

SCS ENGINEERS

April 15, 2014
File No. 25213180.06

Mr. Woody Myers
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

RECEIVED
21 APR 14

Subject: Summary of Vapor Intrusion Assessment
Former Nemitz Laundry
614 Michigan Avenue, Wisconsin Dells, Wisconsin
BRRTS #02-11-537751
WDNR Purchase Order #NMD00000631

Dear Mr. Myers:

SCS Engineers (SCS) is providing the following summary for a vapor intrusion assessment performed for the Former Nemitz Laundry project. SCS was contracted for the assessment under the Vapor Intrusion Zone Contract (VIZC), Wisconsin Department of Natural Resources (WDNR) Purchase Order #NMD00000631.

METHODS

The assessment was performed consistent with SCS's November 27, 2013 quote and the provisions of the VIZC. Our original scope of work assumed sampling at seven locations; however, owners for 925 Church Street, 927 Capital Street, and 931 Capital Street did not approve access for the sampling. We acquired access permission and sampled homes at 916, 920, 921, and 1001 Church Street.

All sub-slab samples were collected over a 30-minute time period, and all ambient air samples were collected over a 24-hour time period. Shut-in and water dam leak tests were performed prior to sub-slab sample collection. Samples were collected March 17-18, 2014. Sampling for each property is summarized below, and sample locations are shown on Figure 1.

- | | |
|-------------------|--|
| 916 Church Street | <ul style="list-style-type: none">• Installed and sampled one sub-slab probe• Collected one indoor air sample |
| 920 Church Street | <ul style="list-style-type: none">• Installed and sampled one sub-slab probe• Collected one indoor air sample• Collected one outdoor air (background) sample |



- 921 Church Street
 - Installed and sampled one sub-slab probe
 - Collected one indoor air sample

- 1001 Church Street
 - Installed and sampled one sub-slab probe
 - Collected one indoor air sample

Photos from each sample location are included in Attachment A. Field and laboratory chain of custody forms, and sketches of indoor sample locations are included in Attachment B.

Samples were transported to the Wisconsin State Laboratory of Hygiene for volatile organic compound (VOC) analysis via method TO-15. Samples were analyzed for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride. Laboratory reports are included Attachment C.

FINDINGS

Analytical results and applicable regulatory standards are provided in Tables 1 and 2 and summarized below:

- PCE was the only VOC detected in any of the sub-slab samples.
- Sub-slab sample PCE concentrations do not exceed the WDNR's Residential Vapor Risk Screening Level.
- VOCs were not detected in any of the ambient indoor air samples or the background sample.

Please feel free to contact me at 608-216-7329 if you have any questions regarding this letter.

Sincerely,



Robert Langdon
Senior Project Manager
SCS ENGINEERS

REL/lmh/TK

- Attachments:
- Table 1 – Sub-Slab Vapor Analytical Results Summary – Off-Site Properties
 - Table 2 – Ambient Air Analytical Results Summary – Off-Site Properties
 - Figure 1 – Vapor Assessment Sample Location Map
 - Attachment A – Photos
 - Attachment B – Field and Laboratory Chain of Custody Forms
 - Attachment C – Laboratory Report

TABLES

- 1 Sub-Slab Vapor Analytical Results Summary-Off-Site Properties
- 2 Ambient Air Analytical Results Summary-Off-Site Properties

Table 1. Sub-Slab Vapor Analytical Results Summary - Off-Site Properties
Nemitz Laundry Site, Wisconsin Dells, Wisconsin / SCS Engineers Project #25213180.06
 (Results are in ppbv)

| Sample | Date | Lab Notes | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | Vinyl Chloride |
|--|-----------|-----------|-------|--------|-------------|---------------|----------------|
| 916 Church Street | 3/18/2014 | -- | 3.1 F | <2.1 | <2.1 | <2.1 | <2.1 |
| 920 Church Street | 3/18/2014 | -- | 3.8 | <0.85 | <0.85 | <0.85 | <0.85 |
| 921 Church Street | 3/18/2014 | -- | 6.6 | <0.43 | <0.43 | <0.43 | <0.43 |
| 1001 Church Street | 3/18/2014 | -- | 2.6 | <0.085 | <0.085 | <0.085 | <0.085 |
| Vapor Risk Screening Level (Residential) | | | 62 | 3.9 | NE | 160 | 6.2 |

Abbreviations:

ppbv = parts per billion by volume
 cis-1,2-DCE = cis-1,2-dichloroethene

PCE = tetrachloroethene
 trans-1,2-DCE = trans-1,2-dichloroethene

TCE = trichloroethene
 NE = not established

Notes:

1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Risk Screening Levels are Target Indoor Air Concentrations from the USEPA November 2013 Regional Screening Level Summary Table divided by Attenuation Factor of 0.1 for residential settings.
3. Target Indoor Air Concentrations assume a target risk for carcinogens of 1.00E-05.

Laboratory Notes/Qualifiers:

F next to result = Result is between level of detection and level of quantification.

Created by: LMH Date: 4/9/2014
 Last revision by: LMH Date: 4/9/2014
 Checked by: TLC Date: 4/9/2014

I:\25213180\25213180.06\Tables\Off-Site_Sub-Slab_Results.xls\Sub-Slab Results

Table 2. Ambient Air Analytical Results Summary - Off-Site Properties
Nemitz Laundry Site, Wisconsin Dells, Wisconsin / SCS Engineers Project #25213180.06
 (Results are in ppbv)

| Sample | Date | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | Vinyl Chloride |
|---|-----------|--------|--------|-------------|---------------|----------------|
| 916 Church Street | 3/17/2014 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| 920 Church Street | 3/17/2014 | <0.085 | <0.085 | <0.085 | <0.085 | <0.085 |
| 921 Church Street | 3/17/2014 | <0.085 | <0.085 | <0.085 | <0.085 | <0.085 |
| 1001 Church Street | 3/17/2014 | <0.085 | <0.085 | <0.085 | <0.085 | <0.085 |
| Background/Outdoor | 3/17/2014 | <0.085 | <0.085 | <0.085 | <0.085 | <0.085 |
| Indoor Air Vapor Action Level (Residential) | | 6.2 | 0.39 | NE | 16 | 0.62 |

Abbreviations:

ppbv = parts per billion by volume
 cis-1,2-DCE = cis-1,2-dichloroethene

PCE = tetrachloroethene
 trans-1,2-DCE = trans-1,2-dichloroethene

TCE = trichloroethene
 NE = not established

Notes:

1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method.
2. Indoor Air Vapor Action Levels are Target Indoor Air Concentrations from the USEPA November 2013 Regional Screening Level Summary Table with a target risk for carcinogens of 1.00E-05.

Created by: LMH Date: 4/9/2014
 Last revision by: LMH Date: 4/9/2014
 Checked by: TLC Date: 4/9/2014

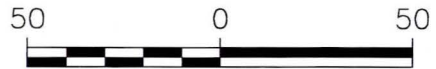
I:\25213180\25213180.06\Tables\Off-Site_Ambient_Air_Results.xls\Ambient Air Results

FIGURE 1

Vapor Assessment Sample Location Map



N



SCALE: 1" = 50'

| | | | |
|-------------|-------------|--------------|----------|
| PROJECT NO. | 25213180.06 | DRAWN BY: | AHB |
| DRAWN: | 04/14/14 | CHECKED BY: | REL |
| REVISED: | 04/14/14 | APPROVED BY: | 04/15/14 |

VAPOR ASSESSMENT SAMPLE
LOCATION MAP

FIGURE

1

ATTACHMENT A

Photos

Nemitz Laundry Site
Wisconsin Dells, Wisconsin
SCS Engineers Project #25213180.06
March 17-18, 2014



Photo 1: 916 Church Street – Location of indoor air sample.

