

May 16, 2017

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

Attn: Tauren R. Beggs

RE: WDNR BRRTS No. 02-36-544383
Status Report – May 2017 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 recent 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 January 11, 2017 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, and subsequent email dated December 22, 2016. The scope of work for this revised change order was approved by WDNR on January 19, 2017 and includes the following tasks:

- Additional groundwater sample collection at MW-10 in February and May 2017;
- Additional soil sample collection to define the extent of soil contamination;
- SVE confirmation soil and soil gas sample collection;
- Operation and Maintenance Plan preparation; and
- Resubmittal of Case Closure documents.

Results for post remediation soil samples, soil gas, and groundwater samples collected in February 2017 were summarized in a March 14th status report. May 2017 results are summarized in this status report.

May 2017 Groundwater and Soil Gas Sample Collection

Additional groundwater and soil gas samples were collected on May 1st, 2017. 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 Attachment 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 December 30, 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 approximately 55 minutes to fill.

May 2017 soil gas sampling included a background sample, an indoor air sample, and a duplicate sample. Summa canisters for indoor air and background samples were equipped with a flow controller calibrated by the laboratory for eight-hours. The summa canister for the background sample was placed near the exterior southern wall the United Dry Cleaners building, and the sample collected on May 1st between 9:15 a.m. and 5:15 p.m. The canister for the indoor air sample was placed near the center of the United Dry Cleaner building within the former dry cleaner store. This sample collected also collected on May 1st between 9:15 a.m. and 5:15 p.m. while the building was unoccupied. The duplicate sample was collected at VP-2.

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 2A and 2B. Laboratory reports for May 2017 soil gas samples are included in Attachment B.

May 2017 Groundwater and Soil Gas Sample Results

Tetrachloroethene (PCE) was detected in the February 2017 MW-10 sample at a low concentration (3.7 µg/L). As with previous MW-10 samples, PCE was detected above the 0.5 µg/L Preventive Action Limit (PAL), but below the 5 µg/L Enforcement Standard (ES).

In May 2017 PCE was detected in all four sub-floor vapor probes at concentrations that ranged from 7.6 ppbv at VP-1 to 173 ppbv in the duplicate sample collected at VP-2. PCE in these samples is below the 210 ppbv Vapor Risk Screening Level (VRSL) for residential buildings, and below the 900 ppbv VRSL for small commercial buildings.

Background and Indoor Air Sample Results

Indoor air and background samples were collected in February and May 2017 concurrent with vapor probe soil gas sampling. In February PCE was detected in the indoor air sample at 122 ppbv, and in the background samples at 0.52 ppbv. In May PCE was detected in the background samples at 0.25 ppbv and in the indoor air sample at 0.64 ppbv; TCE was also detected in the indoor air sample at 0.099 ppbv. PCE exceeded the vapor action level (VAL) for residential buildings and for small commercial buildings in February, but was below the VAL in the May indoor air sample and both background samples.

Both indoor air samples were collected from the former dry cleaning store (center suite). The dry cleaning business is no longer operating. All dry cleaning equipment was removed, but three drums containing dry cleaning chemicals were present when the February indoor air sample was collected. Following February indoor air sampling, the tenant made arrangements for removal of the dry cleaning chemicals. On March 30, 2017, Safety-Kleen System Inc. removed three drums from the building and transported this material off-site for disposal. The disposal manifest for these drums is included in Attachment C. PCE was then detected in the May sample at a low concentration below the VAL. These results indicate that drums of dry cleaning chemicals likely interfered with the February indoor air sample.

Conclusions and Recommendations

PCE was detected in all five samples collected from MW-10. Concentration ranged from 2.8 µg/l in November 2015 and 3.9µg/l in February 2017. Though detected above the 0.5 µg/L PAL, it remains below the 5 µg/L ES. Consequently, Shannon & Wilson recommends no additional groundwater sampling, and abandonment of all site wells. Following well abandonment, revised off-site letters should be sent to the same property owners as initial off-site letters sent in May 2016. Copies of these letters will then be included with the revised case closure request.

