State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

August 9, 2017

Mr. Robert Franz
c/o Hub Pub
15672 State Highway 80
Richland Center, WI 53581

File Ref: 03-53-000559

Subject: Air, Water Well, and Basement Sump Water - Sampling Results
Hub Pub, 15672 State Highway 80, Hub City

Dear Mr. Franz:

This letter includes results and observations from sampling air, the water well, and basement sump water at the Hub Pub, located at 15672 State Highway 80, in Hub City, Wisconsin. The samples were obtained by Department of Natural Resources (DNR) and Department of Health Services personnel on July 5, 2017. Also included is information the DNR received regarding explosive vapor screening performed on June 29, 2017 by Richland County Emergency Planning and the Richland Center Fire Department.

The explosive vapor screening and the air and water sampling were performed because the basement sump water appeared to be contaminated with petroleum constituents and petroleum-like vapors were also noted. A Water Supply Specialist for the DNR noticed this during a water system inspection at the Hub Pub on June 28, 2017.

The next day, on June 29, 2017, you notified the DNR and requested assistance regarding the apparent sump water contamination and petroleum-like odors coming from the sump water. You requested analysis for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and vapor tests.

Following your request for assistance, the DNR spoke with DHS personnel to develop an approach to address the potential risk associated with the apparent petroleum-contaminated basement sump water. The first priority was to evaluate the risk of possible explosion due to petroleum-like vapors.

Explosive Vapor Testing

On June 29, 2017, the DNR contacted the Richland Center Fire Department requesting them to measure for possible explosive vapors due to the petroleum-like odors from the basement sump at the Hub Pub. The DHS notified Troy Moris, Environmental Health Coordinator (for Richland and other counties) and Jim Beix, Emergency Response Coordinator for the Department of Agriculture Trade and Consumer Protection (DATCP) (Hub Pub is a DATCP-licensed facility).

Following your approval and closing of the bar, the air at the Hub Pub was tested for explosive vapors on June 29, 2017. Mr. John Heinen of Richland County Local Emergency Planning and Brian Jones of the Richland Center Fire Department measured for explosive vapors at the Hub Pub. In the evening of June 29, 2017, Mr. John Heinen told the DNR that their measurements indicated that there were no explosive hazards associated with the petroleum odors coming from the sump in the basement of the Hub Pub. In a phone call on June 30, 2017, the DNR shared these results of the explosive vapor testing, and you said you were aware of the results.

Air, Water Well, and Sump Water Sampling Plans and Personnel

After the explosive vapor testing, the DNR and DHS made plans to check for inhalation risk by sampling the air in the basement, first floor and outside the building of the Hub Pub. The Hub Pub well water was also identified as being at risk, and the sampling of the water well was planned. The sampling of the water in the basement sump was also planned.

On July 5, 2017, DNR and DHS personnel and Troy Moris met you at the Hub Pub, to discuss the sampling approach and perform the sampling of the air, water well, and sump water. At that time you showed us the sump water discharging to the ground on your property.

Air Sampling Results

Two methods were used by DHS personnel to screen indoor and outdoor air at the Hub Pub: real-time screening using a hand-held photoionization detector (PID), and grab samples for laboratory analysis using three SUMMA vacuum canisters. Of these, the lab-analyzed samples undergo quality reliability and assurance and are most reliable; the PID readings are not chemical-specific, and are best used for rough screening. In addition, tests of indoor air by either of these methods tend to vary greatly both daily and seasonally. Under the conditions present on July 5, 2017, no air impacts above public health standards were observed.

The grab air samples using SUMMA canisters were obtained at three locations. One canister sample was obtained outdoors upwind about 100 feet of the Hub Pub residence, one was obtained in the basement near the open sump, and one was obtained on the first floor at breathing height in the center of the kitchen behind the bar. The air sampling laboratory reports for the samples collected using the SUMMA canisters are included in Attachment A.

As described by DHS, the air sampling screening results were consistent with the olfactory sense during the visit. In general, there were trace detects, below quantitation and below odor thresholds, of several petroleum-related chemicals and of several chemicals commonly found in household products. All detects were well below hazard levels and were not unusual for what is commonly seen around residences. However, a more reliable measure of indoor air impacts from soil and groundwater contaminants is a sub-slab vapor intrusion investigation. In a Notice of Non-Compliance letter (see below in Recommendations), the DNR is requiring the owners of the nearby Anderson Property to perform a vapor intrusion investigation at the Hub Pub.

Water Well Sampling Results

DHS personnel obtained water samples from the Hub Pub water well near the location of the pressure tank near the north wall of the basement. The water well is located outside the building on the other side of the basement wall, opposite the pressure tank.

The well water samples were analyzed for VOCs. No VOCs were detected in the Hub Pub water well samples. The laboratory report for the well water sample is included in Attachment B.

Sump Water Sampling Results

The DNR sampled the water in the basement sump. The sump is in the same basement room as where the water well samples were collected. The floor of the basement is approximately six feet below ground surface. The basement room is approximately 20-feet by 13-feet in size and is located beneath the north half of the building. The sump is located at the southwest corner of the basement room.

The water was sampled from the sump using a bailer. The sump water samples appeared light brown and cloudy, but some were clear. Petroleum product did not appear to be present in the water samples. The samples were analyzed for VOCs and PAHs. The laboratory reports are in Attachment C.

As we discussed by phone on July 13, 2017, laboratory analytical results indicated that petroleum contaminants were detected in the basement sump water samples at concentrations that exceeded the NR 140 enforcement standards. For reference, the enforcement standard is equivalent to the drinking water standard.