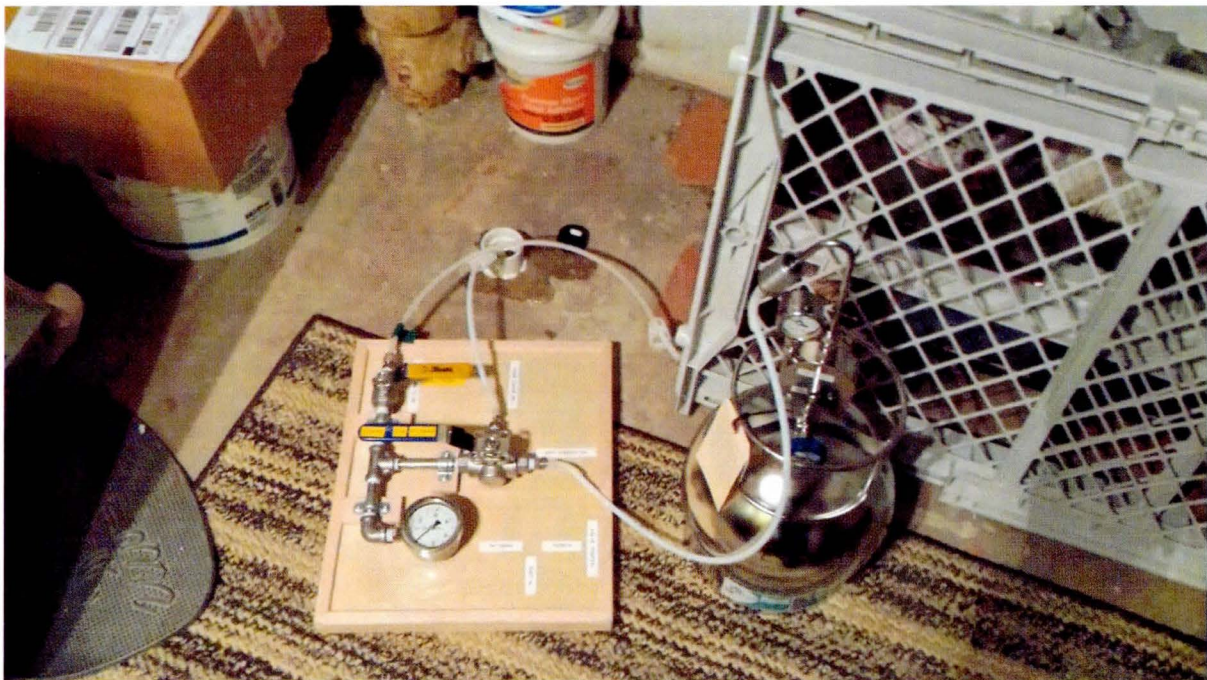


Photo 2: 916 Church Street – Sub-slab sample collection.

Nemitz Laundry Site
Wisconsin Dells, Wisconsin
SCS Engineers Project #25213180.06
March 17-18, 2014



Photo 3: 920 Church Street – Location of indoor air sample.



Photo 4: 920 Church Street – Sub-slab sample collection.

Nemitz Laundry Site
Wisconsin Dells, Wisconsin
SCS Engineers Project #25213180.06
March 17-18, 2014



Photo 5: 920 Church Street – Location of background outdoor air sample.

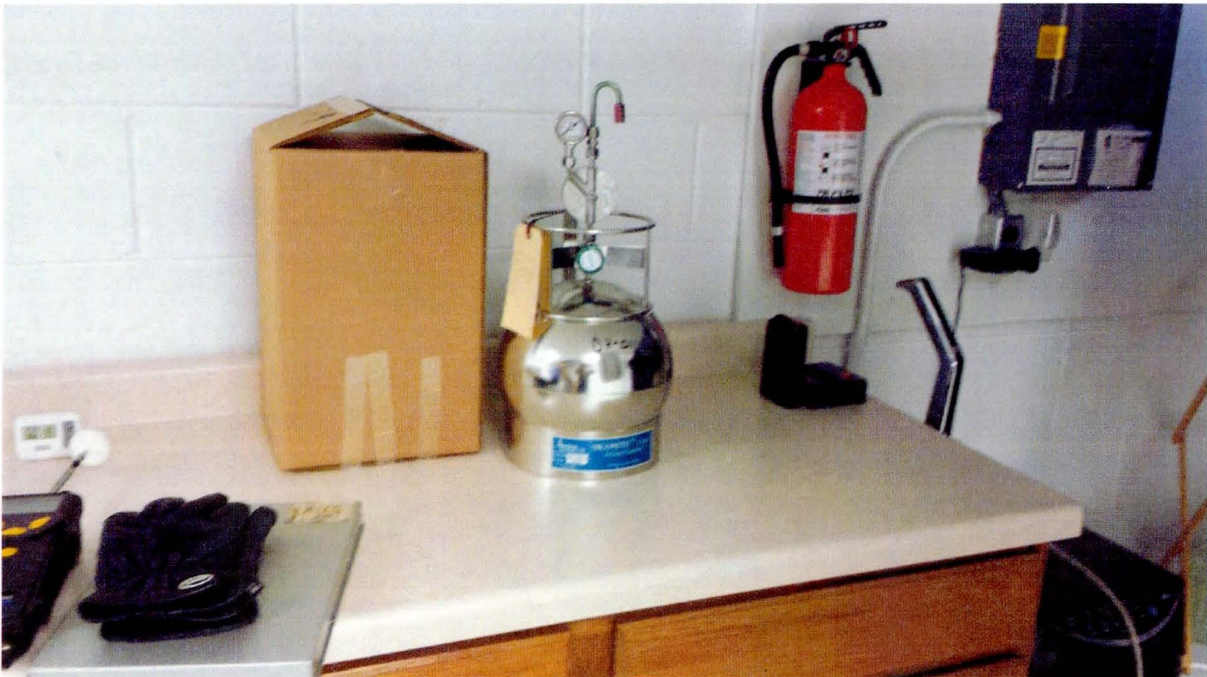


Photo 6: 921 Church Street – Location of indoor air sample.

Nemitz Laundry Site
Wisconsin Dells, Wisconsin
SCS Engineers Project #25213180.06
March 17-18, 2014

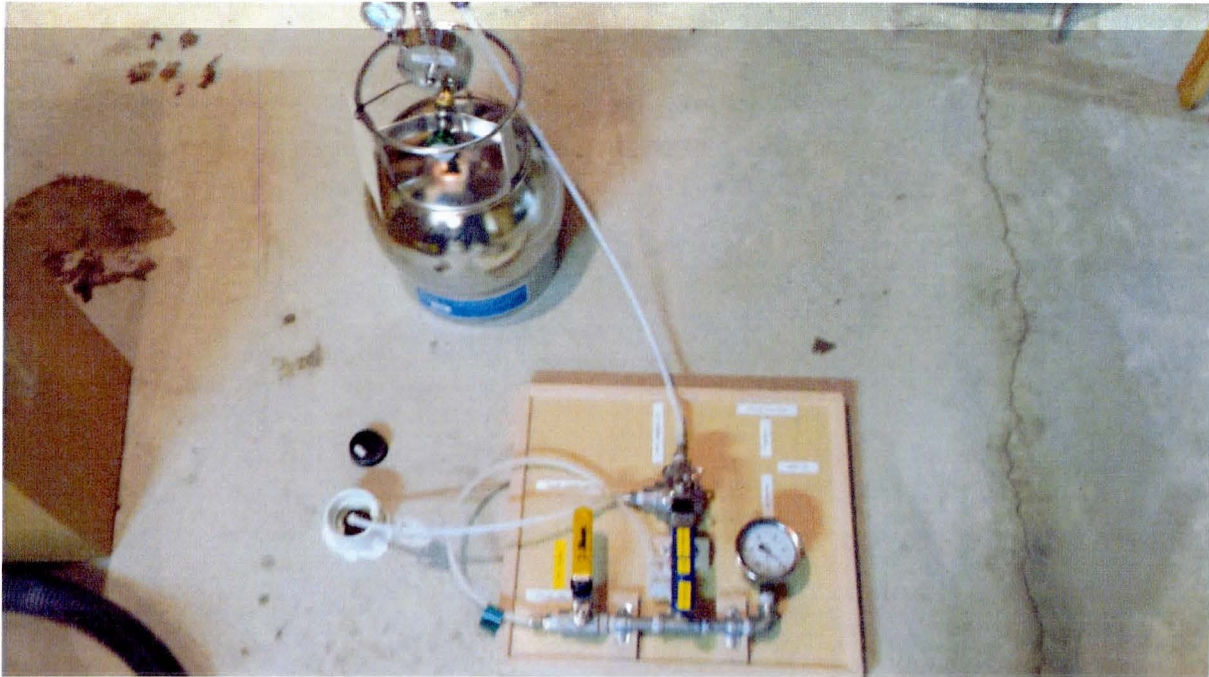


Photo 7: 921 Church Street – Sub-slab sample collection.

