SCS ENGINEERS

June 2, 2016 File No. 25213180.15

Mr. Shawn Wenzel Wisconsin Department of Natural Resources 2514 Morse Street Janesville, WI 53545-0249

Subject:

Summary of Vapor Intrusion Assessment Sampling

Doug's Standard Site, Clinton, Wisconsin

BRRTS #02-54-564095

Dear Mr. Wenzel:

SCS Engineers (SCS) is providing the following summary of a vapor intrusion assessment performed for the residences at 327 and 331 East Street, Clinton, Wisconsin (**Figure 1**). The work was performed under the Wisconsin Department of Natural Resources (WDNR) Vapor Intrusion Zone Contract (VIZC).

Assessment findings indicate that volatile organic compounds are not present at 327 and 331 East Street at concentrations in excess of residential indoor vapor action levels (VALs) or subslab vapor risk screening levels (VRSLs).

METHODS

SCS performed sub-slab, indoor air, and outdoor (background) air sampling work on May 10, 2016 and May 11, 2016. Indoor air and sub-slab samples were collected for each of the above-noted properties. The outdoor air (background) sample was collected from the 327 East Street property.

It was determined on the day of sampling that the 331 East Street residence does not have a basement. A utility crawl space is present under the home, but it was not accessible for sampling. So, an indoor air sample was collected from the first floor and a sub-slab sample was collected through the garage floor.

SCS transported all of the samples to the Wisconsin State Laboratory of Hygiene in Madison, Wisconsin, for volatile organic compound (VOC) analysis via method TO-15. Samples were analyzed for tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.



Mr. Shawn Wenzel June 2, 2016 Page 2

FINDINGS

Photos from each sample location are included in **Attachment A**. Field and laboratory chain of custody forms and sketches of sample locations are included in **Attachment B**. Laboratory reports are included in **Attachment C** and summarized in **Table 1** and **Table 2**.

VOCs were not detected in any of the vapor assessment samples.

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

Sincerely,

Robert Langdon

Senior Project Manager
SCS ENGINEERS

Jaclyn DeBruyne Associate Scientist

SCS ENGINEERS

JD/REL/jsn/SLC

Attachments: Table 1 – Sub-Slab Vapor Analytical Results Summary

Table 2 – Indoor Air and Background Air Analytical Results Summary

Figure 1 – Vapor Assessment Sampling Locations

Attachment A - Photos

Attachment B – Field and Laboratory Chain of Custody Forms

Attachment C – Laboratory Reports

I:\25213180\25213180.15\Reports\160602 Doug's Standard Vapor Sampling Report.doc

TABLES

- 1
- Sub-Slab Vapor Analytical Results Summary Indoor Air and Background Air Analytical Results Summary 2

Table 1. Sub-Slab Vapor Analytical Results Summary WDNR VIZC Doug's Standard, Clinton, Wisconsin / SCS Engineers Project #25213180.15

(Results are in ppbV)

Sample	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
327 Sub-Slab	5/11/2016	<0.085	<0.085	<0.085	<0.085	<0.085
331 Sub-Slab	5/11/2016	<0.085	<0.085	<0.085	<0.085	<0.085
Vapor Risk Screenin	ng Level (Residential)	210	13	NE	NE	22

Abbreviations:

ppbV = parts per billion by volume

TCE = trichloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylene

NE = not established

PCE = tetrachloroethylene

trans-1,2-DCE = trans-1,2-dichloroethylene

Notes:

- 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 Indoor Air Vapor Action Levels divided by Attenuation Factor of 0.03 for residential buildings.
- 3. Indoor Air Vapor Action Levels and Attenuation Factor from Wisconsin Department of Natural Resources Quick Look-up Table dated December 2015.
- 4. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

 Created by:
 JD
 Date: 6/1/2016

 Last revision by:
 JD
 Date: 6/1/2016

 Checked by:
 REL
 Date: 6/1/2016

l:\25213180\25213180.15\Data\Tables\[25213180.15_Table 1_Sub-Slab Vapor.xls]Sub-Slab Results