Benzene (a VOC) was detected at a concentration of 330 parts-per-billion (ppb), and this exceeds the NR 140 enforcement standard of 5.0 ppb. The NR 140 groundwater enforcement standard of 0.2 ppb was exceeded for benzo(a)pyrene (0.47 ppb), benzo(b)fluoranthene (0.51 ppb), and chrysene (0.62 ppb) (PAH compounds).

Sump Water Discharge Observations

Sump water discharged intermittently from a flexible black plastic pipe onto the yard northwest of the Hub Pub building and west of the garage. Stressed vegetation appeared to be observed over an approximate 40-foot by 40-foot area, although you indicated that you place sand over the ground in the discharge area. Some of the water on the ground in the vicinity of the hose had a petroleum-like sheen, and there was some orange discoloration. Slight petroleum-like odors were present in the air.

Recommendations

As we have discussed, and as suggested by health department personnel, the Hub Pub should be ventilated, a cover installed on the sump pump, and a fence should be installed around the sump discharge area to prevent people from coming into contact with the water.

The DNR has strong evidence to suggest that the petroleum constituents detected in your basement sump water originated from the Anderson Property site, a former service station site located north of the Hub Pub. The Anderson property site is an open case with the DNR (BRRTS #03-53-000559).

The DNR has issued a Notice of Non-Compliance letter to the owners of the Anderson Property site, requiring them to hire a consultant to contain and properly dispose of the sump water discharging at your property, perform a vapor intrusion investigation at the Hub Pub, plan for and then sample your water well, and perform a complete site investigation along with developing a remedial approach. Other work is likely to take place. Please cooperate fully with other parties in this endeavor, as they will ask you to grant access to perform this work, including the installation and sampling of soil borings and monitoring wells, and possible remediation on your property.

If you have any questions, please contact me in writing at the letterhead address, by telephone at 608-275-3222 or by email at john.mason@wisconsin.gov.

Sincerely,

John Mason

John Mason
Project Manager

cc: Ed Berry and Rita Thielmann, 15625 STH 80, Richland Center, WI, 53581
Robert Thiboldeaux, DHS, 1 West Wilson Street, Rm 150, Madison, WI 53701
Steven Martin, DNR

Attachment A – Air Sampling Lab Reports for Hub Pub

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

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 - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908001

Report To:
RICHLAND CO HEALTH DEPT
221 W. SEMINARY ST.
RICHLAND CENTER, WI 53581

Invoice To:
DEPARTMENT OF HEALTH

Customer ID: DH060

Field #: OUTSIDE
Project No:
Collection End: 7/5/2017 11:36:00 AM
Collection Start: 07/05/17 11:35
Collected By:
Date Received: 7/5/2017
Date Reported: 7/14/2017
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 07/06/17 Analysis Date 07/06/17					
Propene	EPA TO-15	<0.043	ppbv	0.029	0.096
Interference					
The Lower QC limit for the calibration check is exceeded.					
Chloromethane	EPA TO-15	0.54	ppbv	0.018	0.061
1,2-Dichlorotetrafluoroethane	EPA TO-15	ND	ppbv	0.038	0.13
Vinyl chloride	EPA TO-15	ND	ppbv	0.016	0.053
1,3-Butadiene	EPA TO-15	ND	ppbv	0.024	0.081
Bromomethane	EPA TO-15	ND	ppbv	0.021	0.070
Chloroethane	EPA TO-15	ND	ppbv	0.032	0.11
Acrolein	EPA TO-15	0.081F	ppbv	0.060	0.20
QC limit for precision exceeded.					
Trichlorofluoromethane	EPA TO-15	0.21	ppbv	0.017	0.056
1,1-Dichloroethene	EPA TO-15	ND	ppbv	0.019	0.062
Methylene chloride	EPA TO-15	0.057	ppbv	0.015	0.051
QC limit for precision exceeded.					
Carbon disulfide	EPA TO-15	ND	ppbv	0.014	0.047

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WSLH Sample: 325908001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17 Analysis Date 07/06/17					
Trichlorotrifluoroethane	EPA TO-15	0.042F	ppbv	0.019	0.063
trans-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.021	0.068
1,1-Dichloroethane	EPA TO-15	ND	ppbv	0.016	0.053
Methyl tert-Butyl ether (MTBE)	EPA TO-15	ND	ppbv	0.017	0.056
The Lower QC limit for the calibration check is exceeded.					
Vinyl acetate	EPA TO-15	ND	ppbv	0.031	0.10
Methyl Ethyl Ketone (MEK)	EPA TO-15	0.44	ppbv	0.037	0.12
cis-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.014	0.047
Hexane	EPA TO-15	ND	ppbv	0.033	0.11
Chloroform	EPA TO-15	ND	ppbv	0.023	0.078
Tetrahydrofuran	EPA TO-15	ND	ppbv	0.025	0.083
1,2-Dichloroethane	EPA TO-15	ND	ppbv	0.019	0.063
1,1,1-Trichloroethane	EPA TO-15	ND	ppbv	0.012	0.041
Benzene	EPA TO-15	0.050	ppbv	0.014	0.046
Carbon tetrachloride	EPA TO-15	0.058	ppbv	0.013	0.043
Cyclohexane	EPA TO-15	ND	ppbv	0.017	0.057
1,2-Dichloropropane	EPA TO-15	ND	ppbv	0.045	0.15
Bromodichloromethane	EPA TO-15	ND	ppbv	0.014	0.045
Trichloroethene	EPA TO-15	ND	ppbv	0.015	0.049
n-Heptane	EPA TO-15	ND	ppbv	0.013	0.044
cis-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.016	0.54
4-Methyl-2-pentanone (MIBK)	EPA TO-15	ND	ppbv	0.022	0.073
trans-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.020	0.068
1,1,2-Trichloroethane	EPA TO-15	ND	ppbv	0.013	0.042
Toluene	EPA TO-15	0.052F	ppbv	0.016	0.053
2-Hexanone	EPA TO-15	ND	ppbv	0.044	0.15
Chlorodibromomethane	EPA TO-15	ND	ppbv	0.013	0.043
1,2-Dibromoethane	EPA TO-15	ND	ppbv	0.018	0.061
Tetrachloroethene	EPA TO-15	ND	ppbv	0.034	0.11

