0.753      | <0.502     | <0.502     | <0.502      | <0.251       | <0.251       |
| Chloroethane   | 75-00-3       | --              | --                 | --                          | --   | <0.477      | <0.318     | <0.318     | <0.318      | <0.159       | <0.159       |
| Chloroform   | 67-66-3       | c               | 1.22               | 5.33                        | 5.33   | <0.9        | <0.6       | <0.6       | <0.6        | 0.49j        | <0.3         |
| Chloromethane  | 74-87-3       | n               | 93.9               | 394                         | 394  | <2.493      | <1.662     | <1.661     | <1.662      | 1.67j        | 1.4j         |
| Chlorohexane   | 544-10-5      | --              | --                 | --                          | --   | 12.5        | 12.5       | 12.6       | 11.7        | <0.212       | 5.5          |
| Dibromochloromethane                                 | 124-48-1      | --              | --                 | --                          | --   | <1.128      | <0.752     | <0.752     | <0.752      | <0.376       | <0.376       |
| 1,4-Dichlorobenzene                                  | 106-46-7      | c               | 2.55               | 11.1                        | 11.1   | 1.8j        | 0.96j      | 1.2j       | 1.2j        | <0.302       | <0.302       |
| 1,3-Dichlorobenzene                                  | 541-73-1      | --              | --                 | --                          | --   | <0.906      | <0.604     | <0.604     | <0.604      | <0.302       | <0.302       |
| 1,2-Dichlorobenzene                                  | 95-50-1       | n               | 209                | 876                         | 876  | <0.705      | <0.47      | <0.47      | <0.47       | <0.235       | <0.235       |
| Dichlorodifluoromethane                              | 75-71-8       | n               | 104                | 438                         | 438  | 3.11        | 3.2        | 3.2        | 3.07        | 3.11         | 10.3         |
| 1,2-Dichloroethane                                   | 107-06-2      | c               | 1.08               | 4.72                        | 4.72   | <0.72       | <0.48      | <0.48      | <0.48       | 0.243j       | <0.24        |
| 1,1-Dichloroethane                                   | 75-34-3       | c               | 17.5               | 76.7                        | 76.7   | <0.561      | <0.374     | <0.374     | <0.374      | <0.187       | <0.187       |
| 1,1-Dichloroethene                                   | 75-35-4       | n               | 209                | 876                         | 876  | <0.63       | <0.42      | <0.42      | <0.42       | <0.21        | <0.21        |
| cis-1,2-Dichloroethene                               | 156-59-2      | --              | --                 | --                          | --   | <0.591      | <0.394     | <0.394     | <0.394      | <0.197       | <0.197       |
| trans-1,2-Dichloroethene                             | 156-60-5      | c               | --                 | --                          | --   | <0.693      | <0.462     | <0.462     | <0.462      | <0.231       | <0.231       |
| 1,2-Dichloropropane                                  | 78-87-5       | n               | 4.17               | 17.5                        | 17.5   | <0.84       | <0.56      | <0.56      | <0.56       | <0.28        | <0.28        |
| trans-1,3-Dichloropropene                            | 10061-02-6    | --              | --                 | --                          | --   | <0.594      | <0.396     | <0.396     | <0.396      | <0.198       | <0.198       |
| cis-1,3-Dichloropropene                              | 10061-01-5    | --              | --                 | --                          | --   | <0.702      | <0.468     | <0.468     | <0.468      | <0.234       | <0.234       |
| Dichlorotetrafluoroethane (1,2-)                     | 76-14-2       | --              | --                 | --                          | --   | <1.338      | <0.892     | <0.892     | <0.892      | <0.446       | <0.446       |
| 1,4-Dioxane  | 123-91-1      | c               | 5.62               | 24.5                        | 24.5   | <0.471      | <0.314     | <0.314     | <0.314      | <0.157       | <0.157       |
| 1,2-Dibromoethane (EDB)                              | 106-93-4      | c               | 0.0468             | 0.204                       | 0.204  | <1.026      | <0.684     | <0.684     | <0.684      | <0.342       | <0.342       |
| Ethanol  | 64-17-5       | --              | --                 | --                          | --   | 130         | 109        | 104        | 87          | 870          | 670          |
| Ethyl acetate  | 141-78-6      | n               | 73                 | 307                         | 307  | <0.528      | <0.352     | <0.352     | <0.352      | 2.85         | 7.2          |
| Ethylbenzene   | 100-41-4      | c               | 11.2               | 49.1                        | 49.1   | 38          | 37         | 37         | 33          | 0.91         | 8.6          |
| 4-Ethyltoluene                                       | 622-96-8      | --              | --                 | --                          | --   | 15.3        | 15         | 15.5       | 11.6        | <0.214       | 4.8          |
| n-Heptane  | 142-82-5      | n               | 417                | 1,750                       | 1,750  | 46          | 44         | 44         | 42          | 0.75j        | 8.2          |
| Hexachloro-1,3-butadiene                             | 87-68-3       | c               | 1.28               | 5.87                        | 5.87   | <1.467      | <0.978     | <0.978     | <0.978      | <0.489       | <0.489       |
| n-Hexane   | 110-54-3      | n               | 730                | 1,750                       | 1,750  | 45          | 39         | 39         | 36          | 7.9          | 23.5         |