Soil gas samples were collected at vapor probes VP-1, VP-2, VP-3, and VP-4 in November 2016, February 2017, and May 2017. All samples were collected while the SSDS systems were not in operation. Results indicate that PCE remains at concentrations below the 210 ppbv VRSL for residential buildings and below the 900 ppbv VRSL for small commercial buildings. Shannon & Wilson understands that operation of three sub-floor depressurization systems (SSDS)¹ will not be required as a continuing obligation following case closure because no VRSLs were exceeded in these vapor probe samples. Consequently, the long-term maintenance plan will be limited to

¹ All three SSDS's were installed as an interim response in December 2011.

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SHANNON & WILSON, INC.

maintaining the concrete floor and asphalt pavement as caps. The long-term maintenance plan will also be included with the revised case closure request.

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

Sincerely,

SHANNON & WILSON, INC.

Mark S. McColloch, P.G.
Senior Associate

cc: Steve Hamann, Zenith Properties LLC

Attachments

Table 1	Historic Groundwater Sample Results
Table 2A	Results for Soil Gas Probes – Residential Building Vapor Risk Screening Levels
Table 2B	Results for Soil Gas Probes – Small Commercial Building Vapor Risk Screening Levels
Attachment A	Laboratory Report – May 2017 MW-10 Groundwater Sample
Attachment B	Laboratory Report – May 2017 Soil Gas Samples
Attachment C	Dry Cleaning Chemical Disposal Documentation

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
<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

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>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
<i>February 1, 2017</i>												
Tetrachloroethene (PCE)	--	--	--	--	--	--	--	--	--	3.9	0.5	5
1,1,1 Trichloroethane	--	--	--	--	--	--	--	--	--	1.0	40	200
Methyl-tert-butyl ether	--	--	--	--	--	--	--	--	--	0.19 J	12	60
<i>May 1, 2017</i>												
Tetrachloroethene (PCE)	--	--	--	--	--	--	--	--	--	3.7	0.5	5
1,1,1 Trichloroethane	--	--	--	--	--	--	--	--	--	0.56 J	40	200

