

December 13, 2016

Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2984 Shawano Avenue
P.O. Box 10448
Green Bay, Wisconsin 54307-0448

RECEIVED
DEC 19 2016
WI DNR - GREEN BAY

Attn: Tauren R. Beggs

RE: WDNR BRRTS No. 02-36-544383
Status Report – November 2016 Soil Gas and Groundwater Monitoring Results
United Laundries and Dry Cleaners, Inc. 623 Reed Avenue, Manitowoc, Wisconsin

Dear Mr. Beggs:

Shannon & Wilson prepared this Report to summarize November 2016 soil gas and groundwater results for the United Laundries and Dry Cleaners, Inc. (United) facility. Site activities were completed in accordance with Shannon & Wilson's October 10, 2016 change order request. The change order was prepared in response to WDNR's review of Wisconsin Department of Natural Resources (WDNR) Case Closure Denial letter dated August 11th, 2016. The scope of work for the change order includes the following tasks:

- Additional groundwater sample collection at MW-10;
- Additional soil sample collection to define the extent of soil contamination;
- VE confirmation soil and soil gas sample collection;
- Operation and Maintenance Plan preparation; and
- Resubmittal of Case Closure documents.

November 2016 Groundwater and Soil Gas Sample Collection

Additional groundwater and soil gas samples were collected on November 17, 2016. A groundwater sample collected at MW-10 was submitted to Pace Analytical and analyzed for VOCs by Method 8260. Historic groundwater monitoring results are summarized in Table 1 and the laboratory report is included in Appendix A.

Concurrent with MW-10 sample collection, Shannon & Wilson collected sub-floor soil gas samples at the United and Piggly Wiggly buildings. In preparation for soil gas sampling, all

three SSDS's were turned off on November 10th, 2016. Soil gas samples were collected from sub-floor vapor probes VP-1, VP-2, and VP-3 at the United Dry Cleaner building and at VP-4 at the Piggly Wiggly building. Flexible tubing was used to connect each probe to 6-liter Summa canisters provided by the laboratory. Summa canisters were equipped with a flow controller calibrated by the laboratory; each canister took 45 minutes to fill. All air samples were analyzed for chlorinated VOCs (cis-1,2-dichloroethene, trans 1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride) using EPA Method TO-15 by Pace Analytical Services of Minneapolis, Minnesota. Vapor probe and indoor results are summarized in Tables 2 and 3. Laboratory reports for November 2016 soil gas samples are included in Appendix B.

November 2016 Groundwater and Soil Gas Sample Results

Tetrachloroethene (PCE) was detected in the November 2016 MW-10 sample at a low concentration (3.8 ug/L). As with previous MW-10 samples, PCE was detected below the 5 mg/l Enforcement Standard (ES), but above the 0.5 ug/l Preventive Action Limit (PAL).

PCE was detected at low concentration in all November 2016 soil gas samples. PCE concentration ranged from 21.6 ppbv at VP-4 to 167 ppbV at VP-2. TCE was also detected at a low concentration (0.095 ppbv) at VP-4.

As shown on Table 2, PCE exceeded the 210 ppbV Vapor Risk Screening Level (VRSL) for residential buildings at VP-2, VP-3, and VP-4 in April 2011 prior to installation of the interim response SSDS's. After the SSDS's were installed in December 2011, concentrations declined. PCE exceeded the VRSL at VP-2 in March 2012 samples, but all VOCs were detected below the VRSLs in the remaining March 2012 samples, and in August 2012 and November 2016 samples. As shown on Table 3, PCE exceeded the 900 ppbV VRSL for small commercial buildings at VP-2, VP-3, and VP-4 in April 2011. All VOCs were detected below the VRSL in March 2012, August 2012, and November 2016 samples.

Recommendations

Shannon & Wilson recommends collection of post remediation soil samples concurrent with well abandonment. We anticipate that well abandonment and soil sample collection will be completed within the next few weeks. Soil sample results and well abandonment documentation will be submitted with the Revised Case Closure Request. Because PCE at MW-10 remains below the ES, and no other groundwater samples were collected we see no need for resubmittal of the off-site notification letters. Property ownership remains the same since off-site letters were sent in May 2016.

Ms. Tauren R. Beggs
Wisconsin Department of Natural Resources
December 13, 2016
Page 3 of 3

SHANNON & WILSON, INC.

Following soil sample collection, Shannon & Wilson would also like to discuss continuing obligations for the United Dry Cleaner property. All three SSDS's were installed as an interim response in December 2011. Because November 2016 samples were collected while the SSDS system were not in operation, results indicate soil gas is below the VRS� for both residential and small commercial buildings. After removing a significant volume of contaminated soil, operating an SVE, and after operating the SSDS's for five years we question the need for continued operation of the SSDS's as a condition of closure.

If you have any questions please call me at (608) 442-5223.

Sincerely,

SHANNON & WILSON, INC.