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17 Analysis Date 07/06/17					
Chlorobenzene	EPA TO-15	ND	ppbv	0.016	0.054
Ethyl Benzene	EPA TO-15	0.026F	ppbv	0.022	0.073
m/p-xylene	EPA TO-15	0.043F	ppbv	0.042	0.14
Bromoform	EPA TO-15	ND	ppbv	0.017	0.057
Styrene	EPA TO-15	ND	ppbv	0.035	0.12
1,1,2,2-Tetrachloroethane	EPA TO-15	ND	ppbv	0.016	0.053
o-Xylene	EPA TO-15	0.026F	ppbv	0.023	0.077
1-ethyl-4-methyl benzene	EPA TO-15	ND	ppbv	0.034	0.11
1,3,5-Trimethylbenzene	EPA TO-15	ND	ppbv	0.032	0.11
1,2,4-Trimethylbenzene	EPA TO-15	0.043F	ppbv	0.041	0.14
1,3-Dichlorobenzene	EPA TO-15	ND	ppbv	0.034	0.11
1,4-Dichlorobenzene	EPA TO-15	0.27	ppbv	0.041	0.14
1,2-Dichlorobenzene	EPA TO-15	ND	ppbv	0.030	0.10
Hexachlorobutadiene	EPA TO-15	ND	ppbv	0.042	0.14

The Upper QC limit for the calibration check is exceeded.

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.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.

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

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WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908001

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908002

Report To:
RICHLAND CO HEALTH DEPT
221 W. SEMINARY ST.
RICHLAND CENTER, WI 53581

Invoice To:
DEPARTMENT OF HEALTH

Customer ID: DH060

Field #: BASEMENT NEAR SUMP
Project No:
Collection End: 7/5/2017 11:40:00 AM
Collection Start: 07/05/2017 11:40
Collected By:
Date Received: 7/5/2017
Date Reported: 7/14/2017
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 07/06/17 Analysis Date 07/06/17					
Propene	EPA TO-15	<89.786	ppbv	0.73	2.4
Interference					
The Lower QC limit for the calibration check is exceeded.					
Chloromethane	EPA TO-15	2.7	ppbv	0.45	1.5
1,2-Dichlorotetrafluoroethane	EPA TO-15	ND	ppbv	0.95	3.2
Vinyl chloride	EPA TO-15	ND	ppbv	0.40	1.3
1,3-Butadiene	EPA TO-15	ND	ppbv	0.60	2.0
Bromomethane	EPA TO-15	ND	ppbv	0.53	1.8
Chloroethane	EPA TO-15	ND	ppbv	0.80	2.7
Acrolein	EPA TO-15	ND	ppbv	1.5	5.0
QC limit for precision exceeded.					
Trichlorofluoromethane	EPA TO-15	2.0	ppbv	0.43	1.4
1,1-Dichloroethene	EPA TO-15	ND	ppbv	0.48	1.6
Methylene chloride	EPA TO-15	ND	ppbv	0.38	1.3
QC limit for precision exceeded.					
Carbon disulfide	EPA TO-15	ND	ppbv	0.35	1.2

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WSLH Sample: 325908002

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17 Analysis Date 07/06/17					
Trichlorotrifluoroethane	EPA TO-15	ND	ppbv	0.48	1.6
trans-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.53	1.7
1,1-Dichloroethane	EPA TO-15	ND	ppbv	0.40	1.3
Methyl tert-Butyl ether (MTBE)	EPA TO-15	ND	ppbv	0.43	1.4
The Lower QC limit for the calibration check is exceeded.					
Vinyl acetate	EPA TO-15	ND	ppbv	0.78	2.6
Methyl Ethyl Ketone (MEK)	EPA TO-15	ND	ppbv	0.93	3.1
cis-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.35	1.2
Hexane	EPA TO-15	ND	ppbv	0.83	2.8
Chloroform	EPA TO-15	ND	ppbv	0.58	2.0
Tetrahydrofuran	EPA TO-15	2.2	ppbv	0.63	2.1
1,2-Dichloroethane	EPA TO-15	ND	ppbv	0.48	1.6
1,1,1-Trichloroethane	EPA TO-15	ND	ppbv	0.30	1.0
Benzene	EPA TO-15	1.0F	ppbv	0.35	1.2
Carbon tetrachloride	EPA TO-15	ND	ppbv	0.33	1.1
Cyclohexane	EPA TO-15	0.45F	ppbv	0.43	1.4
1,2-Dichloropropane	EPA TO-15	ND	ppbv	1.1	3.8
Bromodichloromethane	EPA TO-15	ND	ppbv	0.35	1.1
Trichloroethene	EPA TO-15	ND	ppbv	0.38	1.2
n-Heptane	EPA TO-15	ND	ppbv	0.33	1.1
cis-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.40	14
4-Methyl-2-pentanone (MIBK)	EPA TO-15	ND	ppbv	0.55	1.8
trans-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.50	1.7
1,1,2-Trichloroethane	EPA TO-15	ND	ppbv	0.33	1.1
Toluene	EPA TO-15	0.71F	ppbv	0.40	1.3
2-Hexanone	EPA TO-15	ND	ppbv	1.1	3.7
Chlorodibromomethane	EPA TO-15	ND	ppbv	0.33	1.1
1,2-Dibromoethane	EPA TO-15	ND	ppbv	0.45	1.5
Tetrachloroethene	EPA TO-15	ND	ppbv	0.85	2.9