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 2A
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)						
				VP-1	VP-2	FD-1(VP-2)	VP-3	VP-4		
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	<13,700	<686		
trans-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,700	<686		
Tetrachloroethene (PCE)	210	6.2	0.03	87.7	1,710	1,270	763,000	2,700		
Trichloroethene (TCE)	13	0.39	0.03	<6.7	<214	<172	<13,700	<686		
Vinyl Chloride	22	0.65	0.03	<6.7	<214	<172	<13,700	<686		
Sample Location				VP-1	VP-2	VP-2(FD-1)	VP-3	VP-4		
Sample Date				Mar-12	Mar-12	Mar-12	Mar-12	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-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		
Sample Location				VP-1	VP-2	Dup#1(VP-2)	VP-3	VP-4	Indoor Air	Background
Sample Date				Feb-17	Feb-17	Feb-17	Feb-17	Feb-17	Feb-17	Feb-17
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0	--	--
cis-1,2-Dichloroethene	--	NA	0.03	<0.082	<0.084	<0.077	<0.082	<0.082	<0.082	<0.092
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	<0.12	<0.13	<0.13	<0.13	<0.14
Tetrachloroethene (PCE)	210	6.2	0.03	8.1	97.9	88.9	27.4	6.4	122	0.52
Trichloroethene (TCE)	13	0.39	0.03	<0.068	<0.07	<0.064	0.084 J	<0.068	<0.068	<0.075
Vinyl Chloride	22	0.65	0.03	<0.1	<0.1	<0.096	<0.1	<0.1	<0.1	<0.11
Sample Location				VP-1	VP-2	Dup#1(VP-2)	VP-3	VP-4	Indoor Air	Background
Sample Date				May-17	May-17	May-17	May-17	May-17	May-17	May-17
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0	--	--
cis-1,2-Dichloroethene	--	NA	0.03	<0.084	<0.082	<0.082	<0.082	<0.082	<0.084	<0.082
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Tetrachloroethene (PCE)	210	6.2	0.03	7.6	167	173	38	23.4	0.64	0.25
Trichloroethene (TCE)	13	0.39	0.03	<0.07	<0.068	<0.068	<0.17	<0.068	0.099 J	<0.068
Vinyl Chloride	22	0.65	0.03	<0.1	<0.1	<0.1	<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 2B
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	VP-4	
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	<13,700	<686		
trans-1,2-Dichloroethene	--	NA	0.03	<6.7	<214	<172	<13,700	<686		
Tetrachloroethene (PCE)	900	27	0.03	87.7	1,710	1,270	763,000	2,700		
Trichloroethene (TCE)	53	1.6	0.03	<6.7	<214	<172	<13,700	<686		
Vinyl Chloride	370	11	0.03	<6.7	<214	<172	<13,700	<686		
Sample Location				VP-1	VP-2	VP-2(FD-1)	VP-3	VP-4		
Sample Date				Mar-12	Mar-12	Mar-12	Mar-12	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)	53	1.6	0.03	<13.4	<3.4	<13.4	<3.4	<0.67		
Vinyl Chloride	370	11	0.03	<13.4	<3.4	<13.4	<3.4	<0.67		
Sample Location				VP-1	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)	53	1.6	0.03	<3.5	--	--	--	--		
Vinyl Chloride	370	11	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)	53	1.6	0.03	<0.068	<0.068	--	0.2	0.095		
Vinyl Chloride	370	11	0.03	<0.1	<0.1	--	<0.1	<0.1		
Sample Location				VP-1	VP-2	Dup#1(VP-2)	VP-3	VP-4	Indoor Air	Background
Sample Date				Feb-17	Feb-17	Feb-17	Feb-17	Feb-17	Feb-17	Feb-17
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0	--	--
cis-1,2-Dichloroethene	--	NA	0.03	<0.082	<0.084	<0.077	<0.082	<0.082	<0.082	<0.092
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	<0.12	<0.13	<0.13	<0.13	<0.14
Tetrachloroethene (PCE)	900	27	0.03	8.1	97.9	88.9	27.4	6.4	122	0.52
Trichloroethene (TCE)	53	1.6	0.03	<0.068	<0.07	<0.064	0.084 J	<0.068	<0.068	<0.075
Vinyl Chloride	370	11	0.03	<0.1	<0.1	<0.096	<0.1	<0.1	<0.1	<0.11
Sample Location				VP-1	VP-2	Dup#1(VP-2)	VP-3	VP-4	Indoor Air	Background
Sample Date				May-17	May-17	May-17	May-17	May-17	May-17	May-17
Sample Depth (ft.)				<1.0	<1.0	<1.0	<1.0	<1.0	--	--
cis-1,2-Dichloroethene	--	NA	0.03	<0.084	<0.082	<0.082	<0.082	<0.082	<0.084	<0.082
trans-1,2-Dichloroethene	--	NA	0.03	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Tetrachloroethene (PCE)	900	27	0.03	7.6	167	173	38	23.4	0.64	0.25
Trichloroethene (TCE)	53	1.6	0.03	<0.07	<0.068	<0.068	<0.17	<0.068	0.099 J	<0.068
Vinyl Chloride	370	11	0.03	<0.1	<0.1	<0.1	<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

Attachment A

**Laboratory Report
May 2017 MW-10
Groundwater Sample**

May 04, 2017

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

RE: Project: 42-1-37409 UNITED DRY CLEANERS
Pace Project No.: 40149183

Dear Mark McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2017. 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
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

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

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SAMPLE SUMMARY

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40149183001	MW-10	Water	05/01/17 10:30	05/01/17 14:15
40149183002	TRIP BLANK	Water	05/01/17 00:00	05/01/17 14:15