Mark S. McColloch, P.G.
Senior Associate

MSM:DPT/msm

cc: Steve Hamann, Zenith Properties LLC

United_Dec_2016_Status_Report

Tables

Table 1 (Page 1 of 2)
Historic Groundwater Sample Results
United Laundries and Dry Cleaners, Inc., 623 Reed Avenue, Manitowoc, Wisconsin

Sample Date / Analyte	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	PAL	ES
<i>January 25, 2006</i>												
Tetrachloroethene (PCE)	180	--	--	--	--	--	--	--	--	--	0.5	5
<i>March 19, 2010</i>												
Tetrachloroethene (PCE)	120	41	17	--	--	--	--	--	--	--	0.5	5
1,1,1 Trichloroethane	<1.8	<0.50>	<0.37>	--	--	--	--	--	--	--	40	200
<i>October 5, 2010</i>												
Tetrachloroethene (PCE)	58.4	62.1	11.8(12.0)	5.2	41.1	--	--	--	--	--	0.5	5
Trichloroethene (TCE)	0.67 J	<0.48	<0.48	<0.48	<0.48	--	--	--	--	--	0.5	5
1,1,1 Trichloroethane	<0.90	1.7	<0.90	<0.90	<0.90	--	--	--	--	--	40	200
<i>April 27, 2011</i>												
Tetrachloroethene (PCE)	87.4(83.1)	71.0	9.9	3.1	40.5	--	--	--	--	--	0.5	5
Trichloroethene (TCE)	0.93 J	<0.48	<0.48	<0.48	<0.48	--	--	--	--	--	0.5	5
1,1,1 Trichloroethane	<0.90	1.3	<0.90	<0.90	<0.90	--	--	--	--	--	40	200
<i>December 21, 2011</i>												
Tetrachloroethene (PCE)	--	--	--	--	--	32.1(30.6)	23.9	--	--	--	0.5	5
Methylene Chloride	--	--	--	--	--	0.46	<0.43	--	--	--	0.5	5
<i>November 14, 2012</i>												
Tetrachloroethene (PCE)	--	--	--	--	--	--	--	13.6(14.2)	<0.45	--	0.5	5
<i>November 19, 2013</i>												
Tetrachloroethene (PCE)	72.7	35.2	8.4	1.1	35.1(31.5)	28.9	15.5	9.6	<0.45	--	0.5	5
Trichloroethene (TCE)	0.97 J	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	--	0.5	5
1,1,1 Trichloroethane	0.59 J	0.59 J	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	--	40	200
<i>February 11, 2014</i>												
Tetrachloroethene (PCE)	30.7(31.5)	36.7	--	<0.47	--	34.6	26.0	8.2	--	--	0.5	5
Trichloroethene (TCE)	<0.36	<0.36	--	<0.36	--	<0.36	<0.36	<0.36	--	--	0.5	5
1,1,1 Trichloroethane	<0.44	0.55 J	--	<0.44	--	<0.44	<0.44	<0.44	--	--	40	200

Table 1 (Page 2 of 2)
Historic Groundwater Sample Results
United Laundries and Dry Cleaners, Inc., 623 Reed Avenue, Manitowoc, Wisconsin

Sample Date / Analyte	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	PAL	ES
<i>May 14, 2014</i>												
Tetrachloroethene (PCE)	27.0(27.3)	15.9	5.7	0.96	27.4	24.7	10.3	3.7	<0.45	--	0.5	5
<i>August 19, 2014</i>												
Tetrachloroethene (PCE)	25.5	10.8	4.8	0.69 J	18.7(17.9)	22.7	21.4	2.1	<0.45	--	0.5	5
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	--	60	600
<i>November 25, 2014</i>												
Tetrachloroethene (PCE)	19.5	9.2	6.8	<0.50	10.3	36.3	21.4(20.8)	3.5	<0.50	--	0.5	5
<i>February 25, 2015</i>												
Tetrachloroethene (PCE)	20.3	8.4	7.1	<0.50	11.1	30.1(30.1)	22.7	3.0	--	--	0.5	5
<i>May 14, 2015</i>												
Tetrachloroethene (PCE)	16.1	18.6	7.4	<0.50	9.9	33.9	22.4(21.4)	2.8	<0.50	--	0.5	5
<i>August 31, 2015</i>												
Tetrachloroethene (PCE)	12.6(12.9)	9.0	6.8	<0.50	9.1	29.8	22.1	2.6	<0.50	--	0.5	5
Methyl-tert-butyl ether	0.18 J	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	--	12	60'
<i>November 5, 2015</i>												
Tetrachloroethene (PCE)	9.1	12.6	5.7	<0.50	6.8	33.6	17.4(17.2)	2.2	<0.50	2.8	0.5	5
1,1,1 Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83 J	40	200
Methyl-tert-butyl ether	0.18 J	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	12	60'
<i>February 17, 2016</i>												
Tetrachloroethene (PCE)	11.1(9.7)	8.1	5.4	<0.50	5.6	37.2	18.0	1.9	<0.50	3.5	0.5	5
Methyl-tert-butyl ether	<0.17(0.29J)	<0.17	0.23 J	<0.17	0.26 J	<0.17	<0.17	<0.17	<0.17	0.29 J	12	60
<i>November 17, 2016</i>												
Tetrachloroethene (PCE)	--	--	--	--	--	--	--	--	--	3.8	0.5	5
1,1,1 Trichloroethane	--	--	--	--	--	--	--	--	--	0.90 J	40	200
Methyl-tert-butyl ether	--	--	--	--	--	--	--	--	--	0.21 J	12	60

PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.