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908002

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17 Analysis Date 07/06/17					
Chlorobenzene	EPA TO-15	ND	ppbv	0.40	1.4
Ethyl Benzene	EPA TO-15	ND	ppbv	0.55	1.8
m/p-xylene	EPA TO-15	1.2F	ppbv	1.1	3.5
Bromoform	EPA TO-15	ND	ppbv	0.43	1.4
Styrene	EPA TO-15	ND	ppbv	0.88	2.9
1,1,2,2-Tetrachloroethane	EPA TO-15	ND	ppbv	0.40	1.3
o-Xylene	EPA TO-15	ND	ppbv	0.58	1.9
1-ethyl-4-methyl benzene	EPA TO-15	ND	ppbv	0.85	2.8
1,3,5-Trimethylbenzene	EPA TO-15	ND	ppbv	0.80	2.7
1,2,4-Trimethylbenzene	EPA TO-15	ND	ppbv	1.0	3.4
1,3-Dichlorobenzene	EPA TO-15	ND	ppbv	0.85	2.8
1,4-Dichlorobenzene	EPA TO-15	2.1F	ppbv	1.0	3.4
1,2-Dichlorobenzene	EPA TO-15	ND	ppbv	0.75	2.5
Hexachlorobutadiene	EPA TO-15	ND	ppbv	1.1	3.5

The Upper QC limit for the calibration check is exceeded.

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.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.

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WSLH Sample: 325908002

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908003

Report To:
RICHLAND CO HEALTH DEPT
221 W. SEMINARY ST.
RICHLAND CENTER, WI 53581

Invoice To:
DEPARTMENT OF HEALTH

Customer ID: DH060

Field #: KITCHEN-CENTRAL TABLE
Project No:
Collection End: 7/5/2017 11:55:00 AM
Collection Start: 07/05/2017 11:55
Collected By:
Date Received: 7/5/2017
Date Reported: 7/14/2017
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 07/06/17 Analysis Date 07/06/17					
Propene	EPA TO-15	ND	ppbv	0.058	0.19
The Lower QC limit for the calibration check is exceeded.					
Chloromethane	EPA TO-15	ND	ppbv	0.036	0.12
1,2-Dichlorotetrafluoroethane	EPA TO-15	ND	ppbv	0.076	0.25
Vinyl chloride	EPA TO-15	ND	ppbv	0.032	0.11
1,3-Butadiene	EPA TO-15	ND	ppbv	0.048	0.16
Bromomethane	EPA TO-15	ND	ppbv	0.042	0.14
Chloroethane	EPA TO-15	ND	ppbv	0.064	0.21
Acrolein	EPA TO-15	0.94	ppbv	0.12	0.40
QC limit for precision exceeded.					
Trichlorofluoromethane	EPA TO-15	1.8	ppbv	0.034	0.11
1,1-Dichloroethene	EPA TO-15	ND	ppbv	0.038	0.12
Methylene chloride	EPA TO-15	10	ppbv	0.030	0.10
QC limit for precision exceeded.					
Carbon disulfide	EPA TO-15	0.035F	ppbv	0.028	0.094
Trichlorotrifluoroethane	EPA TO-15	ND	ppbv	0.038	0.13

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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 - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908003

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17 Analysis Date 07/06/17					
trans-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.042	0.14
1,1-Dichloroethane	EPA TO-15	ND	ppbv	0.032	0.11
Methyl tert-Butyl ether (MTBE)	EPA TO-15	ND	ppbv	0.034	0.11
The Lower QC limit for the calibration check is exceeded.					
Vinyl acetate	EPA TO-15	0.31	ppbv	0.062	0.21
Methyl Ethyl Ketone (MEK)	EPA TO-15	0.83	ppbv	0.074	0.25
cis-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.028	0.094
Hexane	EPA TO-15	ND	ppbv	0.066	0.22
Chloroform	EPA TO-15	ND	ppbv	0.046	0.16
Tetrahydrofuran	EPA TO-15	0.64	ppbv	0.050	0.17
1,2-Dichloroethane	EPA TO-15	ND	ppbv	0.038	0.13
1,1,1-Trichloroethane	EPA TO-15	1.8	ppbv	0.024	0.082
Benzene	EPA TO-15	0.18	ppbv	0.028	0.092
Carbon tetrachloride	EPA TO-15	0.048F	ppbv	0.026	0.086
Cyclohexane	EPA TO-15	0.080F	ppbv	0.034	0.11
1,2-Dichloropropane	EPA TO-15	ND	ppbv	0.090	0.30
Bromodichloromethane	EPA TO-15	ND	ppbv	0.028	0.090
Trichloroethene	EPA TO-15	ND	ppbv	0.030	0.098
n-Heptane	EPA TO-15	2.1	ppbv	0.026	0.088
cis-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.032	1.1
4-Methyl-2-pentanone (MIBK)	EPA TO-15	ND	ppbv	0.044	0.15
trans-1,3-Dichloropropene	EPA TO-15	ND	ppbv	0.040	0.14
1,1,2-Trichloroethane	EPA TO-15	ND	ppbv	0.026	0.084
Toluene	EPA TO-15	2.8	ppbv	0.032	0.11
2-Hexanone	EPA TO-15	ND	ppbv	0.088	0.29
Chlorodibromomethane	EPA TO-15	ND	ppbv	0.026	0.086
1,2-Dibromoethane	EPA TO-15	ND	ppbv	0.036	0.12
Tetrachloroethene	EPA TO-15	1.2	ppbv	0.068	0.23
Chlorobenzene	EPA TO-15	ND	ppbv	0.032	0.11