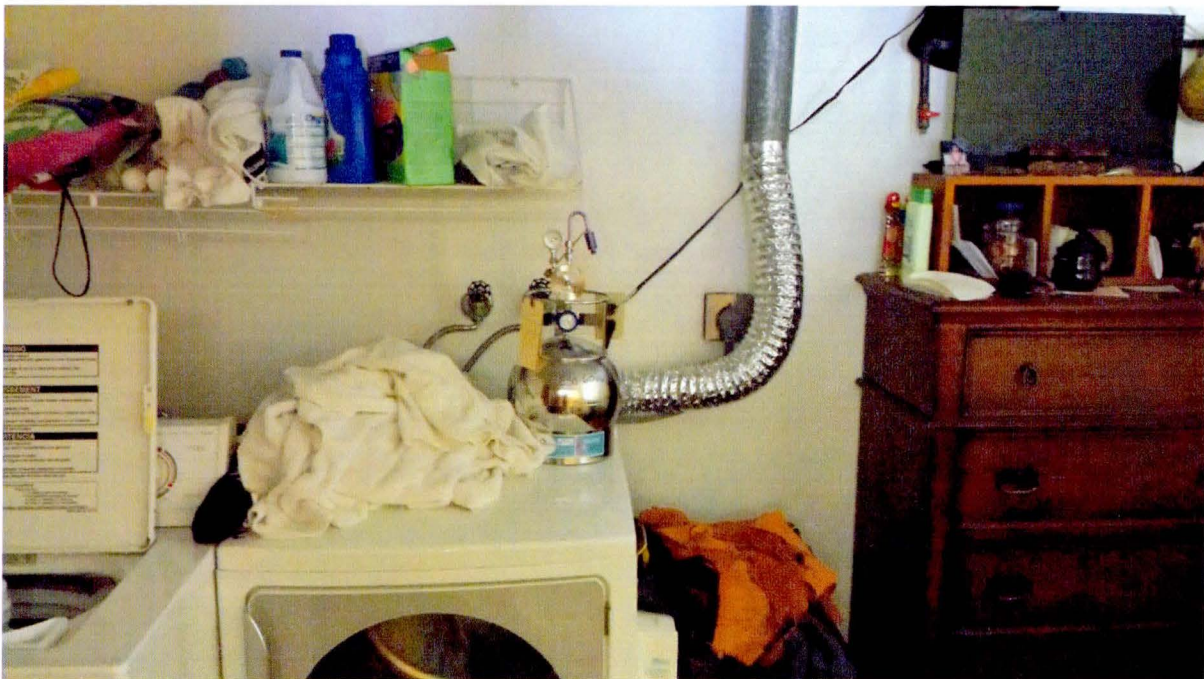


Photo 8: 1001 Church Street – Location of indoor air sample.

Nemitz Laundry Site
Wisconsin Dells, Wisconsin
SCS Engineers Project #25213180.06
March 17-18, 2014

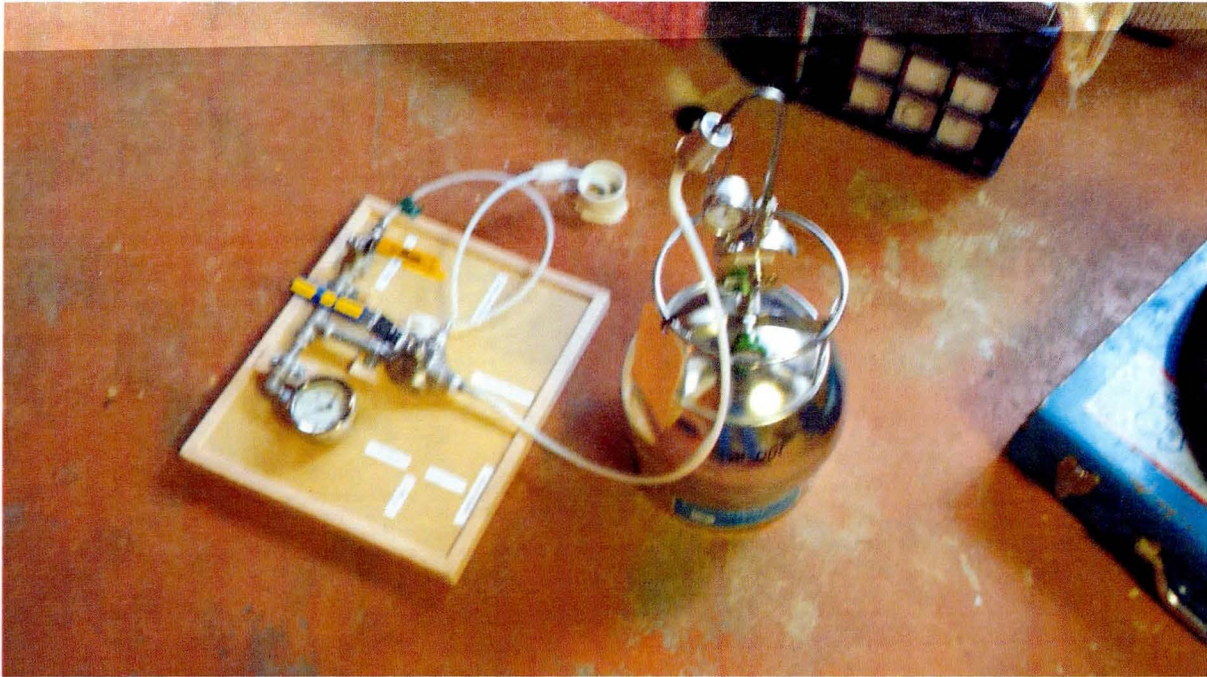


Photo 9: 1001 Church Street – Sub sample collection.

ATTACHMENT B

Field and Laboratory Chain of Custody Forms

Vapor Assessment Sample Collection Log

| | | |
|---------------------------------|------------------------------------|-------------------------------|
| PROJECT: VIZC- Nantz Laundry | SAMPLE ID: 416 Church St Indoor | TYPE (Circle One): SS (IA) OA |
| PROJECT #: 25213180.06 | SAMPLE INTAKE HEIGHT: 16" | NA for SS |
| LOCATION: Wisc. Dells, WI | APPROX PURGE VOLUME: NA | NA for IA and OA |
| SAMPLER: S.S. with | APPROX SAMPLING DEPTH: NA | NA for IA and OA |
| EQUIPMENT: See previous sample | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|---------|------|---------------------------|-----------|-----------------------|-----------------|-------------------------------|-----------------------|
| 3/17/14 | 1136 | -30 | 25.0 | 63 | 13.8 | 29.95 | 420 |
| 3/18/14 | 1136 | -2.5 | 37.9 | 70 | 17.3 | 29.85 | — |

Summa Canister Information:

| | | |
|---------------------|----------|------|
| Canister Size: | 1L | (6L) |
| Canister ID# | ESS-6053 | |
| Flow Controller ID# | 5346 | |