Table 2. Indoor Air and Background Air Analytical Results Summary WDNR VIZC Doug's Standard, Clinton, Wisconsin / SCS Engineers Project #25213180.15

(Results are in ppbV)

Sample	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
327 Basement	5/11/2016	<0.085	<0.085	<0.085	<0.085	<0.085
331 1st Floor	5/11/2016	<0.085	<0.085	<0.085	<0.085	<0.085
Outdoor Reference Sample	5/11/2016	<0.085	<0.085	<0.085	<0.085	<0.085
Indoor Air Vapor Actic (Residential)	on Level	6.2	0.39	NE	NE	0.65

Abbreviations:

ppbV = parts per billion by volume

PCE = tetrachloroethylene

TCE = trichloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylene

trans-1,2-DCE = trans-1,2-dichloroethylene

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 from Wisconsin Department of Natural Resources Quick Look-Up Table Dated December 2015.
- 3. Bold & underlined values exceed Indoor Air Vapor Action Levels.

Laboratory Notes:

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

Created by:

JD

Date: 6/1/2016

Last revision by: Checked by: JD REL Date: 9/21/2015 Date: 6/1/2016

I:\25213180\25213180.15\Data\Tables\[25213180.15_Table 2_Indoor and Background Air Samples.xls]Results

FIGURE

1 Vapor Assessment Sampling Locations



Figure 1. Vapor Assessment Sampling Locations East Street, Clinton, WI

ATTACHMENT A

Photos

Doug's Standard Vapor Intrusion Zone Contract Project Clinton, Wisconsin SCS Engineers Project #25213180.15



Photo 1: 327 East Street basement indoor air sample – May 10, 2016.



Photo 2: 327 East Street outdoor air background sample – May 10, 2016.

Doug's Standard Vapor Intrusion Zone Contract Project Clinton, Wisconsin SCS Engineers Project #25213180.15

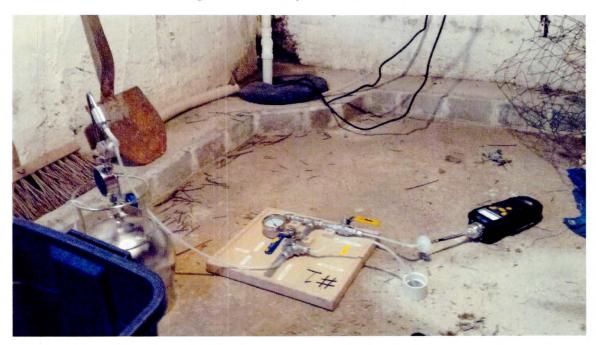


Photo 3: 327 East Street sub-slab sample – May 11, 2016.



Photo 4: 331 East Street first floor indoor air sample – May 11, 2016.

Doug's Standard Vapor Intrusion Zone Contract Project Clinton, Wisconsin SCS Engineers Project #25213180.15



Photo 5: 331 East Street garage sub-slab sample – May 11, 2016.

ATTACHMENT B

Field and Laboratory Chain of Custody Forms

			gineers - Do	aily Field Sh	eet				
Project Name:	Doug's Standar	d - VIZC			en l	1	11.		
Project Number:	25213180.15			_ Date:	5h	0-5/11	116		-
Location:	Clinton, WI		A CONTRACTOR OF THE CONTRACTOR						
SCS Engineers Fie	eld Personnel								
	lame	Role	Time In	On Site	Off Site	Time Out	Break	Total Hours	
1 Store	5-AL	Freid tech	0100	1010	1140	1300	Magazina	4.0	-sholi
2 Steven	51	Field tech	0.630	1000	1300	1500			5/11/16
3									
4									
SCS Engineers Of	fice/Admin Perso	nnel							
	lame	Role	Time In	Time Out	Break	Total Hours			
1				Time Co.		110013			
2	***************************************								
3									
4									
5									
Subcontractor Pers	sonnel	Company:							
	ame	Role	Time In	On Site	Off Site	Time Out	Break	Total Hours	
	ame	Kole	UIIIIC-III	Official	On Sile	Time Cor	ынди	Induis	
2					***************************************				
3									
4							***************************************		
Material Quantitie	s								
(A) (SE(1)) 478	Description		Quantity	Unit					