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908003

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/06/17	Analysis Date 07/06/17				
Ethyl Benzene	EPA TO-15	0.14F	ppbv	0.044	0.15
m/p-xylene	EPA TO-15	0.36	ppbv	0.084	0.28
Bromoform	EPA TO-15	ND	ppbv	0.034	0.11
Styrene	EPA TO-15	0.16F	ppbv	0.070	0.23
1,1,2,2-Tetrachloroethane	EPA TO-15	ND	ppbv	0.032	0.11
o-Xylene	EPA TO-15	0.11F	ppbv	0.046	0.15
1-ethyl-4-methyl benzene	EPA TO-15	0.090F	ppbv	0.068	0.23
1,3,5-Trimethylbenzene	EPA TO-15	0.067F	ppbv	0.064	0.22
1,2,4-Trimethylbenzene	EPA TO-15	0.13F	ppbv	0.082	0.27
1,3-Dichlorobenzene	EPA TO-15	ND	ppbv	0.068	0.23
1,2-Dichlorobenzene	EPA TO-15	0.23	ppbv	0.060	0.20
Hexachlorobutadiene	EPA TO-15	ND	ppbv	0.084	0.28
The Upper QC limit for the calibration check is exceeded.					
Prep Date 07/07/17	Analysis Date 07/07/17				
1,4-Dichlorobenzene	EPA TO-15	170	ppbv	1.0	3.4
Results are approximate, above upper calibration range.					

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.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.

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

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325908003

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

Attachment B – Water Well Sampling Laboratory Report for Hub Pub

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Laboratory Report

D.F. Kuryez, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

VDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

Report To:
RICHLAND CO HEALTH DEPT
221 W. SEMINARY ST.
RICHLAND CENTER, WI 53581

Invoice To:
DEPARTMENT OF HEALTH

Customer ID: DH060

ield #: 1
roject No:

ollection End: 7/5/2017 11:21:00 AM
ollection
ollected By: MALONEY/METCALF-DHS
ate Received: 7/5/2017
ate Reported: 7/11/2017
ample Reason:

ID#: NA
Sample Location: 15672 STATE HWY 80
RICHLAND CENTER, WI 53581
Sample VOC SAMPLE-DRINKING WATER
Sample Type:
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

OC-Volatiles

nalyte	Analysis Method	Result	Units	LOD	LOQ
rep Date 07/08/17 Analysis Date 07/08/17					
Dichlorodifluoromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloromethane	EPA 8260B in Water	ND	ug/L	1.0	3.2
Vinyl chloride	EPA 8260B in Water	ND	ug/L	0.20	0.64
Bromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Trichlorofluoromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Acetone	EPA 8260B in Water	ND	ug/L	3.0	9.5
1,1-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
Trichlorotrifluoroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Methylene chloride	EPA 8260B in Water	ND	ug/L	0.50	1.6
Carbon disulfide	EPA 8260B in Water	ND	ug/L	0.30	0.95
trans-1,2-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
Methyl tert-Butyl ether (MTBE)	EPA 8260B in Water	ND	ug/L	0.30	0.95
1,1-Dichloroethane	EPA 8260B in Water	ND	ug/L	0.30	0.95
Hexane	EPA 8260B in Water	ND	ug/L	0.50	1.6

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/08/17 Analysis Date 07/08/17					
Isopropyl Ether	EPA 8260B in Water	ND	ug/L	0.25	0.80
Methyl Ethyl Ketone (MEK)	EPA 8260B in Water	ND	ug/L	3.0	9.5
cis-1,2-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.30	0.95
2,2-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloroform	EPA 8260B in Water	ND	ug/L	0.25	0.80
Bromochloromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Tetrahydrofuran	EPA 8260B in Water	ND	ug/L	2.0	6.4
1,1,1-Trichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,1-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Carbon tetrachloride	EPA 8260B in Water	ND	ug/L	0.50	1.6
Benzene	EPA 8260B in Water	ND	ug/L	0.30	0.95
Trichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Dibromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Bromodichloromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
cis-1,3-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.30	0.95
4-Methyl-2-pentanone (MIBK)	EPA 8260B in Water	ND	ug/L	2.0	6.4
Toluene	EPA 8260B in Water	ND	ug/L	0.25	0.80
trans-1,3-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,1,2-Trichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,3-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.30	0.95
Chlorodibromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Tetrachloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dibromoethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chlorobenzene	EPA 8260B in Water	ND	ug/L	0.25	0.80
1,1,1,2-Tetrachloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Ethyl Benzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
m/p-xylene	EPA 8260B in Water	ND	ug/L	0.40	1.3