ES - Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

< - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Duplicate sample results are shown in parenthesis.

All concentrations are reported in µg/l.

Concentrations exceeding the PAL are in red italics.

Concentrations exceeding the ES have been shaded yellow.

Table 2
Results for Soil Gas Probes – Residential Building Vapor Risk Screening Levels
Piggly Wiggly and United Dry Cleaners Buildings
United Laundries and Dry Cleaners, Inc., 623 Reed Avenue, Manitowoc, Wisconsin

Constituents	Vapor Risk Screening Level ⁽¹⁾	Vapor Action Level ⁽²⁾	Attenuation Factor ⁽³⁾	Soil Gas Probe (Sub-Floor)				
				Sample Location	VP-1	VP-2	FD-1(VP-2)	VP-3
Sample Location				VP-1	VP-2	FD-1(VP-2)	VP-3	VP-4
Sample Date				Apr-11	Apr-11	Apr-11	Apr-11	Apr-11
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,70	<686
trans-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,70	<686
Tetrachloroethene (PCE)	210	6.2	0.03	87.7	1,710	1,270	763,00	2,700
Trichloroethene (TCE)	13	0.39	0.03	<6.7	<214	<172	<13,70	<686
Vinyl Chloride	22	0.65	0.03	<6.7	<214	<172	<13,70	<686
Sample Location				VP-1	VP-2	VP-2(FD-1)	VP-3	VP-4
Sample Date				Mar-12	Mar-12	Mar-12	Mar-	Mar-12
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
trans-1,2-Dichloroethene	--	NA	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Tetrachloroethene (PCE)	210	6.2	0.03	184	318	268	70.5	63.8
Trichloroethene (TCE)	13	0.39	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Vinyl Chloride	22	0.65	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Sample Location				VP-1	VP-2	VP-2/	VP-3	VP-4
Sample Date				Aug-12	Aug-12	Aug-12	Aug-12	Aug-12
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<3.5	--	--	--	--
trans-1,2-Dichloroethene	--	NA	0.03	<3.5	--	--	--	--
Tetrachloroethene (PCE)	210	6.2	0.03	140	--	--	--	--
Trichloroethene (TCE)	13	0.39	0.03	<3.5	--	--	--	--
Vinyl Chloride	22	0.65	0.03	<3.5	--	--	--	--
Sample Location				VP-1	VP-2	--	VP-3	VP-4
Sample Date				Nov-16	Nov-16	Nov-16	Nov-16	Nov-16
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<0.082	<0.082	--	<0.082	<0.082
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	--	<0.13	<0.13
Tetrachloroethene (PCE)	210	6.2	0.03	25.4	167	--	27.3	21.6
Trichloroethene (TCE)	13	0.39	0.03	<0.068	<0.068	--	0.2	0.095
Vinyl Chloride	22	0.65	0.03	<0.1	<0.1	--	<0.1	<0.1

Notes:

Vapor Risk Screening Level (VRSL) = Vapor Action Level (VAL) ÷ Attenuation Factor (AF) per Wisconsin Department of Natural Resources Quick Look-Up Table, dated May 2016.

Vapor Action Level (VAL) for Residential Land Use per Wisconsin Department of Natural Resources Quick Look-Up Table, dated May 2016.

Attenuation Factor (AF) = 0.03 for sub-floor vapor for Residential/Small Commercial Buildings per Wisconsin Department of Natural Resources Quick Look-Up Table, dated June 2015

Concentrations exceeding the VRSL are shown in bold.

< Below reporting limit

J Estimated concentration at or above the LOD and below the LQD.

All units are reported in parts per billion by volume (ppbv)

FD-1 -Field duplicate

Table 3
Results for Soil Gas Probes – Small Commercial Building Vapor Risk Screening Levels
Piggly Wiggly and United Dry Cleaners Buildings
United Laundries and Dry Cleaners, Inc., 623 Reed Avenue, Manitowoc, Wisconsin