Sub-Slab Water Dam Test:

| | | |
|--------------------------------|-----|----|
| Test Passed: | Yes | No |
| (NA) - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

Abbreviations:

NA = Not Applicable
 SS = Sub-Slab
 IA = Indoor Air
 OA = Outdoor Air

Vapor Assessment Sample Collection Log

| | | |
|--|---|---------------------------------------|
| PROJECT: <u>VIZC - Menards Laundry</u> | SAMPLE ID: <u>416 Chm. St. Sub Slab</u> | TYPE (Circle One)*: <u>(SS)</u> IA OA |
| PROJECT #: <u>25213180-06</u> | SAMPLE INTAKE HEIGHT: <u>NA</u> | NA for SS |
| LOCATION: <u>Menards Drills, WI</u> | APPROX PURGE VOLUME: <u>3.5L</u> | NA for IA and OA |
| SAMPLER: <u>S. Smith</u> | APPROX SAMPLING DEPTH: <u>10"</u> | NA for IA and OA |
| EQUIPMENT: <u>See previous sample</u> | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ <u>ppb</u>) |
|----------------|-------------|---------------------------|-------------|-----------------------|-----------------|-------------------------------|--------------------------------|
| <u>3/18/14</u> | <u>1149</u> | <u>-24</u> | <u>41.0</u> | <u>65</u> | <u>16.1</u> | <u>29.83</u> | <u>44147</u> |
| <u>3/18/14</u> | <u>1219</u> | <u>-1</u> | <u>41.0</u> | <u>65</u> | <u>16.1</u> | <u>29.83</u> | <u>————</u> |

Summa Canister Information:

| | | |
|---------------------|-----------------|-------------|
| Canister Size: | <u>1L</u> | <u>(6L)</u> |
| Canister ID# | <u>ESS-6037</u> | |
| Flow Controller ID# | <u>2235</u> | |

Sub-Slab Water Dam Test:

| | | |
|-------------------------------------|--------------|----|
| Test Passed: | <u>(Yes)</u> | No |
| NA - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

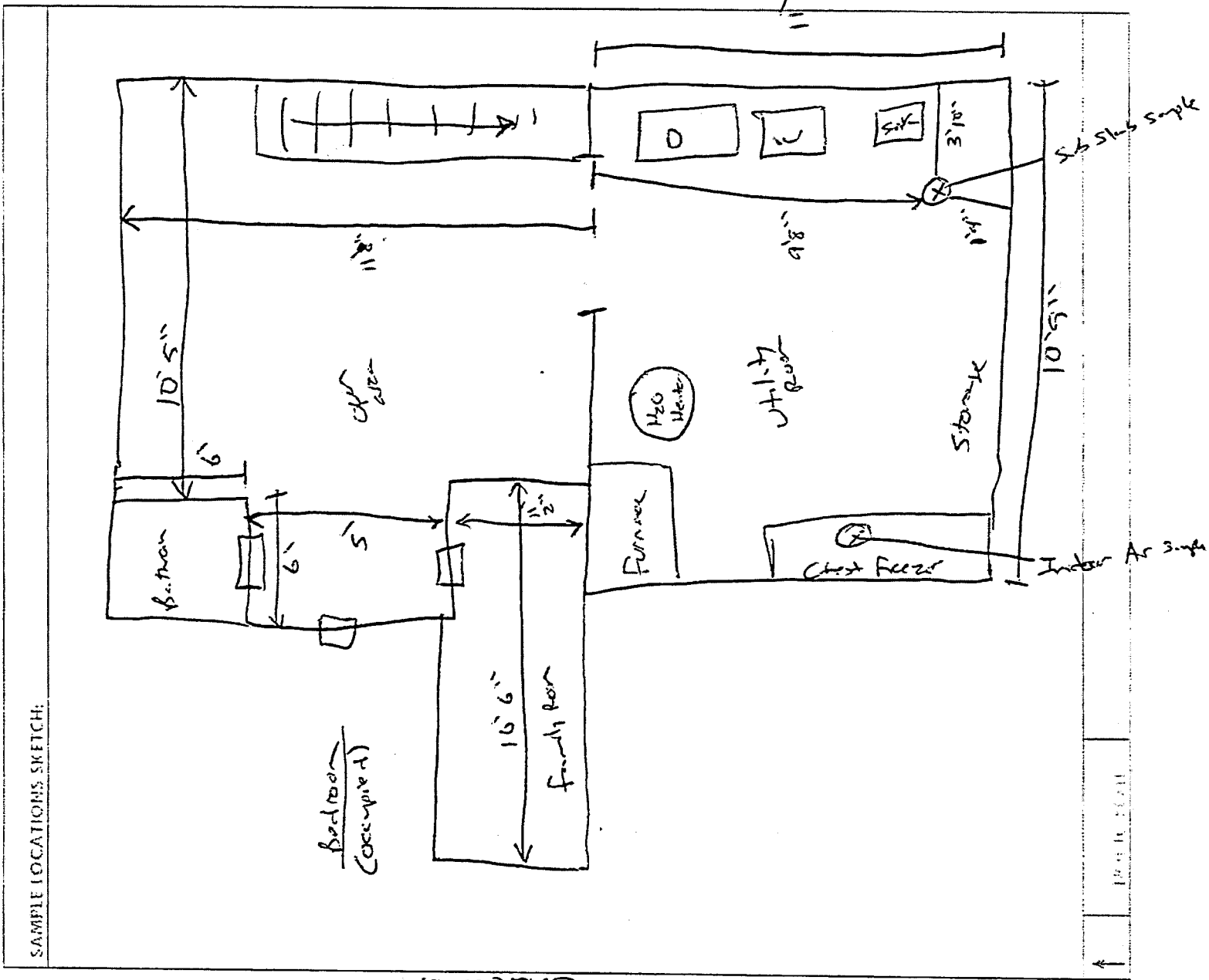
Background air = 1961 ppb

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

PROJECT NO: 25213160-06 ... 77011 FORT LINDSEY ... 916 Church St.

DATE: 3/10/14



SAMPLE LOCATIONS SKETCH:

Church St

North Arrow

Vapor Assessment Sample Collection Log

| | | |
|---------------------------------------|--|---------------------------------------|
| PROJECT: <u>VIZC - Nesite Laundry</u> | SAMPLE ID: <u>920 Church St Indoor</u> | TYPE (Circle One)*: SS <u>(IA)</u> OA |
| PROJECT #: <u>25213180-06</u> | SAMPLE INTAKE HEIGHT: <u>16"</u> | NA for SS |
| LOCATION: <u>Wisc. Drills, WI</u> | APPROX PURGE VOLUME: <u>NA</u> | NA for IA and OA |
| SAMPLER: <u>S 3-m</u> | APPROX SAMPLING DEPTH: <u>NA</u> | NA for IA and OA |
| EQUIPMENT: <u>See previous sample</u> | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|----------------|-------------|---------------------------|-------------|-----------------------|-----------------|-------------------------------|-----------------------|
| <u>3/17/14</u> | <u>1348</u> | <u>-28</u> | <u>33.1</u> | <u>37</u> | <u>17.3</u> | <u>29.84</u> | <u>146</u> |
| <u>3/18/14</u> | <u>1348</u> | <u>-1.5</u> | <u>46.0</u> | <u>54</u> | <u>12.7</u> | <u>29.82</u> | <u>—</u> |

Summa Canister Information:

| | | |
|---------------------|----------------|-------------|
| Canister Size: | 1L | <u>(6L)</u> |
| Canister ID# | <u>DH-0091</u> | |
| Flow Controller ID# | <u>2434</u> | |

Sub-Slab Water Dam Test:

| | | |
|---------------------------------------|-----|----|
| Test Passed: | Yes | No |
| <u>(NA)</u> - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