| 2-Hexanone   | 591-78-6      | n               | 31.3               | 131                         | 131  | <0.666      | <0.444     | <0.444     | <0.444      | 0.286j       | <0.222       |
| 2-Propanol (Isopropanol)                             | 67-63-0       | n               | 209                | 876                         | 876  | <0.327      | <0.218     | <0.218     | <0.218      | 5.9          | 21.8         |
| 2-Butanone (MEK)                                     | 78-93-3       | n               | 5,210              | 21,900                      | 21,900                                       | 4.8         | 5.4        | 4.10       | 3.07        | 3.15         | 4.80         |
| 4-Methyl-2-pentanone (MIBK)                          | 108-11-2      | n               | 3,130              | 13,100                      | 13,100                                       | <0.504      | 1.15       | <0.336     | <0.336      | 0.41j        | 0.86         |
| Methyl Methacrylate                                  | 80-62-6       | n               | 730                | 3,070                       | 3,070  | <0.651      | <0.434     | <0.434     | <0.434      | <0.217       | <0.217       |
| Methylene Chloride                                   | 75-09-2       | n               | 626                | 2,630                       | 2,630  | <45         | <30        | <30        | <30         | 15.9         | <15          |
| Methyl-tert-butyl ether (MTBE)                       | 1634-04-4     | c               | 108                | 472                         | 472  | <0.48       | <0.32      | <0.32      | <0.32       | <0.16        | <0.16        |
| Naphthalene  | 91-20-3       | n               | 0.826              | 3.61                        | 3.61   | <b>7.8</b>  | <b>6.2</b> | <b>5.9</b> | <b>3.7j</b> | <i>0.89j</i> | <i>1.62j</i> |
| Propylene  | 115-07-1      | n               | 3,130              | 13,100                      | 13,100                                       | <0.237      | <0.158     | <0.158     | <0.158      | <0.079       | <0.079       |
| Styrene  | 100-42-5      | n               | 1,040              | 4,380                       | 4,380  | 0.64j       | 0.6j       | 0.43j      | <0.362      | 0.68         | 22.9         |
| 1,1,2,2-Tetrachloroethane                            | 79-34-5       | c               | 0.484              | 2.11                        | 2.11   | <0.975      | <0.65      | <0.65      | <0.65       | <0.325       | <0.325       |
| Tetrachloroethene (PCE)                              | 127-18-4      | n               | 41.7               | 175                         | 175  | 5.7         | 8.7        | 14.4       | <0.556      | <0.278       | 1.43         |
| Tetrahydrofuran                                      | 109-99-9      | n               | 2,090              | 8,760                       | 8,760  | <0.393      | <0.262     | <0.262     | <0.262      | 0.68         | 15.1         |
| Toluene  | 108-88-3      | n               | 5,210              | 21,900                      | 21,900                                       | 245         | 236        | 239        | 221         | 3.05         | 40           |
| 1,2,4-Trichlorobenzene                               | 120-82-1      | n               | 2.09               | 8.76                        | 8.76   | <1.971      | <1.314     | <1.314     | <1.314      | <0.657       | <0.657       |
| 1,1,1-Trichloroethane                                | 71-55-6       | n               | 5,210              | 21,900                      | 21,900                                       | <0.747      | <0.498     | <0.498     | <0.498      | <0.249       | <0.249       |
| 1,1,2-Trichloroethane                                | 79-00-5       | n               | 0.209              | 0.876                       | 0.876  | <0.774      | <0.516     | <0.516     | <0.516      | <0.258       | <0.258       |
| Trichloroethene (TCE)                                | 79-01-6       | --              | 2.09               | 8.76                        | 8.76   | <0.711      | 1.71       | <0.474     | <0.474      | <0.237       | 0.48j        |
| Trichlorofluoromethane                               | 75-69-4       | n               | --                 | --                          | --   | 2.36j       | 2.13j      | 2.02j      | 1.8j        | 1.69         | 1.4          |
| Trichlorotrifluoroethane (1,1,2-)                    | 76-13-1       | n               | 5,210              | 21,900                      | 21,900                                       | <1.206      | <0.804     | <0.804     | <0.804      | 0.61j        | 0.54j        |
| 1,2,4-Trimethylbenzene (TMB)                         | 95-63-6       | n               | 62.6               | 263                         | 263  | 54          | 52         | 55         | 37          | 0.69j        | 18.4         |
| 1,3,5-Trimethylbenzene (TMB)                         | 108-67-8      | c               | 62.6               | 263                         | 263  | 12.2        | 11.6       | 12.5       | 8.3         | <0.232       | 4.4          |
| Vinyl acetate  | 108-05-4      | n               | 209                | 876                         | 876  | <0.609      | <0.406     | <0.406     | <0.406      | <0.203       | <0.203       |
| Vinyl chloride                                       | 75-01-4       | n               | 1.68               | 27.9                        | 27.9   | <0.444      | <0.296     | <0.296     | <0.296      | <0.148       | <0.148       |
| Xylene, m,p-   |               | n               |                    |                             |  | 137         | 132        | 134        | 117         | 2.17         | 28           |
| Xylene, o-   | 1330-20-7     | n               | 104                | 438                         | 438  | 51          | 50         | 51         | 43          | 0.78         | 10.9         |