Other:									
Regulatory or Othe	er Personnel on S	ite							
No.	ame	A	ffiliation	on Milan or Silver of	On Site	Off Site			
1									

3

SCS Engineers - Daily Field Sheet

Project Name:	Doug's Standard - VIZC
Project Number:	25213180.15 Date: 5/10/16 - 5/11/16
Location:	Clinton, WI
Site Description ar	
C	data-
Summary of Activ	
	it, Stordat 327 East 51, Spoke un homeone hert to beneate
	a locate for the subslab probe. Sit is the indeer or sight on
ANT S	States spece Sit up the other Reference Suph in her front wered to protect from rame Stated sight, moved to 331 East St
a 1 : te	is the time.
	1 - home in have doesn't speak English. I said bromet - she said
	sent well not sur if she indestals. Set up con inthe
	er inthe long was a top of entertained codes could up as
1eft 11	h site. 331 looks like its on a sleb.
	site. Collected the 327 Baynet souple. Conved in my geor Collected
the outdoor	- laterna simple. Onlied/installed the 327 Sib-Slas Soling for the
H201-15	int in test = filed, filled pole - I viseled the hole, letters. De wort
the Hadan	1 Sht in tota. Started 5 plu at 1045, and at 1115 a Cloud probe at
- corred c	
	5 331 East St. Clecked home. No besent Found a small
	stoppedor in Alty area , Opens to a shallow could spece,
	12"- 15" deep. Filed who Hoolines, relection lives, detucks
	a spot in front hall closed. Onlied at tend wood subfloor
	er for OK to drill they gazy flow. She nother yes.
Dalles	Installed Sh slab pobe in the garage From Set up for
the Hor	ide sht in tets - march States and at 1715 and at
1245,	Cappel pole. Packed up and last the site

Site Conditions Up	on Departure: 5
	
Field Sheet Comple	Signature: A Amity
Name: Date:	S Ju Ju
	J/11/16

 $\verb|f:\25213180\Forms| [Scenario_1_SCS_Daily_Field_Sheets.xls] | \verb|July 8-DFS| | \\$

SCS Engineers - Vapor Intrusion Contract Equipment and Materials Usage

roject Name: Doug's Standard - VIZC			Date:	5/10-5/11/16			
Project No: 25213180.15							
/ehicles							
Trucks/Vans	Starting Mileage	Ending Mileage	Total Miles	Materials / Exp./Rented Equip.	Quantity		
Van #452 (5/10/16)	31,551	31,700	109		-		
2 Un + 452 (5/11/16)	31,700	31,811	110				
3		<u> </u>					
			L				
		- "-	11-16-5				
Photoionization Detector (PID)		Full Day	Half Day				
Helium Meter (He)		X					
Drill		1					
DTIII	MI WET HIS TO BE A STATE OF THE	- A					
		-	the second secon				
Field Sheet Completed by:			C1	D Anux			
ame: 5.5 -: 12			Signature	of opening			