Vapor Assessment Sample Collection Log

| | |
|---------------------------------------|--|
| PROJECT: <u>VIZC - Nemitz Laundry</u> | SAMPLE ID: <u>920 Church St Sub Slab</u> TYPE (Circle One)*: <input checked="" type="radio"/> SS <input type="radio"/> IA <input type="radio"/> OA |
| PROJECT #: <u>25213180.06</u> | SAMPLE INTAKE HEIGHT: <u>NA</u> NA for SS |
| LOCATION: <u>Misc. Drills, WI</u> | APPROX PURGE VOLUME: <u>3.5L</u> NA for IA and OA |
| SAMPLER: <u>S. Smith</u> | APPROX SAMPLING DEPTH: <u>10"</u> NA for IA and OA |
| EQUIPMENT: <u>See previous sample</u> | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|---------|------|---------------------------|-----------|-----------------------|-----------------|-------------------------------|-----------------------|
| 3/18/14 | 1407 | -2.8 | 46.0 | 54 | 12.7 | 29.82 | 2405 |
| 3/18/14 | 1437 | -3.5 | 46.0 | 54 | 12.7 | 29.82 | — |

Summa Canister Information:

Sub-Slab Water Dam Test:

| |
|---|
| Canister Size: 1L <input checked="" type="radio"/> 6L |
| Canister ID# <u>ESS-6033</u> |
| Flow Controller ID# <u>2227</u> |

| |
|--|
| Test Passed: <input checked="" type="radio"/> Yes <input type="radio"/> No |
| NA - FOR AMBIENT AIR SAMPLES |

General Notes/Observations:

Background air = 246 ppb

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

Vapor Assessment Sample Collection Log

| | | |
|-----------------------------------|---|-------------------------------------|
| PROJECT: VIZC - Nemite Laundry | SAMPLE ID: ^{Brockes road} Outdoor Air | TYPE (Circle One)*: SS IA OA |
| PROJECT #: 25213180.06 | SAMPLE INTAKE HEIGHT: 16" | NA for SS |
| LOCATION: Wisc. Dells, WI | APPROX PURGE VOLUME: NA | NA for IA and OA |
| SAMPLER: S. Smith | APPROX SAMPLING DEPTH: NA | NA for IA and OA |
| EQUIPMENT: See previous sample | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|---------|------|---------------------------|-----------|-----------------------|-----------------|-------------------------------|-----------------------|
| 3/17/16 | 1353 | -28 | 33.1 | 37 | 17.3 | 29.86 | 118 |
| 3/18/14 | 1330 | 0 | 43.0 | 62 | 13.8 | 29.81 | — |

Summa Canister Information:

| | | |
|---------------------|----------|-----------|
| Canister Size: | 1L | 6L |
| Canister ID# | ESS-6016 | |
| Flow Controller ID# | 5400 | |

Sub-Slab Water Dam Test:

| | | |
|-------------------------------------|-----|----|
| Test Passed: | Yes | No |
| NA - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

PROJECT NO. 25213180-06

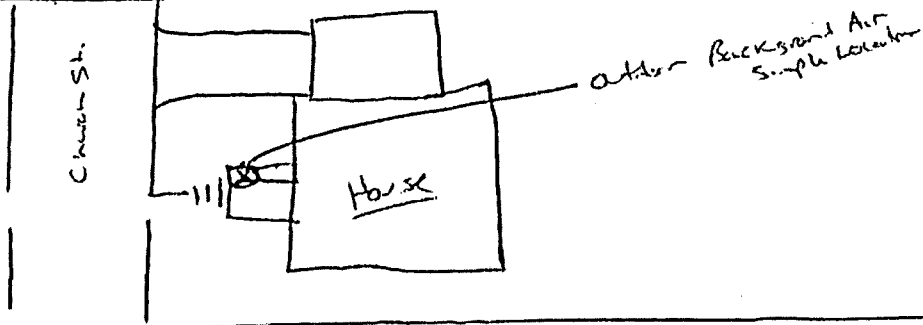
DATE 11/11/14

Background Outdoor Air
and
920 Church St.

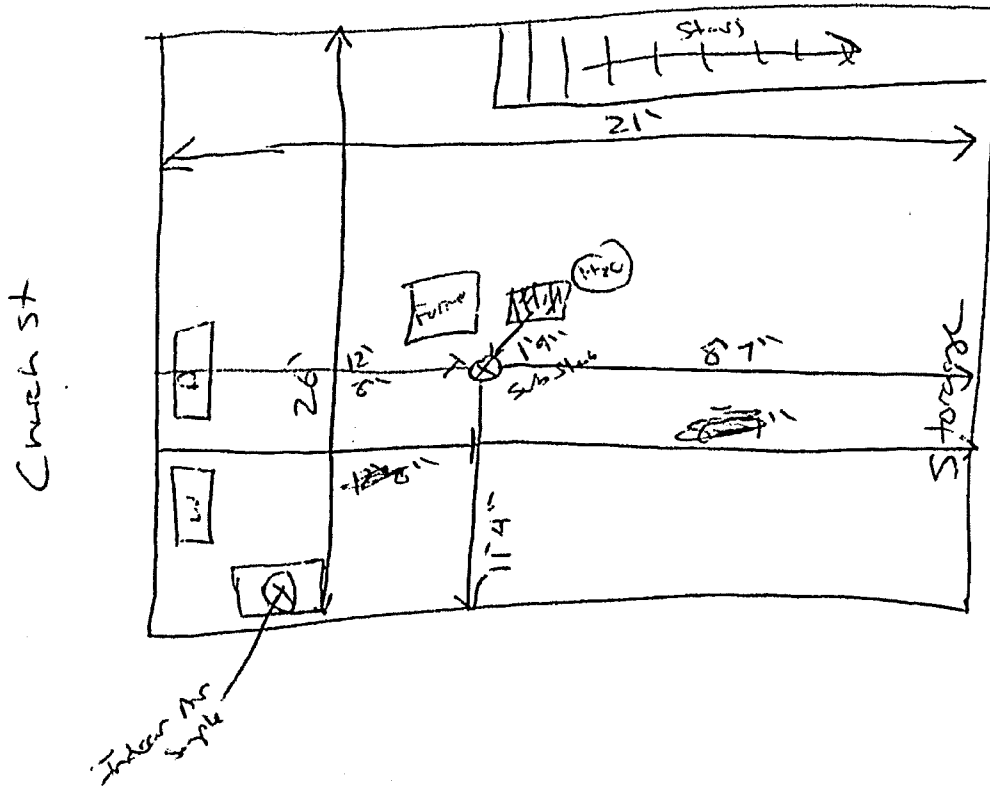
DATE 3/17/14

SAMPLE LOCATIONS SKETCH:

Background Outdoor Air



Basement



Vapor Assessment Sample Collection Log

| | |
|---------------------------------------|--|
| PROJECT: <u>VIZC - Nimitz Laundry</u> | SAMPLE ID: <u>921 Check St Indoor</u> TYPE (Circle One)*: SS <input checked="" type="radio"/> OA |
| PROJECT #: <u>25213180.06</u> | SAMPLE INTAKE HEIGHT: <u>16"</u> NA for SS |
| LOCATION: <u>Wisc. Dilly, WI</u> | APPROX PURGE VOLUME: <u>NA</u> NA for IA and OA |
| SAMPLER: <u>S. Smith</u> | APPROX SAMPLING DEPTH: <u>NA</u> NA for IA and OA |
| EQUIPMENT: <u>See previous sample</u> | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|----------------|-------------|---------------------------|-------------|-----------------------|-----------------|-------------------------------|-----------------------|
| <u>3/17/14</u> | <u>1500</u> | <u>-29.5</u> | <u>33.1</u> | <u>38</u> | <u>17.3</u> | <u>29.81</u> | <u>624</u> |
| <u>3/18/14</u> | <u>1500</u> | <u>-3</u> | <u>46.0</u> | <u>54</u> | <u>13.8</u> | <u>27.79</u> | <u>---</u> |