**Notes:**

VAL = Vapor Action Level

< = Concentration Below Laboratory Detection Limit

- = Not Sampled/Collected

-- = No Standard/Not Applicable

j = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)

c = carcinogen

n = non-carcinogen

Target Risk for Carcinogens = 1.00E-05

Target Hazard Quotient for Non-Carcinogens = 1

**Immediate Action Criteria for Indoor Air**

Carcinogens (c) = 10 x VAL

Non-carcinogens (n) = 3 x VAL

|                   |  |
|-------------------|--|
| <i>Italics</i>    | = Exceeds US EPA Residential VAL                   |
| <b>Bold</b>       | = Exceeds US EPA Commercial VAL                    |
| <u>Underlined</u> | = Exceeds Immediate Action Criteria for Indoor Air |

**TABLE 4b**  
**SUB-SLAB AIR SAMPLING RESULTS**  
**FORMER V&L STRIPPING**  
**864 MATHER STREET**  
**GREEN BAY, WI 54303**

|   |                       |            | <i>Sample --&gt;</i>              |  |   | <i>VP1</i>            | <i>VP2</i>            | <i>VP3</i>      | <i>SS864M</i>  | <i>SS714L</i>  | <i>SP714L</i>  |
|---|-----------------------|------------|-----------------------------------|--|---|-----------------------|-----------------------|-----------------|----------------|----------------|----------------|
|   |                       |            | <i>Collected By--&gt;</i>         |  |   | <i>AD</i>             | <i>AD</i>             | <i>AD</i>       | <i>AD</i>      | <i>AD</i>      | <i>AD</i>      |
|   |                       |            | <i>Sample Date--&gt;</i>          |  |   | <i>10/26/21</i>       | <i>10/26/21</i>       | <i>10/26/21</i> | <i>4/14/22</i> | <i>4/14/22</i> | <i>4/14/22</i> |
| <b>WDNR Common<br/>VOC's (µg/m<sup>3</sup>)</b> | <b>CAS<br/>Number</b> | carcinogen | <i>Sub-Slab VRSL</i>              |  |   |                       |                       |                 |                |                |                |
|   |                       |            | Residential<br>[R]<br>(AF = 0.03) | Small<br>Commercial<br>[SC]<br>(AF = 0.03) | Large<br>Commercial/<br>Industrial<br>[LC/I]<br>(AF = 0.01) |                       |                       |                 |                |                |                |
| cis-1,2-Dichloroethene                          | 156-59-2              | --         | --                                | --   | --  | 354                   | 8,380                 | 0.74j           | <0.197         | <0.197         | <0.197         |
| trans-1,2-Dichloroethene                        | 156-60-5              | --         | --                                | --   | --  | 33.5j                 | 246                   | 069j            | <0.231         | <0.231         | <0.231         |
| Tetrachloroethene (PCE)                         | 127-18-4              | n          | 1,390                             | 5,840                                      | 17,500  | <b><i>254,000</i></b> | <b><i>409,000</i></b> | 56.4            | 64             | 13.7           | 2.17           |
| Trichloroethene (TCE)                           | 79-01-6               | n          | 69.5                              | 292  | 876   | <b><i>3,520</i></b>   | <b><i>14,700</i></b>  | 3.7             | 1.61           | 1.12           | 0.268j         |
| Vinyl chloride                                  | 75-01-4               | c          | 55.9                              | 929  | 2,790   | 29.9j                 | 44.0j                 | <0.15           | 0.256j         | 0.23j          | <0.148         |

**Notes:**

Indoor Air Standards based on US EPA Vapor Intrusion Screening Levels (VISL) online calculator.

VISL Calculated on Date: 6/14/2019

AF = Attenuation Factor

VAL = Vapor Action Level

VRSL = Vapor Risk Screening Level

< = Concentration Below Laboratory Detection Limit

- = Not Sampled/Collected

-- = No Standard/Not Applicable

<sup>j</sup> = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)

c = carcinogen

n = non-carcinogen

Target Risk for Carcinogens = 1.00E-05

Target Hazard Quotient for Non-Carcinogens = 1

|                   |   |
|-------------------|---|
| <i>Italics</i>    | = Exceeds US EPA Residential VRSL                 |
| <b>Bold</b>       | = Exceeds US EPA Small Commercial VRSL            |
| <u>Underlined</u> | = Exceeds US EPA Large Commercial/Industrial VRSL |