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SAMPLE ANALYTE COUNT

Project: 42-1-37409 UNITED DRY CLEANERS
Pace Project No.: 40149183

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40149183001	MW-10	EPA 8260	LAP	64
40149183002	TRIP BLANK	EPA 8260	LAP	64

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SUMMARY OF DETECTION

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40149183001	MW-10					
EPA 8260	1,1,1-Trichloroethane	0.56J	ug/L	1.0	05/03/17 10:01	
EPA 8260	Tetrachloroethene	3.7	ug/L	1.0	05/03/17 10:01	

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ANALYTICAL RESULTS

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Sample: MW-10 **Lab ID: 40149183001** Collected: 05/01/17 10:30 Received: 05/01/17 14:15 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		05/03/17 10:01	630-20-6	
1,1,1-Trichloroethane	0.56J	ug/L	1.0	0.50	1		05/03/17 10:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/03/17 10:01	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/03/17 10:01	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/03/17 10:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/03/17 10:01	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/03/17 10:01	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/03/17 10:01	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/03/17 10:01	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/03/17 10:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/03/17 10:01	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/03/17 10:01	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/03/17 10:01	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/03/17 10:01	594-20-7	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/03/17 10:01	106-43-4	
Benzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/03/17 10:01	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/03/17 10:01	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/03/17 10:01	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/03/17 10:01	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/03/17 10:01	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/03/17 10:01	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/03/17 10:01	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/03/17 10:01	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/03/17 10:01	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/03/17 10:01	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/03/17 10:01	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/03/17 10:01	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	100-42-5	
Tetrachloroethene	3.7	ug/L	1.0	0.50	1		05/03/17 10:01	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Sample: MW-10 **Lab ID: 40149183001** Collected: 05/01/17 10:30 Received: 05/01/17 14:15 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		05/03/17 10:01	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/03/17 10:01	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/03/17 10:01	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/03/17 10:01	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/03/17 10:01	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/03/17 10:01	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:01	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/03/17 10:01	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/03/17 10:01	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/03/17 10:01	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/03/17 10:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		05/03/17 10:01	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		05/03/17 10:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/03/17 10:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 42-1-37409 UNITED DRY CLEANERS
Pace Project No.: 40149183

Sample: TRIP BLANK **Lab ID: 40149183002** Collected: 05/01/17 00:00 Received: 05/01/17 14:15 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		05/03/17 10:23	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/03/17 10:23	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/03/17 10:23	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/03/17 10:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/03/17 10:23	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/03/17 10:23	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/03/17 10:23	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/03/17 10:23	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/03/17 10:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/03/17 10:23	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/03/17 10:23	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/03/17 10:23	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/03/17 10:23	594-20-7	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/03/17 10:23	106-43-4	
Benzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/03/17 10:23	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/03/17 10:23	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/03/17 10:23	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/03/17 10:23	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/03/17 10:23	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/03/17 10:23	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/03/17 10:23	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/03/17 10:23	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/03/17 10:23	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/03/17 10:23	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/03/17 10:23	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/03/17 10:23	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	127-18-4	

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ANALYTICAL RESULTS

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Sample: TRIP BLANK **Lab ID: 40149183002** Collected: 05/01/17 00:00 Received: 05/01/17 14:15 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		05/03/17 10:23	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/03/17 10:23	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/03/17 10:23	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/03/17 10:23	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/03/17 10:23	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/03/17 10:23	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/03/17 10:23	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/03/17 10:23	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/03/17 10:23	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/03/17 10:23	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/03/17 10:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/03/17 10:23	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		05/03/17 10:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/03/17 10:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37409 UNITED DRY CLEANERS
Pace Project No.: 40149183

QC Batch: 254337 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40149183001, 40149183002