Summa Canister Information:

| | |
|---------------------|--|
| Canister Size: | 1L <input checked="" type="radio"/> 6L |
| Canister ID# | <u>DH-011</u> |
| Flow Controller ID# | <u>5834</u> |

Sub-Slab Water Dam Test:

| | | |
|---|-----|----|
| Test Passed: | Yes | No |
| <input checked="" type="radio"/> NA - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

Vapor Assessment
Sample Collection Log

| | |
|--|--|
| PROJECT: <u>VIZC -</u> <u>North Laundry</u> | SAMPLE ID: <u>921 Church St</u> <u>Sub Slab</u> TYPE (Circle One)*: <u>(SS)</u> IA OA |
| PROJECT #: <u>25213150.06</u> | SAMPLE INTAKE HEIGHT: <u>NA</u> NA for SS |
| LOCATION: <u>Wisc. Dr</u> | APPROX PURGE VOLUME: <u>3.5L</u> NA for IA and OA |
| SAMPLER: <u>S. Smith</u> | APPROX SAMPLING DEPTH: <u>10"</u> NA for IA and OA |
| EQUIPMENT: <u>See previous sample</u> | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm(ppb)) |
|----------------|-------------|------------------------------|--------------|--------------------------|--------------------|----------------------------------|---------------------------|
| <u>3/18/14</u> | <u>1517</u> | <u>-27</u> | <u>43.0</u> | <u>62</u> | <u>13.8</u> | <u>29.81</u> | <u>1220</u> |
| <u>3/18/14</u> | <u>1547</u> | <u>-1</u> | <u>46.0</u> | <u>54</u> | <u>12.7</u> | <u>29.82</u> | <u>—</u> |

Summa Canister Information:

| | |
|---------------------|-----------------|
| Canister Size: | 1L <u>(6L)</u> |
| Canister ID# | <u>ESS-6021</u> |
| Flow Controller ID# | <u>5470</u> |

Sub-Slab Water Dam Test:

| | |
|------------------------------|-----------------|
| Test Passed: | <u>(Yes)</u> No |
| NA - FOR AMBIENT AIR SAMPLES | |

General Notes/Observations:

Background air = 674 ppb

Abbreviations:

NA = Not Applicable
 SS = Sub-Slab
 IA = Indoor Air
 OA = Outdoor Air

Vapor Assessment Sample Collection Log

| | | |
|---|-------------------------------------|--------------------------------|
| PROJECT: VIZC - Nasmitz Laundry | SAMPLE ID: 1001 Church St Indoor | TYPE (Circle One)*: SS (IA) OA |
| PROJECT #: 25213180.06 | SAMPLE INTAKE HEIGHT: 16" | NA for SS |
| LOCATION: WI Drills, WI | APPROX PURGE VOLUME: NA | NA for IA and OA |
| SAMPLER: Smith | APPROX SAMPLING DEPTH: NA | NA for IA and OA |
| EQUIPMENT: Summa can, flow controller, ppbRAE PID | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|---------|------|------------------------------|--------------|--------------------------|--------------------|----------------------------------|--------------------------|
| 3/17/14 | 0921 | -2.8 | 19.9 | 78 | 8.1 | 30.02 | 302 |
| 3/18/14 | 0921 | -3.5 | 33.1 | 82 | 10.4 | 29.83 | — |

Summa Canister Information:

| | | |
|---------------------|----------|------|
| Canister Size: | 1L | (6L) |
| Canister ID# | ESS-6026 | |
| Flow Controller ID# | 05555 | |

Sub-Slab Water Dam Test:

| | | |
|--------------------------------|-----|----|
| Test Passed: | Yes | No |
| (NA) - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

Background Air = 302 ppb

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

Vapor Assessment Sample Collection Log

| | | |
|--|---|-------------------------------------|
| PROJECT: <u>VJZC - Newitz Laundry</u> | SAMPLE ID: <u>1001 Church St Sub Slab</u> | TYPE (Circle One)*: <u>SS</u> IA OA |
| PROJECT #: <u>25213120.00</u> | SAMPLE INTAKE HEIGHT: <u>N/A</u> | NA for SS |
| LOCATION: <u>U.S.C. Dells, WI</u> | APPROX PURGE VOLUME: <u>3.5L</u> | NA for IA and OA |
| SAMPLER: <u>S. Smith</u> | APPROX SAMPLING DEPTH: <u>10"</u> | NA for IA and OA |
| EQUIPMENT: <u>Summa can, flow controller, ppb21E PID, sub slab manifold, misc tubing and fittings.</u> | | |

Instrument/Weather Readings

| Date | Time | Canister Vacuum (" of Hg) | Temp (°F) | Relative Humidity (%) | Air Speed (mph) | Barometric Pressure (" of Hg) | PID Reading (ppm/ppb) |
|---------|------|---------------------------|-----------|-----------------------|-----------------|-------------------------------|-----------------------|
| 3/18/14 | 0949 | -27 | 36.0 | 76 | 16.1 | 29.83 | 534 |
| 3/18/14 | 1019 | -2 | 36.0 | 76 | 16.1 | 29.83 | — |

Summa Canister Information:

| | | |
|---------------------|---------------|------|
| Canister Size: | IL | (6L) |
| Canister ID# | <u>DH-001</u> | |
| Flow Controller ID# | <u>2228</u> | |

Sub-Slab Water Dam Test:

| | | |
|------------------------------|-------|----|
| Test Passed: | (Yes) | No |
| NA - FOR AMBIENT AIR SAMPLES | | |

General Notes/Observations:

pic. to ground air = 270 ppb

Abbreviations:

- NA = Not Applicable
- SS = Sub-Slab
- IA = Indoor Air
- OA = Outdoor Air

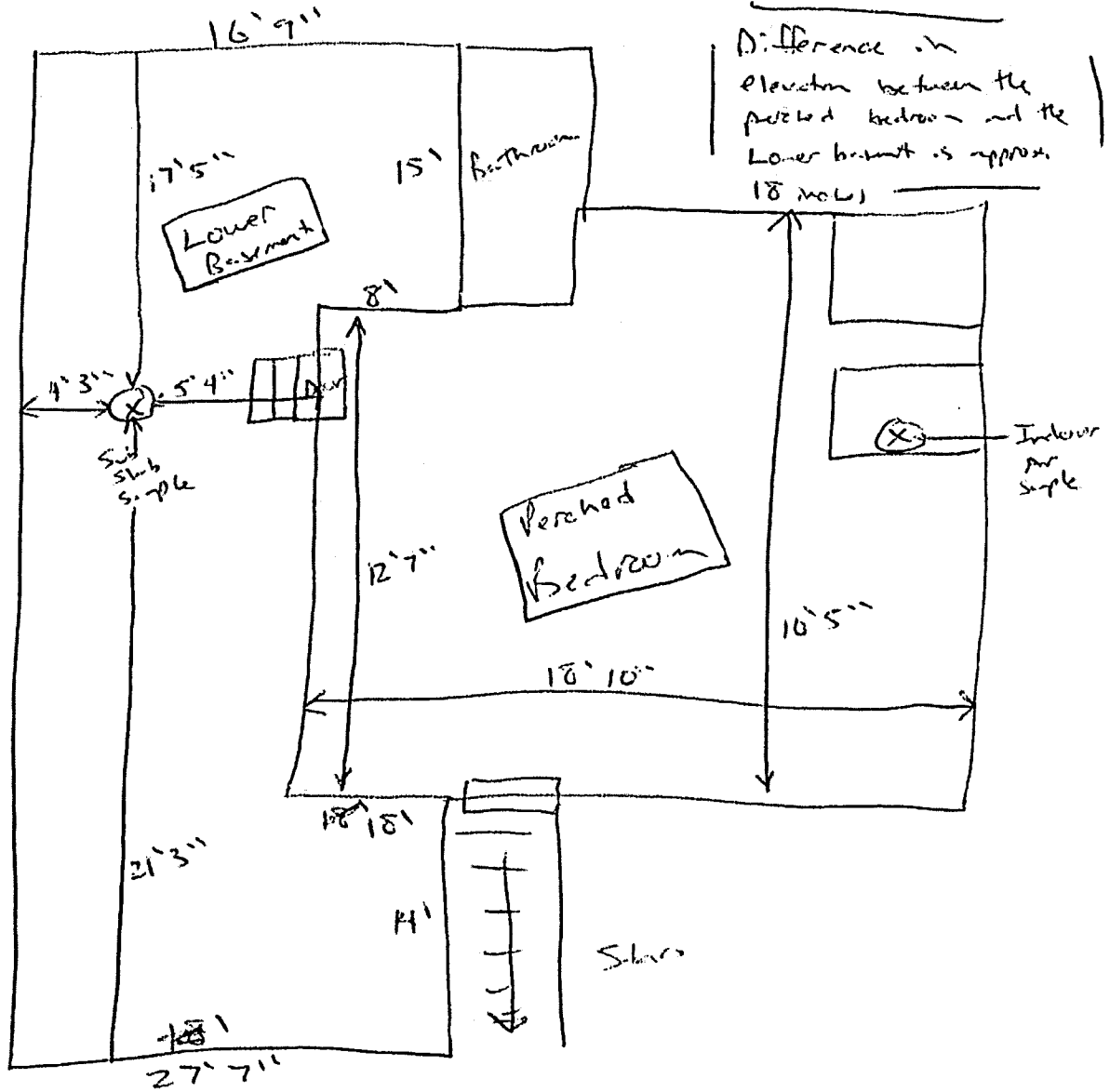
PROJECT # 25713180-06

1001 Church St

DATE 3/17/19

SAMPLE LOCATIONS SKETCH:

N ↑



↑

PROJECT #

SCS Engineers - Daily Field Sheet

| | |
|-----------------|------------------------|
| Project Name: | VIZC - Nornitz Laundry |
| Project Number: | 25213180-06 |
| Date: | 3/17/11 |
| Location: | Wisc. Dells, WI |

SCS Engineers Field Personnel

| | Name | Role | Time In | On Site | Off Site | Time Out | Break | Total Hours |
|---|--------------|------------|---------|---------|----------|----------|-------|-------------|
| 1 | Steven Smith | Field Tech | 0700 | 08:50 | 15:15 | 16:30 | 0.5 | 9.0 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

SCS Engineers Office/Admin Personnel

| | Name | Role | Time In | Time Out | Break | Total Hours |
|---|------|------|---------|----------|-------|-------------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

Subcontractor Personnel

Company: _____

| | Name | Role | Time In | On Site | Off Site | Time Out | Break | Total Hours |
|---|------|------|---------|---------|----------|----------|-------|-------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

Material Quantities Description Quantity Unit

| Material Quantities | Description | Quantity | Unit |
|---------------------|-------------|----------|------|
| | | | |
| | | | |
| | | | |
| Other: | | | |

Regulatory or other personnel on site

| | Name | Affiliation | On Site | Off Site |
|---|------|-------------|---------|----------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

SCS Engineers - Daily Field Sheet

| | |
|-----------------|-----------------------|
| Project Name: | VIZC - Nemitz Laundry |
| Project Number: | 25213180.06 |
| Date: | 3/17/14 |
| Location: | Wisc. Dells, WI |

Site Description and Weather: Cloudy, windy, cold, 16°F

Summary of Activities :

On site at 1001 Church St. - Knocked, no answer called - left message.

Porter's son let me in at 0945. Set up indoor air sample on top of washing machine in basement. Started sample at ⁰⁹²¹ 0946. Left site. Can is approx. 3' off ground.

916 Church St - Owner let me in. Set up summer can on top of furnace in the utility room approx. 3' off ground. Started sample at 1136. Left site.

920 Church St. - Talked with homeowner. Set up indoor sample on top of a chest freezer in basement approx. 3' off ground. Started sample at 1348.

Background Outdoor Air - Decided to set it up on the front porch of 920 Church St. because the porch is covered. Summer can attached to railing approx 3' off ground. Started sample at 1353. Left site.

921 Church St - Talked with homeowner. He said there may be rock directly under slab. Set up indoor air sample on top of chest freezer in laundry room approx. 3' off the ground. Started sample at 1500.

Cleaned up and left the site for the day.

Site Conditions upon departure:

Same

Field Sheet Completed by:

Name: Steve Smith Signature: [Signature]

Date: 3/17/14

SCS Engineers - Daily Field Sheet

| | |
|-----------------|-----------------------|
| Project Name: | VIZC - Nevada Laundry |
| Project Number: | 25213180-06 |
| Date: | 3/26/14 |
| Location: | W.S.C. Drills, WI |

SCS Engineers Field Personnel

| | Name | Role | Time In | On Site | Off Site | Time Out | Break | Total Hours |
|---|--------------|------------|---------|---------|----------|----------|-------|-------------|
| 1 | Steven Smith | Field Tech | 0800 | 0855 | 1610 | 1730 | - | 10.0 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

SCS Engineers Office/Admin Personnel

| | Name | Role | Time In | Time Out | Break | Total Hours |
|---|------|------|---------|----------|-------|-------------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

Subcontractor Personnel

Company: _____

| | Name | Role | Time In | On Site | Off Site | Time Out | Break | Total Hours |
|---|------|------|---------|---------|----------|----------|-------|-------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

| Material Quantities | Description | Quantity | Unit |
|---------------------|-------------|----------|------|
| | | | |
| | | | |
| | | | |
| Other: | | | |

Regulatory or other personnel on site

| | Name | Affiliation | On Site | Off Site |
|---|------|-------------|---------|----------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

SCS Engineers - Vapor Intrusion Contract Equipment and Materials Usage

Project Name: VIZC - Nantux Laundry

Proj No: 25213180.06

Date: 3/18/14

Vehicles

| | Trucks/Vans | Starting Mileage | Ending Mileage | Total Miles | Materials / Exp./Rented Equip. | Quantity |
|---|----------------------|------------------|----------------|-------------|--------------------------------|----------|
| 1 | 2003 Chevy Silverado | 177,840 | 177,966 | 126 | | |
| 2 | | | | | | |
| 3 | | | | | | |

| Field Instruments | Full Day | Half Day |
|---------------------------------|----------|----------|
| Photo-Ionization Detector (PID) | X | |
| Helium Meter (He) | | |
| | | |
| | | |

Field Sheet Completed by:

Name: Steven Smith

Signature: *Steven Smith*

SCS Engineers - Daily Field Sheet

| | |
|-----------------|----------------------|
| Project Name: | VIZC - Neenah County |
| Project Number: | 25213180-06 |
| Date: | 3/18/04 |
| Location: | Wisc. Dells, WI |

Site Description and Weather: mostly cloudy, calms 34°F

Summary of Activities:

1001 Church St - Took a few minutes to get lost in a complex in gear. Set up near center of lower basement. Drilled/installed the sub slab probe. Collected the indoor air sample. Set up for shut in test = passed, set up for H₂O dim test = passed. Started sample at 0949, and at 1019. Closed probe, mapped in area during sample collection. Connected gear and left the site.

916 Church St - Connected gear to basement. Set up in Utility Room - rest of basement is either tiled or carpeted. Collected the indoor air sample. Drilled/installed the sub slab sample. Set up for shut in test = passed, set up for H₂O dim test = passed. Started sample at 1149, and at 1219. Closed probe and cleaned up. Mapped basement. Could not enter 1 room - bathroom is occupied. Connected gear and left site.

920 Church St - On site. Connected gear to basement. Collected the indoor air sample. Set up sub slab near center of basement by brick supports. Drilled/installed the probe. Set up for shut in test = passed, set up for H₂O dim test = passed. Started sample at 1407, and at 1437. A hand-drawn probe - short 1 sub slab probe for next house. Filled hole with hydraulic cement. Connected gear - mapped during sample collection. Left site.