I:\25213180\Forms\[Scenario_1_SCS_Daily_Field_Sheets.xls]July 17 EQM

		_		
WSLH Air	Canister	Samp	ling	Sheet

WSLH Air Canist	ter Sampling Sheet								Effective D	ate 8/2013
Bill To S	SCS Engineers	Report To	SCS Engine	ers				Phone #	(608) 22	4-2830
3	2830 Dairy Dr.	2830 Dairy Dr.				FAX#				
	Madison, WI 53718	Madison, WI 53718								
							C	ollected By	5.5.	-: th
IR User ID/Horizon #:	RR048							te Sampled		
Project	UTZC - Days Standard	Email	stevesm	ith@sc	sengine	ers.com				
P.O. #	# 25 213180.15	Address(s)	Rlangdo	on@scs	engine	ers.com	Tracer	used (Y/N)	こし	
						,	Wh	nich Tracer?		
Sample Type:	AR - Outdoor Air						SPECIAL INS	TRUCTIONS:		
	Al - Indoor Air							TO15 Full Li	st	
	SB-Sub-Slab						×	TO15 Dry Cl	eaner/Shor	t List
LAB USE ONLY										
		SAMPLE							(619)	Foundation
WSLH SAMPLE		TYPE	SAMPLE	TIME	TIME	INITIAL	FINAL	CANISTER	PID	SAMPLER
#	CUSTOMER FIELD #	(AR,AI,SB)	DATE	ON	OFF	PRESSURE	PRESSURE	NUMBER	READING	NUMBER
	327 Basement	AI	5/10-5/11/16	1020	1020	-20	-2.5	ESS-6048	0-0	2231
	Outdoor Referra Sunply	AR		1027	1027	-27	-2:5	ESS_ 643	0-0	5343
	331 154 Floor	AI	+	1132	1132	-27	-0.5	ESS-6057	200	5478
	327 SUS Slab	5 B	5/11/16	1045	1115	-25	-2	ES 5-6056	732	5346
	331 SA 565	5,6	511/16	1512	1245	-24	-2	DH-004	365	1494
				-						
		-		-						
									1	

chain of custody: Relinquished

Date: 5/11/16 Received: 19/12

PROJECT: Doug's Standard - VIZC	SAMPLEID: Baseront	TYPE (Circ	tle One)*: SB AI AR
PROJECT #: 25213180.15	SAMPLE INTAKE HEIGHT:	4.5	NA for SB
LOCATION: CN-hu wi	APPROX PURGE VOLUME:	NA	NA for Al and AR
SAMPLER: Steve Smith	APPROX SAMPLING DEPTH:	NA	NA for Al and AR
Sub-Slab Sample Kit #:			NA for Al and AR
Sub-Slab Sample Manifold #:			NA for Al and AR

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
5/10/16	1020	-79	55.4	94	15.0	29.88	0.0
5/11/16	1020	-2.5	57.2	94	5.8	30.05	The state of the s

^	c	
Summa	Canister	Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	(6L)	Test Passed:	Yes	No
Canister ID#	55-6048				
Flow Controller ID#	2231				

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

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PROJECT: Doug's Standard - VIZC	SAMPLE ID: parene Suple	TYPE (Circl	e One)*: SB AI AR
PROJECT #: 25213180.15	SAMPLE INTAKE HEIGHT:	3,5	NA for SB
LOCATION: Claster, wT	APPROX PURGE VOLUME:	M	NA for AI and AR
SAMPLER: Steve Smith	APPROX SAMPLING DEPTH:	M	NA for Al and AR
Sub-Slab Sample Kit #:			NA for Al and AR
Sub-Slab Sample Manifold #:			NA for Al and AR
PID#: PERAE 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)
5/10/16	1027	-27	55.4	94	15.0	29-88	0.0
5/11/16	1027	-2.5	57.2	94	5.8	30.05	-

Summa Canister Information:

Sub-Slab Water Dam Test:

Canister Size:	1L	(6L)	Test Passed:	Yes	No
Canister ID#	ESS-6043				
Flow Controller ID#	5343				

Genera	Notes	Observations:
--------	-------	---------------

Abbreviations:

NA = Not Applicable SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

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PROJECT: D	oug's Stand	ard - VIZC	s	AMPLE ID:	331 1	Y Flow TYPE (Circle	One)*: SBAI)AR
PROJECT #:	PROJECT #: 25213180.15			AMPLE INTA	KE HEIGHT:	6 `	NA for SB
LOCATION:	Clint	n wit	A	PPROX PUR	GE VOLUME:		NA for AI and AR
SAMPLER: S	teve Smith		Δ.	PPROX SAN	IPLING DEPTH	: (NA for Al and AR
Sub-Slab Samp Kit #:	ole (NA for Al and AR
Sub-Slab Samp Manifold #:		A					NA for AI and AR
PID #:	PPBRAL	E PIO					
Instrument/Wed							
		Canister Vacuum	Temp	Relative Humidity	Air Speed	Barometric Pressure	PID Reading
Date	Time	(" of Hg)	(°F)	(%)	(mph)	(" of Hg)	(ppm/ppb)
5/10/16	1132	-27	53.6	100	13.8	29.88	200
5/11/16		-0.5	60.8	88	5-8	30.04	and the committee or constitution of
Summa Caniste	r Informatior	1 :		Sub	-Slab Water D	Dam Test:	
Canister Size:		11.	(6L)) Te	st Passed:	Yes	No
Canister ID#	ES	1-6037					
Flow Controller	r ID#	547	8			4	
General Notes/	['] Observation	ns:					
			Maria Ma				

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

 $C: \label{local-condition} \mbox{C:$$ Users $$\setminus 3550 \mbox{lmh} \mbox{Desktop} \mbox{Vapor Assessment Sample Collection Log (2).doc} \label{local-condition} }$

SAMPLE ID: 515 56b	TYPE (Circ	cle One)*: SB AI AR
SAMPLE INTAKE HEIGHT:		NA) for SB
APPROX PURGE VOLUME:	3.5 L	NA for Al and AR
APPROX SAMPLING DEPTH:	~ 10"	NA for Al and AR
		NA for AI and AR
		NA for Al and AR
	SAMPLE ID: 515 516 b SAMPLE INTAKE HEIGHT: APPROX PURGE VOLUME:	SAMPLE ID: 515 566 TYPE (Circ SAMPLE INTAKE HEIGHT: APPROX PURGE VOLUME: 3.5 L

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
5/ulil	1045	-25	60.8	88	5.8	30.0H	732
5/11/16	1115	-2	60.8	88	5.8	30.04	-

Summa	Canister	Info	rmation	1:

Sub-Slab Water Dam Test:

Canister Size:	11.	6L	Test Passed:	Yes	No
Canister ID#	ESS-60	56			
Flow Controller ID#	5346	5			
General Notes/Observo					
Bekgand	ar = c	ppb.			
		Market Village Brown Control of C			

Abbreviations:

NA = Not Applicable

SB = Sub-Slab

Al = Indoor Air

AR = Outdoor Air

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PROJECT:	Doug's Stand	ard - VIZC	SA	MPLE ID:	331 51	b TYPE (Circle	e One)*: (\$B) AI AR	
PROJECT #:	25213180	0.15	SA	SAMPLE INTAKE HEIGHT: NA for				
LOCATION:	Clint	w, wI	AP	PROX PURC	SE VOLUME:	3.5 L	NA for AI and AR	
	Steve Smith		AP	PROX SAMI	PLING DEPTH	10"	NA for AI and AR	
Sub-Slab Sam Kit #:	9						NA for AI and AR	
Sub-Slab Sam Manifold #:	ple						NA for AI and AR	
PID #:	PBRAL	E PID						
Instrument/We Date			Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading	
5/0/16	1215	-24	62-6	94	4,6	30.04	365	
5/11/16	1245	-2	644	88	4.6	30.04		
Summa Caniste	er Information	n:		Sub-	Slab Water D	oam Test:		
Canister Size:		1L	(6L)	Tes	it Passed:	Yes	No	
Canister ID#) H-004	\					
Flow Controlle	er ID#	1494						
General Notes,		ns:	0 11	u				
Abbreviations: NA = Not Appl AI = Indoor Air		SB = Sub-Slab AR = Outdoor						

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PROJECT NO .: 25213180-15 SAMPLE LOCATION/ID: Doug's Standard DATE: 5/11/16 327 East St. SAMPLE LOCATIONS SKETCH: . Indoor As singly location Gazzk - 505 51-5 Probe 111) East St.