METHOD BLANK: 1499948 Matrix: Water
Associated Lab Samples: 40149183001, 40149183002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/03/17 07:27	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/03/17 07:27	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/03/17 07:27	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/03/17 07:27	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/03/17 07:27	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/03/17 07:27	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/03/17 07:27	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/03/17 07:27	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/03/17 07:27	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/03/17 07:27	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/03/17 07:27	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/03/17 07:27	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/03/17 07:27	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/03/17 07:27	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/03/17 07:27	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/03/17 07:27	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/03/17 07:27	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/03/17 07:27	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/03/17 07:27	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/03/17 07:27	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/03/17 07:27	
2-Chlorotoluene	ug/L	<0.50	1.0	05/03/17 07:27	
4-Chlorotoluene	ug/L	<0.21	1.0	05/03/17 07:27	
Benzene	ug/L	<0.50	1.0	05/03/17 07:27	
Bromobenzene	ug/L	<0.23	1.0	05/03/17 07:27	
Bromochloromethane	ug/L	<0.34	1.0	05/03/17 07:27	
Bromodichloromethane	ug/L	<0.50	1.0	05/03/17 07:27	
Bromoform	ug/L	<0.50	1.0	05/03/17 07:27	
Bromomethane	ug/L	<2.4	5.0	05/03/17 07:27	
Carbon tetrachloride	ug/L	<0.50	1.0	05/03/17 07:27	
Chlorobenzene	ug/L	<0.50	1.0	05/03/17 07:27	
Chloroethane	ug/L	<0.37	1.0	05/03/17 07:27	
Chloroform	ug/L	<2.5	5.0	05/03/17 07:27	
Chloromethane	ug/L	<0.50	1.0	05/03/17 07:27	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/03/17 07:27	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/03/17 07:27	
Dibromochloromethane	ug/L	<0.50	1.0	05/03/17 07:27	
Dibromomethane	ug/L	<0.43	1.0	05/03/17 07:27	
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/03/17 07:27	
Diisopropyl ether	ug/L	<0.50	1.0	05/03/17 07:27	
Ethylbenzene	ug/L	<0.50	1.0	05/03/17 07:27	

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QUALITY CONTROL DATA

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

METHOD BLANK: 1499948

Matrix: Water

Associated Lab Samples: 40149183001, 40149183002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/03/17 07:27	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/03/17 07:27	
m&p-Xylene	ug/L	<1.0	2.0	05/03/17 07:27	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/03/17 07:27	
Methylene Chloride	ug/L	<0.23	1.0	05/03/17 07:27	
n-Butylbenzene	ug/L	<0.50	1.0	05/03/17 07:27	
n-Propylbenzene	ug/L	<0.50	1.0	05/03/17 07:27	
Naphthalene	ug/L	<2.5	5.0	05/03/17 07:27	
o-Xylene	ug/L	<0.50	1.0	05/03/17 07:27	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/03/17 07:27	
sec-Butylbenzene	ug/L	<2.2	5.0	05/03/17 07:27	
Styrene	ug/L	<0.50	1.0	05/03/17 07:27	
tert-Butylbenzene	ug/L	<0.18	1.0	05/03/17 07:27	
Tetrachloroethene	ug/L	<0.50	1.0	05/03/17 07:27	
Toluene	ug/L	<0.50	1.0	05/03/17 07:27	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/03/17 07:27	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/03/17 07:27	
Trichloroethene	ug/L	<0.33	1.0	05/03/17 07:27	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/03/17 07:27	
Vinyl chloride	ug/L	<0.18	1.0	05/03/17 07:27	
4-Bromofluorobenzene (S)	%	85	70-130	05/03/17 07:27	
Dibromofluoromethane (S)	%	98	70-130	05/03/17 07:27	
Toluene-d8 (S)	%	103	70-130	05/03/17 07:27	