Constituents	Vapor Risk Screening Level ⁽¹⁾	Vapor Action Level ⁽²⁾	Attenuation Factor ⁽³⁾	Soil Gas Probe (Sub-Floor)				
				Sample Location	VP-1	VP-2	FD-1(VP-2)	VP-3
Sample Location				VP-1	VP-2	FD-1(VP-2)	VP-3	VP-4
Sample Date				Apr-11	Apr-11	Apr-11	Apr-11	Apr-11
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,70	<686
trans-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,70	<686
Tetrachloroethene (PCE)	900	27	0.03	87.7	1,710	1,270	763,00	2,700
Trichloroethene (TCE)	1.6	53	0.03	<6.7	<214	<172	<13,70	<686
Vinyl Chloride	11	370	0.03	<6.7	<214	<172	<13,70	<686
Sample Location				VP-1	VP-2	VP-2(FD-1)	VP-3	VP-4
Sample Date				Mar-12	Mar-12	Mar-12	Mar-	Mar-12
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
trans-1,2-Dichloroethene	--	NA	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Tetrachloroethene (PCE)	900	27	0.03	184	318	268	70.5	63.8
Trichloroethene (TCE)	1.6	53	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Vinyl Chloride	11	370	0.03	<13.4	<3.4	<13.4	<3.4	<0.67
Sample Location				VP-1	VP-2	VP-2/	VP-3	VP-4
Sample Date				Aug-12	Aug-12	Aug-12	Aug-12	Aug-12
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<3.5	--	--	--	--
trans-1,2-Dichloroethene	--	NA	0.03	<3.5	--	--	--	--
Tetrachloroethene (PCE)	900	27	0.03	140	--	--	--	--
Trichloroethene (TCE)	1.6	53	0.03	<3.5	--	--	--	--
Vinyl Chloride	11	370	0.03	<3.5	--	--	--	--
Sample Location				VP-1	VP-2	--	VP-3	VP-4
Sample Date				Nov-16	Nov-16	Nov-16	Nov-16	Nov-16
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	--	NA	0.03	<0.082	<0.082	--	<0.082	<0.082
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	--	<0.13	<0.13
Tetrachloroethene (PCE)	900	27	0.03	25.4	167	--	27.3	21.6
Trichloroethene (TCE)	1.6	53	0.03	<0.068	<0.068	--	0.2	0.095
Vinyl Chloride	11	370	0.03	<0.1	<0.1	--	<0.1	<0.1

Notes:

Vapor Risk Screening Level (VRSL) = Vapor Action Level (VAL) ÷ Attenuation Factor (AF) per Wisconsin Department of Natural Resources Quick Look-Up Table, dated May 2016.
Vapor Action Level (VAL) for Residential Land Use per Wisconsin Department of Natural Resources Quick Look-Up Table, dated May 2016.
Attenuation Factor (AF) = 0.03 for sub-floor vapor for Residential/Small Commercial Buildings per Wisconsin Department of Natural Resources Quick Look-Up Table, dated June 2015
Concentrations exceeding the VRSL are shown in bold.
< Below reporting limit
J Estimated concentration at or above the LOD and below the LQD.
All units are reported in parts per billion by volume (ppbv)
FD-1 -Field duplicate

Appendix A

**Laboratory Reports
Groundwater Sample
November MW-10**



Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 23, 2016

Mark McColloch
SHANNON & WILSON, INC.
6506 Schroeder Road
Suite 201
Madison, WI 53711

RE: Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Dear Mark McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40142233001	MW-10	Water	11/17/16 10:35	11/17/16 14:25
40142233002	TRIP BLANK	Water	11/17/16 00:00	11/17/16 14:25

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SAMPLE ANALYTE COUNT

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40142233001	MW-10	EPA 8260	HNW	64
40142233002	TRIP BLANK	EPA 8260	HNW	64

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40142233001	MW-10					
EPA 8260	1,1,1-Trichloroethane	0.90J	ug/L	1.0	11/22/16 11:59	
EPA 8260	Methyl-tert-butyl ether	0.21J	ug/L	1.0	11/22/16 11:59	
EPA 8260	Tetrachloroethene	3.8	ug/L	1.0	11/22/16 11:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37409-001 UNITED DRY CLNR
 Pace Project No.: 40142233

Sample: MW-10 Lab ID: 40142233001 Collected: 11/17/16 10:35 Received: 11/17/16 14:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		11/22/16 11:59	630-20-6	
1,1,1-Trichloroethane	0.90J	ug/L	1.0	0.50	1		11/22/16 11:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		11/22/16 11:59	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		11/22/16 11:59	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		11/22/16 11:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		11/22/16 11:59	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		11/22/16 11:59	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		11/22/16 11:59	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		11/22/16 11:59	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		11/22/16 11:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		11/22/16 11:59	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		11/22/16 11:59	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		11/22/16 11:59	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		11/22/16 11:59	594-20-7	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		11/22/16 11:59	106-43-4	
Benzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		11/22/16 11:59	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		11/22/16 11:59	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		11/22/16 11:59	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		11/22/16 11:59	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		11/22/16 11:59	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		11/22/16 11:59	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		11/22/16 11:59	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		11/22/16 11:59	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		11/22/16 11:59	98-82-8	
Methyl-tert-butyl ether	0.21J	ug/L	1.0	0.17	1		11/22/16 11:59	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		11/22/16 11:59	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		11/22/16 11:59	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	100-42-5	
Tetrachloroethene	3.8	ug/L	1.0	0.50	1		11/22/16 11:59	127-18-4	

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ANALYTICAL RESULTS

Project: 42-1-37409-001 UNITED DRY CLNR
 Pace Project No.: 40142233

Sample: MW-10 Lab ID: 40142233001 Collected: 11/17/16 10:35 Received: 11/17/16 14:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		11/22/16 11:59	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		11/22/16 11:59	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		11/22/16 11:59	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		11/22/16 11:59	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/22/16 11:59	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		11/22/16 11:59	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		11/22/16 11:59	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		11/22/16 11:59	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		11/22/16 11:59	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		11/22/16 11:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/22/16 11:59	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/22/16 11:59	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/22/16 11:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 42-1-37409-001 UNITED DRY CLNR
 Pace Project No.: 40142233