921 Church St - Connected gear. Collected indoor sample. Set up drilled/installed probe near center of basement. Shut in = passed, H₂O dim = passed. Started at 1511, and at 1547. Cleaned up and closed probe. Mapped during collection. Off site.

Site Conditions upon departure:

Same

Field Sheet Completed by:

Name: Steven Smith Signature: [Signature]

Date: 3/18/04

Bill To W DNR
Vapor Intrusion
Zone Contract

Report To SCS Engineers
2830 Daisy Dr.
Madison WI 53718

Phone # 608-229-2850
 FAX # 608-229-2859

Acct# RR0431

Collected By S.S.-th
 Date Sampled 3/17 - 3/18/14

Project Nemitz Laundry
 P.O.# 25213180.06

Email Stacy Smith & SCS Engineers, Inc
 Address(s) Relay.com & SCS Engineers, Inc

Tracer used (Y/N) NO
 Which Tracer? NO

Sample Type: AR - Outdoor Air
 AI - Indoor Air
 SS - Sub-Slab

SPECIAL INSTRUCTIONS: TO-15
Show List - TCE, PCE, Ethene
trans 1,2-DCA, vinyl chloride

| LAB USE ONLY | WSLH SAMPLE # | CUSTOMER FIELD # | SAMPLE TYPE (AR, AI, SS) | SAMPLE DATE | TIME ON | TIME OFF | INITIAL PRESSURE | FINAL PRESSURE | CANISTER NUMBER | (ppb) PID READING | Flow Controller SAMPLER NUMBER |
|--------------|---------------|--------------------------|--------------------------|--------------|---------|----------|------------------|----------------|-----------------|-------------------|--------------------------------|
| | | 1001 Church St. - Indoor | AI | 3/17-3/18/14 | 0921 | 0921 | -2.8 | -3.5 | ESS-6026 | 302 | 05555 |
| | | 916 Church St. - Indoor | AI | | 1136 | 1136 | -3.0 | -2.5 | ESS-6055 | 420 | 5346 |
| | | 920 Church St. - Indoor | AI | | 1348 | 1348 | -2.8 | -1.5 | ESS-6055 | 196 | 2934 |
| | | 921 Church St. - Indoor | AI | | 1500 | 1500 | -29.5 | -3.0 | DH-011 | 651 | 5834 |
| | | Background Outdoor Air | AR | | 1353 | 1330 | -2.8 | 0 | ESS-6026 | 118 | 5400 |
| | | 1001 Church St - Subslab | SS | 3/18/14 | 0949 | 1019 | -2.7 | -2 | DH-001 | 534 | 2228 |
| | | 916 Church St - Subslab | SS | | 1419 | 1219 | -2.4 | -1 | ESS-6037 | 4447 | 2235 |
| | | 920 Church St - Subslab | SS | | 1407 | 1437 | -2.8 | -3.5 | ESS-6053 | 2405 | 2227 |
| | | 921 Church St - Subslab | SS | | 1517 | 1547 | -2.7 | -1 | ESS-6021 | 1220 | 5470 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

chain of custody: Relinquished

[Signature]

Date: 3-19-14

Received:

[Signature]



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970001

Report To:

STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:

RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 1001 CHURCH ST - INDOOR
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 9:21:00 AM
 Collection Start: 03/17/14 09:21
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#:
 Sample Location:
 Sample Description:
 Sample Type: AI-INDOOR AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--------------------------|------------------------|--------|-------|-------|------|
| Prep Date 03/26/14 | Analysis Date 03/26/14 | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Tetrachloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.edu/nelap/>



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970001

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970002

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 916 CHURCH ST - INDOOR
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 11:36:00 AM
 Collection Start: 03/17/14 11:36
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: AI-INDOOR AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

Sample Comments

MDL not achievable due to high hydrocarbon background.

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--|-----------------|--------|-------|-----|-----|
| Prep Date 03/27/14 Analysis Date 03/27/14 | | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| Tetrachloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:

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 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970002

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970003

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 920 CHURCH ST - INDOOR
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 1:48:00 PM
 Collection Start: 03/17/14 13:48
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: AI-INDOOR AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--|-----------------|--------|-------|-------|------|
| Prep Date 03/26/14 Analysis Date 03/26/14 | | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Tetrachloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |

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 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970003

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970004

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 921 CHURCH ST - INDOOR
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 3:00:00 PM
 Collection Start: 03/17/14 15:00
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: AI-INDOOR AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--------------------------|------------------------|--------|-------|-------|------|
| Prep Date 03/28/14 | Analysis Date 03/28/14 | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Tetrachloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970004

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970005

Report To:

STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:

RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: BACKGRND OUTDOOR AIR
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 1:30:00 PM
 Collection Start: 03/17/14 13:53
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: AR-AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--------------------------|------------------------|--------|-------|-------|------|
| Prep Date 03/26/14 | Analysis Date 03/26/14 | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Tetrachloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.edu/nelap/>



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Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970005

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970006

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 1001 CHURCH ST - SUBSLAB
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 10:19:00 AM
 Collection Start: 03/18/14 09:49
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--|-----------------|--------|-------|-------|------|
| Prep Date 03/27/14 Analysis Date 03/27/14 | | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.085 | 0.28 |
| Tetrachloroethene | EPA TO-15 | 2.6 | ppbv | 0.085 | 0.28 |

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List of Abbreviations:

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 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
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 Z next to result = Result is between 0 (zero) and LOD
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970006

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970007

Report To:

STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:

RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 916 CHURCH ST - SUBSLAB
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 12:19:00 PM
 Collection Start: 03/18/14 11:49
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#:
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--------------------------|------------------------|--------|-------|-----|-----|
| Prep Date 03/28/14 | Analysis Date 03/28/14 | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 2.1 | 7.0 |
| Tetrachloroethene | EPA TO-15 | 3.1F | ppbv | 2.1 | 7.0 |

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List of Abbreviations:

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 LOQ = Level of quantification
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 Z next to result = Result is between 0 (zero) and LOD
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970007

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970008

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 920 CHURCH ST - SUBSLAB
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 2:37:00 PM
 Collection Start: 03/18/14 14:07
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--|-----------------|--------|-------|------|-----|
| Prep Date 03/28/14 Analysis Date 03/28/14 | | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.85 | 2.8 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.85 | 2.8 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.85 | 2.8 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.85 | 2.8 |
| Tetrachloroethene | EPA TO-15 | 3.8 | ppbv | 0.85 | 2.8 |

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970008

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 123970009

Report To:
 STEVE SMITH - SCS
 SCS ENGINEERS
 2830 DAIRY DRIVE
 MADISON, WI 53718

Invoice To:
 RON ARNESON
 WISCONSIN DEPARTMENT OF NATURAL
 RESOURCES

Customer ID: RR043

Field #: 921 CHURCH ST - SUBSLAB
 Project No: NEMITZ LAUNDRY
 Collection End: 3/18/2014 3:47:00 PM
 Collection Start: 03/18/14 15:17
 Collected By: STEVEN SMITH
 Date Received: 3/19/2014
 Date Reported: 3/31/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

| Analyte | Analysis Method | Result | Units | LOD | LOQ |
|--|-----------------|--------|-------|------|-----|
| Prep Date 03/28/14 Analysis Date 03/28/14 | | | | | |
| Vinyl chloride | EPA TO-15 | ND | ppbv | 0.43 | 1.4 |
| trans-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.43 | 1.4 |
| cis-1,2-Dichloroethene | EPA TO-15 | ND | ppbv | 0.43 | 1.4 |
| Trichloroethene | EPA TO-15 | ND | ppbv | 0.43 | 1.4 |
| Tetrachloroethene | EPA TO-15 | 6.6 | ppbv | 0.43 | 1.4 |

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Laboratory Report

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Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 123970009

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