LABORATORY CONTROL SAMPLE: 1499949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.0	104	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	67-130	
1,1,2-Trichloroethane	ug/L	50	47.5	95	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-133	
1,1-Dichloroethene	ug/L	50	47.6	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.2	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.0	92	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	48.4	97	70-130	
1,2-Dichloropropane	ug/L	50	50.0	100	70-130	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-130	
Benzene	ug/L	50	53.2	106	60-135	
Bromodichloromethane	ug/L	50	49.1	98	70-130	
Bromoform	ug/L	50	47.3	95	70-130	
Bromomethane	ug/L	50	39.1	78	33-130	

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QUALITY CONTROL DATA

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

LABORATORY CONTROL SAMPLE: 1499949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	51.8	104	70-138	
Chlorobenzene	ug/L	50	49.4	99	70-130	
Chloroethane	ug/L	50	38.6	77	51-130	
Chloroform	ug/L	50	51.0	102	70-130	
Chloromethane	ug/L	50	54.2	108	25-132	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	69-130	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dichlorodifluoromethane	ug/L	50	55.0	110	23-130	
Ethylbenzene	ug/L	50	55.0	110	70-136	
Isopropylbenzene (Cumene)	ug/L	50	55.2	110	70-140	
m&p-Xylene	ug/L	100	112	112	70-138	
Methyl-tert-butyl ether	ug/L	50	45.5	91	66-138	
Methylene Chloride	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	54.6	109	70-134	
Styrene	ug/L	50	51.2	102	70-133	
Tetrachloroethene	ug/L	50	49.9	100	70-138	
Toluene	ug/L	50	53.0	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	70-131	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	69-130	
Trichloroethene	ug/L	50	53.8	108	70-130	
Trichlorofluoromethane	ug/L	50	50.4	101	50-150	
Vinyl chloride	ug/L	50	52.4	105	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499953 1499954

Parameter	Units	40149183001		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	0.56J	50	50	50.6	51.3	100	102	70-134	1	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	45.2	46.8	90	94	67-130	3	20			
1,1,2-Trichloroethane	ug/L	<0.20	50	50	46.4	48.2	93	96	70-130	4	20			
1,1-Dichloroethane	ug/L	<0.24	50	50	44.2	44.6	88	89	70-134	1	20			
1,1-Dichloroethene	ug/L	<0.41	50	50	46.1	46.2	92	92	68-136	0	20			
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	43.5	44.4	87	89	62-139	2	20			
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	42.0	46.1	84	92	50-150	9	20			
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	48.7	51.9	97	104	70-130	6	20			
1,2-Dichlorobenzene	ug/L	<0.50	50	50	46.6	48.4	93	97	70-130	4	20			
1,2-Dichloroethane	ug/L	<0.17	50	50	45.6	45.8	91	92	70-130	1	20			
1,2-Dichloropropane	ug/L	<0.23	50	50	49.0	48.7	98	97	70-130	1	20			
1,3-Dichlorobenzene	ug/L	<0.50	50	50	45.4	47.2	91	94	70-131	4	20			
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.1	47.7	94	95	70-130	1	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