Sample: TRIP BLANK Lab ID: 40142233002 Collected: 11/17/16 00:00 Received: 11/17/16 14:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		11/22/16 23:37	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		11/22/16 23:37	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		11/22/16 23:37	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		11/22/16 23:37	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		11/22/16 23:37	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		11/22/16 23:37	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		11/22/16 23:37	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		11/22/16 23:37	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		11/22/16 23:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		11/22/16 23:37	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		11/22/16 23:37	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		11/22/16 23:37	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		11/22/16 23:37	594-20-7	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		11/22/16 23:37	106-43-4	
Benzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		11/22/16 23:37	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		11/22/16 23:37	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		11/22/16 23:37	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		11/22/16 23:37	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		11/22/16 23:37	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		11/22/16 23:37	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		11/22/16 23:37	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		11/22/16 23:37	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		11/22/16 23:37	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		11/22/16 23:37	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		11/22/16 23:37	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		11/22/16 23:37	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	127-18-4	

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ANALYTICAL RESULTS

Project: 42-1-37409-001 UNITED DRY CLNR
 Pace Project No.: 40142233

Sample: TRIP BLANK Lab ID: 40142233002 Collected: 11/17/16 00:00 Received: 11/17/16 14:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		11/22/16 23:37	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		11/22/16 23:37	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		11/22/16 23:37	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		11/22/16 23:37	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/22/16 23:37	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		11/22/16 23:37	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		11/22/16 23:37	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		11/22/16 23:37	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		11/22/16 23:37	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		11/22/16 23:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/22/16 23:37	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/22/16 23:37	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/22/16 23:37	2037-26-5	

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QUALITY CONTROL DATA

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

QC Batch: 241990 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40142233001, 40142233002

METHOD BLANK: 1434872 Matrix: Water
Associated Lab Samples: 40142233001, 40142233002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	11/22/16 06:28	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	11/22/16 06:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	11/22/16 06:28	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	11/22/16 06:28	
1,1-Dichloroethane	ug/L	<0.24	1.0	11/22/16 06:28	
1,1-Dichloroethene	ug/L	<0.41	1.0	11/22/16 06:28	
1,1-Dichloropropene	ug/L	<0.44	1.0	11/22/16 06:28	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	11/22/16 06:28	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	11/22/16 06:28	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	11/22/16 06:28	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/22/16 06:28	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	11/22/16 06:28	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	11/22/16 06:28	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	11/22/16 06:28	
1,2-Dichloroethane	ug/L	<0.17	1.0	11/22/16 06:28	
1,2-Dichloropropane	ug/L	<0.23	1.0	11/22/16 06:28	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/22/16 06:28	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	11/22/16 06:28	
1,3-Dichloropropane	ug/L	<0.50	1.0	11/22/16 06:28	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	11/22/16 06:28	
2,2-Dichloropropane	ug/L	<0.48	1.0	11/22/16 06:28	
2-Chlorotoluene	ug/L	<0.50	1.0	11/22/16 06:28	
4-Chlorotoluene	ug/L	<0.21	1.0	11/22/16 06:28	
Benzene	ug/L	<0.50	1.0	11/22/16 06:28	
Bromobenzene	ug/L	<0.23	1.0	11/22/16 06:28	
Bromochloromethane	ug/L	<0.34	1.0	11/22/16 06:28	
Bromodichloromethane	ug/L	<0.50	1.0	11/22/16 06:28	
Bromoform	ug/L	<0.50	1.0	11/22/16 06:28	
Bromomethane	ug/L	<2.4	5.0	11/22/16 06:28	
Carbon tetrachloride	ug/L	<0.50	1.0	11/22/16 06:28	
Chlorobenzene	ug/L	<0.50	1.0	11/22/16 06:28	
Chloroethane	ug/L	<0.37	1.0	11/22/16 06:28	
Chloroform	ug/L	<2.5	5.0	11/22/16 06:28	
Chloromethane	ug/L	<0.50	1.0	11/22/16 06:28	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	11/22/16 06:28	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	11/22/16 06:28	
Dibromochloromethane	ug/L	<0.50	1.0	11/22/16 06:28	
Dibromomethane	ug/L	<0.43	1.0	11/22/16 06:28	
Dichlorodifluoromethane	ug/L	<0.22	1.0	11/22/16 06:28	
Diisopropyl ether	ug/L	<0.50	1.0	11/22/16 06:28	
Ethylbenzene	ug/L	<0.50	1.0	11/22/16 06:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