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

OC-Volatiles

Analyte		Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/08/17	Analysis Date	07/08/17				
Styrene		EPA 8260B in Water	ND	ug/L	0.25	0.80
o-Xylene		EPA 8260B in Water	ND	ug/L	0.30	0.95
Bromoform		EPA 8260B in Water	ND	ug/L	1.0	3.2
1,1,2,2-Tetrachloroethane		EPA 8260B in Water	ND	ug/L	0.50	1.6
Isopropylbenzene (Cumene)		EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2,3-Trichloropropane		EPA 8260B in Water	ND	ug/L	1.0	3.2
Bromobenzene		EPA 8260B in Water	ND	ug/L	0.50	1.6
n-Propylbenzene		EPA 8260B in Water	ND	ug/L	0.20	0.64
2-Chlorotoluene		EPA 8260B in Water	ND	ug/L	0.30	0.95
4-Chlorotoluene		EPA 8260B in Water	ND	ug/L	0.30	0.95
1,3,5-Trimethylbenzene		EPA 8260B in Water	ND	ug/L	0.20	0.64
tert-Butylbenzene		EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2,4-Trimethylbenzene		EPA 8260B in Water	ND	ug/L	0.20	0.64
sec-Butylbenzene		EPA 8260B in Water	ND	ug/L	0.20	0.64
1,3-Dichlorobenzene		EPA 8260B in Water	ND	ug/L	0.25	0.80
1,4-Dichlorobenzene		EPA 8260B in Water	ND	ug/L	0.25	0.80
4-Isopropyltoluene		EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2-Dichlorobenzene		EPA 8260B in Water	ND	ug/L	0.25	0.80
n-Butylbenzene		EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2-Dibromo-3-chloropropane		EPA 8260B in Water	ND	ug/L	1.0	3.2
1,2,4-Trichlorobenzene		EPA 8260B in Water	ND	ug/L	0.50	1.6
Naphthalene		EPA 8260B in Water	ND	ug/L	0.30	0.95
Hexachlorobutadiene		EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2,3-Trichlorobenzene		EPA 8260B in Water	ND	ug/L	0.50	1.6

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http://www.slh.wisc.edu

Laboratory Report

D.F. Kuritzer, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 326902001

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
f LOD=LOQ, Limits were not statistically derived

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Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.
This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.
The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Environmental Health Division

NDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

RICHLAND COUNTY
JUL 13 2017
HEALTH & HUMAN SERVICE
RICHLAND CENTER, WI

Report To:
RICHLAND CO HEALTH DEPT
221 W. SEMINARY ST.
RICHLAND CENTER, WI 53581

Invoice To:
DEPARTMENT OF HEALTH

Customer ID: DH060

ield #: 1
roject No:

ollection End: 7/5/2017 11:21:00 AM
ollection
ollected By: MALONEY/METCALF-DHS
ate Received: 7/5/2017
ate Reported: 7/11/2017
ample Reason:

ID#: NA
Sample Location: 15872 STATE HWY 80
RICHLAND CENTER, WI 53581
Sample VOC SAMPLE-DRINKING WATER
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

ample Comments

RE-REPORTING TO ADD SAMPLE TYPE.

C-Volatiles

nalyte	Analysis Method	Result	Units	LOD	LOQ
ep Date 07/08/17 Analysis Date	07/08/17				
Dichlorodifluoromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloromethane	EPA 8260B in Water	ND	ug/L	1.0	3.2
Vinyl chloride	EPA 8260B in Water	ND	ug/L	0.20	0.64
Bromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Trichlorofluoromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Acetone	EPA 8260B in Water	ND	ug/L	3.0	9.5
1,1-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
Trichlorotrifluoroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Methylene chloride	EPA 8260B in Water	ND	ug/L	0.50	1.6
Carbon disulfide	EPA 8260B in Water	ND	ug/L	0.30	0.95
trans-1,2-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
Methyl tert-Butyl ether (MTBE)	EPA 8260B in Water	ND	ug/L	0.30	0.95

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/08/17 Analysis Date	07/08/17				
1,1-Dichloroethane	EPA 8260B in Water	ND	ug/L	0.30	0.95
Hexane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Isopropyl Ether	EPA 8260B in Water	ND	ug/L	0.25	0.80
Methyl Ethyl Ketone (MEK)	EPA 8260B in Water	ND	ug/L	3.0	9.5
cis-1,2-Dichloroethene	EPA 8260B in Water	ND	ug/L	0.30	0.95
2,2-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chloroform	EPA 8260B in Water	ND	ug/L	0.25	0.80
Bromochloromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Tetrahydrofuran	EPA 8260B in Water	ND	ug/L	2.0	6.4
1,1,1-Trichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,1-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Carbon tetrachloride	EPA 8260B in Water	ND	ug/L	0.50	1.6
Benzene	EPA 8260B in Water	ND	ug/L	0.30	0.95
Trichloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Dibromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Bromodichloromethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
cis-1,3-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.30	0.95
4-Methyl-2-pentanone (MIBK)	EPA 8260B in Water	ND	ug/L	2.0	6.4
Toluene	EPA 8260B in Water	ND	ug/L	0.25	0.80
trans-1,3-Dichloropropene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,1,2-Trichloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,3-Dichloropropane	EPA 8260B in Water	ND	ug/L	0.30	0.95
Chlorodibromomethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Tetrachloroethene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2-Dibromoethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Chlorobenzene	EPA 8260B in Water	ND	ug/L	0.25	0.80
1,1,1,2-Tetrachloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6

Wisconsin State Laboratory of Hygiene
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kuzycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/08/17 Analysis Date 07/08/17					
Ethyl Benzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
m/p-xylene	EPA 8260B in Water	ND	ug/L	0.40	1.3
Styrene	EPA 8260B in Water	ND	ug/L	0.25	0.80
o-Xylene	EPA 8260B in Water	ND	ug/L	0.30	0.95
Bromoform	EPA 8260B in Water	ND	ug/L	1.0	3.2
1,1,2,2-Tetrachloroethane	EPA 8260B in Water	ND	ug/L	0.50	1.6
Isopropylbenzene (Cumene)	EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2,3-Trichloropropane	EPA 8260B in Water	ND	ug/L	1.0	3.2
Bromobenzene	EPA 8260B in Water	ND	ug/L	0.50	1.6
n-Propylbenzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
2-Chlorotoluene	EPA 8260B in Water	ND	ug/L	0.30	0.95
4-Chlorotoluene	EPA 8260B in Water	ND	ug/L	0.30	0.95
1,3,5-Trimethylbenzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
tert-Butylbenzene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2,4-Trimethylbenzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
sec-Butylbenzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
1,3-Dichlorobenzene	EPA 8260B in Water	ND	ug/L	0.25	0.80
1,4-Dichlorobenzene	EPA 8260B in Water	ND	ug/L	0.25	0.80
4-Isopropyltoluene	EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2-Dichlorobenzene	EPA 8260B in Water	ND	ug/L	0.25	0.80
n-Butylbenzene	EPA 8260B in Water	ND	ug/L	0.20	0.64
1,2-Dibromo-3-chloropropane	EPA 8260B in Water	ND	ug/L	1.0	3.2
1,2,4-Trichlorobenzene	EPA 8260B in Water	ND	ug/L	0.50	1.6
Naphthalene	EPA 8260B in Water	ND	ug/L	0.30	0.95
Hexachlorobutadiene	EPA 8260B in Water	ND	ug/L	0.50	1.6
1,2,3-Trichlorobenzene	EPA 8260B in Water	ND	ug/L	0.50	1.6