NOT TO SCALE

COR

East St. Loss Loss Should be a second and	PROJECT NO.: 25213/80-15 SAMPLE LOCATION/ID: DATE: 5 11 14
Trades to Localing De Localing Report Localing	SAMPLE LOCATIONS SKETCH: 331 East St. — Garage
Hox Gwaze	East St
	Hose Gwage

ATTACHMENT C

Laboratory Reports



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: 253899001

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID: 12858

Field #:

327 BASEMENT

Project No: VIZC-DOUG'S STANDARD

Collection End: 5/11/2016 10:20:00 AM

Collection Start: 5/10/16 1020 Collected By: S. SMITH Date Received: 5/11/2016 Date Reported: 5/18/2016

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	05/17/16	Analysis Date	05/17/16					
Vinyl chlor	ide		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-Dic	hloroethene		EPA TO-15	ND	ppbv	0.085	0.28	
Trichloroet	hene		EPA TO-15	ND	ppbv	0.085	0.28	
Tetrachlor	pethene		EPA TO-15	ND	ppbv	0.085	0.28	



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: 253899001

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.

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: Al Spallato, Lab Manager, 608-224-6269

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

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



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: 253899002

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID:

12858

Field #:

OUTDOOR REFERENCE SAMPLE

Project No: VIZC-DOUG'S STANDARD

Collection End: 5/11/2016 10:27:00 AM

Collection Start: 05/10/16 1027 Collected By: S. SMITH

Date Received: 5/11/2016 Date Reported: 5/18/2016

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	
F	Prep Date 05/17/16	Analysis Date	05/17/16					
	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	



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: 253899002

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.

Responsible Party

Report ID: 3100921

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: Al Spallato, Lab Manager, 608-224-6269

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

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Page 4 of 10

Report Rev: 0000.25.2.WSLH.0



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: 253899003

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID:

12858

Field #:

331 1ST FLOOR

Project No: VIZC-DOUG'S STANDARD

Collection End: 5/11/2016 11:32:00 AM

Collection Start: 05/10/16 1132 Collected By: S. SMITH

Date Received: 5/11/2016 Date Reported: 5/18/2016

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 05/17/16	Analysis Date	05/17/16					
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	



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: 253899003

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

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

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200

Report ID: 3100921 Page 6 of 10 Report Rev: 0000 25.2 WSLH.0



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: 253899004

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID:

12858

Field #:

327 SUB SLAB

Project No: VIZC-DOUG'S STANDARD

Collection End: 5/11/2016 11:15:00 AM

Collection Start: 05/11/16 1045 Collected By: S. SMITH

Date Received: 5/11/2016 Date Reported: 5/18/2016

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 05/17	/16 Analysis Date	05/17/16					
Vinyl chloride		EPA TO-15	ND	ppbv	0.085	0.28	
trans-1,2-Dichloro	ethene	EPA TO-15	ND	ppbv	0.085	0.28	
cis-1,2-Dichloroet	nene	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	



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: 253899004

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

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

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



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: 253899005

Report To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718 Invoice To:

ROBERT LANGDON SCS ENGINEERS 2830 DAIRY DR MADISON, WI 53718

Customer ID:

12858

Field #: Project No: 331 SUB SLAB

VIZC-DOUG'S STANDARD

Collection End: 5/11/2016 12:45:00 PM

Collection Start: 05/11/16 1215 Collected By: S. SMITH

Date Received: 5/11/2016 Date Reported: 5/18/2016

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 05/17/16	Analysis Date	05/17/16					
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	



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: 253899005

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

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