METHOD BLANK: 1434872 Matrix: Water
Associated Lab Samples: 40142233001, 40142233002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	11/22/16 06:28	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	11/22/16 06:28	
m&p-Xylene	ug/L	<1.0	2.0	11/22/16 06:28	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	11/22/16 06:28	
Methylene Chloride	ug/L	<0.23	1.0	11/22/16 06:28	
n-Butylbenzene	ug/L	<0.50	1.0	11/22/16 06:28	
n-Propylbenzene	ug/L	<0.50	1.0	11/22/16 06:28	
Naphthalene	ug/L	<2.5	5.0	11/22/16 06:28	
o-Xylene	ug/L	<0.50	1.0	11/22/16 06:28	
p-Isopropyltoluene	ug/L	<0.50	1.0	11/22/16 06:28	
sec-Butylbenzene	ug/L	<2.2	5.0	11/22/16 06:28	
Styrene	ug/L	<0.50	1.0	11/22/16 06:28	
tert-Butylbenzene	ug/L	<0.18	1.0	11/22/16 06:28	
Tetrachloroethene	ug/L	<0.50	1.0	11/22/16 06:28	
Toluene	ug/L	<0.50	1.0	11/22/16 06:28	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	11/22/16 06:28	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	11/22/16 06:28	
Trichloroethene	ug/L	<0.33	1.0	11/22/16 06:28	
Trichlorofluoromethane	ug/L	<0.18	1.0	11/22/16 06:28	
Vinyl chloride	ug/L	<0.18	1.0	11/22/16 06:28	
4-Bromofluorobenzene (S)	%	92	70-130	11/22/16 06:28	
Dibromofluoromethane (S)	%	103	70-130	11/22/16 06:28	
Toluene-d8 (S)	%	98	70-130	11/22/16 06:28	

LABORATORY CONTROL SAMPLE: 1434873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	67-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	52.3	105	70-133	
1,1-Dichloroethene	ug/L	50	52.8	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
1,2-Dichloropropane	ug/L	50	47.7	95	70-130	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
Benzene	ug/L	50	52.5	105	60-135	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	43.4	87	70-130	
Bromomethane	ug/L	50	46.2	92	33-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

LABORATORY CONTROL SAMPLE: 1434873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	48.3	97	70-138	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	56.7	113	51-130	
Chloroform	ug/L	50	49.6	99	70-130	
Chloromethane	ug/L	50	58.0	116	25-132	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	69-130	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	48.1	96	70-130	
Dichlorodifluoromethane	ug/L	50	43.4	87	23-130	
Ethylbenzene	ug/L	50	53.0	106	70-136	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-140	
m&p-Xylene	ug/L	100	104	104	70-138	
Methyl-tert-butyl ether	ug/L	50	54.4	109	66-138	
Methylene Chloride	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	52.0	104	70-134	
Styrene	ug/L	50	47.1	94	70-133	
Tetrachloroethene	ug/L	50	48.4	97	70-138	
Toluene	ug/L	50	51.2	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.8	110	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	69-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	59.8	120	50-150	
Vinyl chloride	ug/L	50	58.8	118	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1435155 1435156

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40142224001 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	<1.0	50	50	52.2	52.7	104	105	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	48.4	50.1	97	100	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	47.2	51.0	94	102	70-130	8	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	52.4	52.8	105	106	70-134	1	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	53.2	54.2	106	108	68-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	51.8	54.3	101	106	62-139	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	46.2	48.7	92	97	50-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	48.5	50.6	97	101	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	51.5	52.7	102	105	70-130	2	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	51.4	52.2	103	104	70-130	1	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	47.7	50.2	95	100	70-130	5	20	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	51.9	54.3	103	108	70-131	5	20	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	51.1	53.5	102	106	70-130	5	20	

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QUALITY CONTROL DATA

Project: 42-1-37409-001 UNITED DRY CLNR
Page Project No.: 40142233

Parameter	Units	40142224001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Benzene	ug/L	<1.0	50	50	53.5	54.5	107	109	57-138	2	20		
Bromodichloromethane	ug/L	<1.0	50	50	51.2	53.8	102	108	70-130	5	20		
Bromoform	ug/L	<1.0	50	50	40.1	42.8	80	86	70-130	7	20		
Bromomethane	ug/L	<5.0	50	50	47.9	50.7	96	101	33-130	6	27		
Carbon tetrachloride	ug/L	<1.0	50	50	49.2	50.9	98	102	70-138	3	20		
Chlorobenzene	ug/L	<1.0	50	50	49.5	53.1	99	106	70-130	7	20		
Chloroethane	ug/L	<1.0	50	50	57.7	60.4	115	121	51-130	5	20		
Chloroform	ug/L	<5.0	50	50	49.4	49.9	99	100	70-130	1	20		
Chloromethane	ug/L	<1.0	50	50	57.6	57.9	115	116	25-132	1	20		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	50.4	50.8	101	102	61-140	1	20		
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	49.4	50.8	99	102	70-130	3	20		
Dibromochloromethane	ug/L	<1.0	50	50	47.5	50.0	95	100	70-130	5	20		
Dichlorodifluoromethane	ug/L	<1.0	50	50	42.3	43.4	85	87	23-130	3	20		
Ethylbenzene	ug/L	<1.0	50	50	52.1	55.1	104	110	70-138	6	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	51.7	54.4	103	109	70-152	5	20		
m&p-Xylene	ug/L	<2.0	100	100	102	109	102	108	70-140	6	20		
Methyl-tert-butyl ether	ug/L	<1.0	50	50	53.4	54.2	107	108	66-139	1	20		
Methylene Chloride	ug/L	<1.0	50	50	51.8	53.0	104	106	70-130	2	20		
o-Xylene	ug/L	<1.0	50	50	51.0	53.4	102	107	70-134	4	20		
Styrene	ug/L	3.3	50	50	45.7	48.8	85	91	70-138	6	20		
Tetrachloroethene	ug/L	<1.0	50	50	47.8	50.8	96	102	70-148	6	20		
Toluene	ug/L	<1.0	50	50	50.0	53.1	100	106	70-130	6	20		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	56.5	56.2	113	112	70-133	1	20		
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	45.9	48.4	92	97	69-130	5	20		
Trichloroethene	ug/L	<1.0	50	50	50.1	51.7	100	103	70-131	3	20		
Trichlorofluoromethane	ug/L	<1.0	50	50	59.9	61.8	120	124	50-150	3	20		
Vinyl chloride	ug/L	<1.0	50	50	57.5	59.3	115	119	49-133	3	20		
4-Bromofluorobenzene (S)	%						98	99	70-130				
Dibromofluoromethane (S)	%						102	99	70-130				
Toluene-d8 (S)	%						97	99	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37409-001 UNITED DRY CLNR
Pace Project No.: 40142233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142233001	MW-10	EPA 8260	241990		
40142233002	TRIP BLANK	EPA 8260	241990		