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Laboratory Report

D.F. Kuritz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID:E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 325902001

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.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.
This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.
The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Previous Reports

This sample was previously reported under the following report ID(s): 4257509

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

Attachment C – Sump Water Sample Laboratory Report for Hub Pub

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53718
Phone : 800-442-4618 Fax Phone : 608-224-6213

Sample:

Field #:	HUB PUB SUMP	Sample #:	325897001
Collection Start:	06/05/2017 12:00 pm	Collection End:	07/05/2017 12:15 pm
Collected by:	JOHN MASON	Waterbody/Outfall Id:	
ID #:		ID Point #:	
County:		Account #:	RR051
Sample Location:	15672 STATE HWY 80 RICHLAND CENTER, WI 53581		
Sample Description:	WATER SAMPLE FROM THE SUMP IN THE BASEMENT OF THE HUB PUB		
Sample Source:	Other	Sample Depth:	
Date Reported:	07/11/2017	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:			

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
EPA 8260B in Water	07/08/2017	

Code	Description	Result	Units	LOD	Report Limit	LOQ
34030	BENZENE	330	ug/L	30		95

Analysis Method	Analysis Date	Lab Comment
EPA 8260B in Water	07/08/2017	

Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	ND	ug/L	5.0		16
34506	1,1,1-TRICHLOROETHANE	ND	ug/L	5.0		16
34516	1,1,2,2-TETRACHLOROETHANE	ND	ug/L	5.0		16
34511	1,1,2-TRICHLOROETHANE	ND	ug/L	5.0		16
34496	1,1-DICHLOROETHANE	ND	ug/L	3.0		9.5
34501	1,1-DICHLOROETHYLENE	ND	ug/L	5.0		16
77168	1,1-DICHLOROPROPENE	ND	ug/L	5.0		16
77613	1,2,3-TRICHLOROBENZENE	ND	ug/L	5.0		16
77443	1,2,3-TRICHLOROPROPANE	ND	ug/L	10		32
34551	1,2,4-TRICHLOROBENZENE	ND	ug/L	5.0		16
77222	1,2,4-TRIMETHYLBENZENE	47	ug/L	2.0		6.4
38437	1,2-DIBROMO-3-CHLOROPROPANE	ND	ug/L	10		32
77651	1,2-DIBROMOETHANE	ND	ug/L	5.0		16
34536	1,2-DICHLOROBENZENE	ND	ug/L	2.5		8.0

Code	Description	Result	Units	LOD	Report Limit	LOQ
34531	1,2-DICHLOROETHANE	ND	ug/L	5.0		16
77093	1,2-DICHLOROETHYLENE CIS	ND	ug/L	3.0		9.5
34546	1,2-DICHLOROETHYLENE TRANS	ND	ug/L	5.0		16
34541	1,2-DICHLOROPROPANE	ND	ug/L	5.0		16
77226	1,3,5-TRIMETHYLBENZENE	ND	ug/L	2.0		6.4
34566	1,3-DICHLOROBENZENE	ND	ug/L	2.5		8.0
77173	1,3-DICHLOROPROPANE	ND	ug/L	3.0		9.5
34704	1,3-DICHLOROPROPENE-CIS	ND	ug/L	3.0		9.5
34699	1,3-DICHLOROPROPENE-TRANS	ND	ug/L	5.0		16
34571	1,4-DICHLOROBENZENE	ND	ug/L	2.5		8.0
77170	2,2-DICHLOROPROPANE	ND	ug/L	5.0		16
77275	2-CHLOROTOLUENE	ND	ug/L	3.0		9.5
81552	ACETONE	ND	ug/L	30		95
81555	BROMOBENZENE	ND	ug/L	5.0		16
77297	BROMOCHLOROMETHANE	ND	ug/L	5.0		16
32101	BROMODICHLOROMETHANE	ND	ug/L	5.0		16
32104	BROMOFORM	ND	ug/L	10		32
34413	BROMOMETHANE	ND	ug/L	5.0		16
77350	BUTYLBENZENE SEC	2.9	ug/L	2.0		6.4
77353	BUTYLBENZENE TERT	ND	ug/L	5.0		16
77041	CARBON DISULFIDE	ND	ug/L	3.0		9.5
32102	CARBON TETRACHLORIDE	ND	ug/L	5.0		16
34301	CHLOROBENZENE	ND	ug/L	2.5		8.0
34311	CHLOROETHANE	ND	ug/L	5.0		16
32106	CHLOROFORM	ND	ug/L	2.5		8.0
34418	CHLOROMETHANE	ND	ug/L	10		32
32105	DIBROMOCHLOROMETHANE	ND	ug/L	5.0		16
77596	DIBROMOMETHANE	ND	ug/L	5.0		16
34668	DICHLORODIFLUOROMETHANE	ND	ug/L	5.0		16
81577	DIISOPROPYL ETHER	ND	ug/L	2.5		8.0
34371	ETHYLBENZENE	35	ug/L	2.0		6.4
34391	HEXACHLOROBUTADIENE	ND	ug/L	5.0		16
81590	HEXANE, MIXTURE OF ISOMERS	21	ug/L	5.0		16
77223	ISOPROPYLBENZENE	14	ug/L	2.0		6.4