REPORT OF LABORATORY ANALYSIS

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Pace Container Order #178957

Addresses

Order By :	Ship To :	Return To:
Company <u>SHANNON & WILSON, INC.</u>	Company <u>SHANNON & WILSON, INC.</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>McColloch, Mark</u>	Contact <u>McColloch, Mark</u>	Contact <u>Mieczko, Steven</u>
Email <u>msm@shanwil.com</u>	Email <u>msm@shanwil.com</u>	Email <u>steve.mieczko@pacelabs.com</u>
Address <u>6506 Schroeder Road</u>	Address <u>6506 Schroeder Road</u>	Address <u>1241 Bellevue Street</u>
Address 2 <u>Suite 201</u>	Address 2 <u>Suite 201</u>	Address 2 <u>Sulte 9</u>
City <u>Madison</u>	City <u>Madison</u>	City <u>Green Bay</u>
State <u>WI</u> Zip <u>53711</u>	State <u>WI</u> Zip <u>53711</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>608-442-5223</u>	Phone <u>608-442-5223</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>United Dry Cleaner</u>	Due Date <u>11/08/2016</u>	Profile _____	Quote _____
Project Manager <u>Mieczko, Steven</u>	Return _____	Carrier <u>Most Economical</u>	Location <u>WI</u>

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

Boxed Cases
 Individually Wrapped
 Grouped By Sample

Return Shipping Labels

No Shipper Number
 With Shipper Number

Misc

Sampling Instructions
 Custody Seal
 Temp. Blanks
 Coolers
 Syringes

Extra Bubble Wrap
 Short Hold/Rush Stickers
 DI Water
 USDA Regulated Soils

COC Options

Number of Blanks
 Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
1	WT	VOC by 8260	3-40 mL glass vials, HCl preserved	3	0	B-6-265-01VB	
1	WT	Trip BLANK	2 - 40 ml vials w/ HCL	2	0	B-6-233-01VB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	11/04/2016
Prepared By:	Mal Yer Her
Verified By:	

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Client Name: Shannon + Wilson

Project # **WO# : 40142233**

Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: _____



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: DOI Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 11-17-16
Initials: [Signature]

Comments:

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
Initial when completed	Lab Std #/ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>372</u>	<u>11-17-16 SN</u>

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 11/17/16

Appendix B

**Laboratory Reports
Vapor Probe Samples
United Dry Cleaner and
Piggly Wiggly Buildings**



November 30, 2016

Mr. Mark McColloch
Shannon & Wilson, Inc.
6506 Schroeder Road
Suite 201
Madison, WI 53719

RE: Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322

Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10370748001	VP-1	Air	11/17/16 12:57	11/18/16 09:20
10370748002	VP-2	Air	11/17/16 11:55	11/18/16 09:20
10370748003	VP-3	Air	11/17/16 12:07	11/18/16 09:20
10370748004	VP-4	Air	11/17/16 13:20	11/18/16 09:20

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SAMPLE ANALYTE COUNT

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10370748001	VP-1	TO-15	NCK	5
10370748002	VP-2	TO-15	NCK	5
10370748003	VP-3	TO-15	NCK	5
10370748004	VP-4	TO-15	NCK	5

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ANALYTICAL RESULTS

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Sample: VP-1 Lab ID: 10370748001 Collected: 11/17/16 12:57 Received: 11/18/16 09:20 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		11/22/16 17:36	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		11/22/16 17:36	156-60-5	
Tetrachloroethene	175	ug/m3	0.92	0.37	1.34		11/22/16 17:36	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		11/22/16 17:36	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		11/22/16 17:36	75-01-4	

Sample: VP-2 Lab ID: 10370748002 Collected: 11/17/16 11:55 Received: 11/18/16 09:20 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		11/22/16 18:07	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		11/22/16 18:07	156-60-5	
Tetrachloroethene	1150	ug/m3	9.2	3.7	13.4		11/23/16 12:37	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		11/22/16 18:07	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		11/22/16 18:07	75-01-4	

Sample: VP-3 Lab ID: 10370748003 Collected: 11/17/16 12:07 Received: 11/18/16 09:20 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		11/22/16 18:42	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		11/22/16 18:42	156-60-5	
Tetrachloroethene	188	ug/m3	0.92	0.37	1.34		11/22/16 18:42	127-18-4	
Trichloroethene	1.1	ug/m3	0.74	0.37	1.34		11/22/16 18:42	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		11/22/16 18:42	75-01-4	

Sample: VP-4 Lab ID: 10370748004 Collected: 11/17/16 13:20 Received: 11/18/16 09:20 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		11/22/16 19:49	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		11/22/16 19:49	156-60-5	
Tetrachloroethene	149	ug/m3	0.92	0.37	1.34		11/22/16 19:49	127-18-4	
Trichloroethene	0.52J	ug/m3	0.74	0.37	1.34		11/22/16 19:49	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		11/22/16 19:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

QC Batch: 448617 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR - AMBIENT
Associated Lab Samples: 10370748001, 10370748002, 10370748003, 10370748004

METHOD BLANK: 2455656 Matrix: Air
Associated Lab Samples: 10370748001, 10370748002, 10370748003, 10370748004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	11/22/16 17:06	
Tetrachloroethene	ug/m3	<0.28	0.69	11/22/16 17:06	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	11/22/16 17:06	
Trichloroethene	ug/m3	<0.28	0.55	11/22/16 17:06	
Vinyl chloride	ug/m3	<0.20	0.26	11/22/16 17:06	

LABORATORY CONTROL SAMPLE: 2455657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.9	36.2	82	65-139	
Tetrachloroethene	ug/m3	72.4	57.5	79	60-142	
trans-1,2-Dichloroethene	ug/m3	41.9	36.6	87	67-137	
Trichloroethene	ug/m3	57.9	47.1	81	60-144	
Vinyl chloride	ug/m3	27	23.3	86	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37409 United Dry Cleaners
Pace Project No.: 10370748

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10370748001	VP-1	TO-15	448617		
10370748002	VP-2	TO-15	448617		
10370748003	VP-3	TO-15	448617		
10370748004	VP-4	TO-15	448617		


REPORT OF LABORATORY ANALYSIS

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Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson Project #: _____

WO#: 10370748



10370748

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 6637 540 0749

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 151401163
 B88A0143310098 151401164

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 11/20/16

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Catalyne Hunt Date: 11/21/16
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Pace Analytical Services, Inc.
 1700 Elm Street - Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10370748
 Project Name: 42-1-37409 United Dry Cleaners

Lab Sample No: 10370748001
 Client Sample ID: VP-1

ProjSampleNum: 10370748001
 Matrix: Air

Date Collected: 11/17/16 12:57
 Date Received: 11/18/16 9:20

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
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Air
 TO-15

cis-1,2-Dichloroethene	<0.082	ppbv	0.27	1.34	11/22/16 17:36	NCK 156-59-2	
Tetrachloroethene	25.4	ppbv	0.13	1.34	11/22/16 17:36	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	1.34	11/22/16 17:36	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	1.34	11/22/16 17:36	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	1.34	11/22/16 17:36	NCK 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10370748
 Project Name: 42-1-37409 United Dry Cleaners

Lab Sample No: 10370748002
 Client Sample ID: VP-2

ProjSampleNum: 10370748002
 Matrix: Air

Date Collected: 11/17/16 11:55
 Date Received: 11/18/16 9:20

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	1.34	11/22/16 18:07	NCK 156-59-2	
Tetrachloroethene	167	ppbv	1.3	13.4	11/23/16 12:37	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	1.34	11/22/16 18:07	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	1.34	11/22/16 18:07	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	1.34	11/22/16 18:07	NCK 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
 1700 Elm Street - Suite 200
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 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10370748
 Project Name: 42-1-37409 United Dry Cleaners

Lab Sample No: 10370748003
 Client Sample ID: VP-3

ProjSampleNum: 10370748003
 Matrix: Air

Date Collected: 11/17/16 12:07
 Date Received: 11/18/16 9:20

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	1.34	11/22/16 18:42	NCK 156-59-2	
Tetrachloroethene	27.3	ppbv	0.13	1.34	11/22/16 18:42	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	1.34	11/22/16 18:42	NCK 156-60-5	
Trichloroethene	0.2	ppbv	0.14	1.34	11/22/16 18:42	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	1.34	11/22/16 18:42	NCK 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
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 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10370748
 Project Name: 42-1-37409 United Dry Cleaners

Lab Sample No: 10370748004
 Client Sample ID: VP-4

ProjSampleNum: 10370748004
 Matrix: Air

Date Collected: 11/17/16 13:20
 Date Received: 11/18/16 9:20

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	1.34	11/22/16 19:49	NCK 156-59-2	
Tetrachloroethene	21.6	ppbv	0.13	1.34	11/22/16 19:49	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	1.34	11/22/16 19:49	NCK 156-60-5	
Trichloroethene	0.095J	ppbv	0.14	1.34	11/22/16 19:49	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	1.34	11/22/16 19:49	NCK 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



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ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10370748
Project Name: 42-1-37409 United Dry Cleaners

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Units Conversion Request

Date: 11/30/2016

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