Code	*Description*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
85795	**M/P-XYLENE**	**260**	ug/L	4.0		13
81595	**METHYL ETHYL KETONE**	**ND**	ug/L	30		95
78133	**METHYL ISOBUTYL KETONE (MIBK)**	**ND**	ug/L	20		64
78032	**METHYL TERT BUTYL ETHER**	**ND**	ug/L	3.0		9.5
34423	**METHYLENE CHLORIDE**	**ND**	ug/L	5.0		16
77342	**N-BUTYLBENZENE**	**5.2**	ug/L	2.0		6.4
77224	**N-PROPYLBENZENE**	**38**	ug/L	2.0		6.4
34696	**NAPHTHALENE**	**62**	ug/L	3.0		9.5
77135	**O-XYLENE**	**3.7**	ug/L	3.0		9.5
77277	**P-CHLOROTOLUENE**	**ND**	ug/L	3.0		9.5
77356	**P-ISOPROPYLTOLUENE**	**ND**	ug/L	2.0		6.4
77128	**STYRENE**	**ND**	ug/L	2.5		8.0
34475	**TETRACHLOROETHYLENE**	**ND**	ug/L	5.0		16
81607	**TETRAHYDROFURAN**	**ND**	ug/L	20		64
34010	**TOLUENE**	**11**	ug/L	2.5		8.0
39180	**TRICHLOROETHYLENE**	**ND**	ug/L	5.0		16
34488	**TRICHLOROFLUOROMETHANE**	**ND**	ug/L	5.0		16
81611	**TRICHLOROTRIFLUOROETHANE**	**ND**	ug/L	5.0		16
39175	**VINYL CHLORIDE**	**ND**	ug/L	2.0		6.4

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: **Wisconsin State Laboratory of Hygiene** *DNR ID* **113133790**
2601 Agriculture Dr
Madison **WI** **53718**
Phone : **800-442-4618** *Fax Phone :* **608-224-6213**

Sample:

Field #:	**HUB PUB SUMP**	*Sample #:*	**325904001**
Collection Start:	**06/05/2017 12:00 pm**	*Collection End:*	**07/05/2017 12:15 pm**
Collected by:	**JOHN MASON**	*Waterbody/Outfall Id:*	
ID #:		*ID Point #:*	
County:		*Account #:*	**RR051**
Sample Location:	**15672 STATE HWY 80 RICHLAND CENTER, WI 53581**		
Sample Description:	**WATER SAMPLE FROM THE SUMP IN THE BASEMENT OF THE HUB PUB**		
Sample Source:	**Other**	*Sample Depth:*	
Date Reported:	**07/12/2017**	*Sample Status:*	**COMPLETE**
Project No:		*Sample Reason:*	
Comment:			

Analyses and Results:

Analysis Method	*Analysis Date*	*Lab Comment*
SW846 Method 8270D PAH in W	**07/10/2017**	

Code	*Description*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
78820	**2,7-DIMETHYL NAPTHALENE**	**0.52**	ug/L	0.11		0.34
34205	**ACENAPHTHENE**	**0.11**	ug/L	0.11		0.34
34200	**ACENAPHTHYLENE**	**0.0**	ug/L	0.11		0.34
34220	**ANTHRACENE**	**0.26**	ug/L	0.11		0.34
34526	**BENZO (A) ANTHRACENE**	**0.75**	ug/L	0.15		0.47
	Comment: The internal standard QC limit is exceeded.					
34247	**BENZO (A) PYRENE**	**0.47**	ug/L	0.15		0.47
34230	**BENZO (B) FLUORANTHENE**	**0.51**	ug/L	0.15		0.47
34521	**BENZO (G H I) PERLYENE**	**0.42**	ug/L	0.15		0.47
34242	**BENZO (K) FLUORANTHENE**	**0.46**	ug/L	0.15		0.47
77802	**BENZO(E)PYRENE**	**0.26**	ug/L	0.15		0.47
34320	**CHRYSENE**	**0.62**	ug/L	0.15		0.47
	Comment: The internal standard QC limit is exceeded.					
98306	**CORONENE**	**0.0**	ug/L	0.59		1.8
34556	**DIBENZO (A H) ANTHRACENE**	**0.0**	ug/L	0.25		0.76
34376	**FLUORANTHENE**	**1.3**	ug/L	0.11		0.34
34381	**FLUORENE**	**0.20**	ug/L	0.11		0.34
34403	**INDENO (1,2,3-C D) PYRENE**	**0.56**	ug/L	0.25		0.76
34461	**PHENANTHRENE**	**0.64**	ug/L	0.11		0.34
34469	**PYRENE**	**0.94**	ug/L	0.11		0.34

Code	*Description*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
	Comment: The internal standard QC limit is exceeded.					
85787	**RETENE**	**0.0**	ug/L	0.11		0.34
	Comment: The internal standard QC limit is exceeded.					

Analysis Method	*Analysis Date*	*Lab Comment*
SW846 Method 8270D PAH in W	**07/11/2017**	

Code	*Description*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
77418	**1-METHYLNAPHTHALENE**	**5.4**	ug/L	1.1		3.4
77416	**2-METHYLNAPHTHALENE**	**6.6**	ug/L	1.1		3.4
34696	**NAPHTHALENE**	**25**	ug/L	1.1		3.4