Parameter	Units	40149183001		1499953		1499954		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<0.50	50	50	52.0	52.5	104	105	57-138	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	48.4	49.0	97	98	70-130	1	20		
Bromoform	ug/L	<0.50	50	50	45.9	48.0	92	96	70-130	4	20		
Bromomethane	ug/L	<2.4	50	50	40.4	42.6	81	85	33-130	5	27		
Carbon tetrachloride	ug/L	<0.50	50	50	51.4	50.8	103	102	70-138	1	20		
Chlorobenzene	ug/L	<0.50	50	50	47.8	50.0	96	100	70-130	5	20		
Chloroethane	ug/L	<0.37	50	50	37.1	37.2	74	74	51-130	0	20		
Chloroform	ug/L	<2.5	50	50	49.6	50.2	99	100	70-130	1	20		
Chloromethane	ug/L	<0.50	50	50	51.4	51.0	103	102	25-132	1	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.6	46.8	93	94	61-140	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	48.9	49.1	98	98	70-130	1	20		
Dibromochloromethane	ug/L	<0.50	50	50	46.6	48.7	93	97	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	52.6	52.8	105	106	23-130	0	20		
Ethylbenzene	ug/L	<0.50	50	50	53.0	55.0	106	110	70-138	4	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.1	55.7	108	111	70-152	3	20		
m&p-Xylene	ug/L	<1.0	100	100	108	110	108	110	70-140	2	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.8	45.2	90	90	66-139	1	20		
Methylene Chloride	ug/L	<0.23	50	50	43.6	43.6	87	87	70-130	0	20		
o-Xylene	ug/L	<0.50	50	50	53.4	54.6	107	109	70-134	2	20		
Styrene	ug/L	<0.50	50	50	49.4	51.3	99	103	70-138	4	20		
Tetrachloroethene	ug/L	3.7	50	50	52.3	54.1	97	101	70-148	3	20		
Toluene	ug/L	<0.50	50	50	51.5	53.5	103	107	70-130	4	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	45.8	45.9	92	92	70-133	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	43.3	45.4	87	91	69-130	5	20		
Trichloroethene	ug/L	<0.33	50	50	51.6	52.5	103	105	70-131	2	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	48.3	48.5	97	97	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	51.2	50.0	102	100	49-133	2	20		
4-Bromofluorobenzene (S)	%						99	100	70-130				
Dibromofluoromethane (S)	%						103	101	70-130				
Toluene-d8 (S)	%						97	101	70-130				

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QUALIFIERS

Project: 42-1-37409 UNITED DRY CLEANERS

Pace Project No.: 40149183

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 UNITED DRY CLEANERS

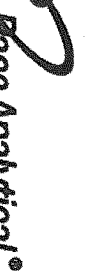
Pace Project No.: 40149183

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40149183001	MW-10	EPA 8260	254337		
40149183002	TRIP BLANK	EPA 8260	254337		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

[Signature]

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	MARK MCGILGUCH
Mail To Company:	SHAWNOFF WILSON
Mail To Address:	

Y/N	Pick Letter	ANALYSES REQUESTED
NO	B	Asbestos
		Asbestos

Company Name: SHAWNOFF WILSON, INC.
 Branch/Location: MADISON, WI
 Project Contact: MARK MCGILGUCH
 Phone: 608/442-5223
 Project Number: 42-1-37409
 Project Name: WINDY DR CLEANUPS
 Project State: WISCONSIN
 Sampled By (Print): MARK S. MCGILGUCH
 Sampled By (Sign): *[Signature]*
 PO #:

Data Package Options (billable) EPA Level III EPA Level IV
MS/MSD (billable) On your sample (billable) NOT needed on your sample
Matrix Codes
 A=Air B=Biota C=Charcoal O=Oil S=Soil SI=Sludge
 W=Water DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water WP=Wipe

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED	Y/N	PICK LETTER
		DATE	TIME				
001	MW-10	05/1/9	1030	GD	Asbestos		
002	TRIP BLANK						

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: *[Signature]* Date/Time: 05-01-12 1415
 Relinquished By: *[Signature]* Date/Time: 05-01-12 1415
 Relinquished By: *[Signature]* Date/Time: 05-01-12 1415

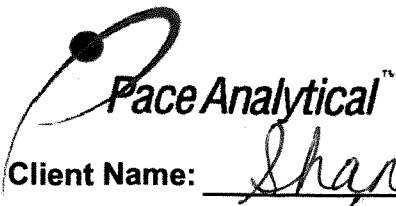
Received By: *[Signature]* Date/Time: 5-1-12 1415
 Received By: *[Signature]* Date/Time: 5-1-12 1415
 Received By: *[Signature]* Date/Time: 5-1-12 1415

PACE Project No.
 4049183
 Receipt Temp = *RDT* °C
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt

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



Project #: **WO# : 40149183**

Client Name: Shannon + Wilson



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: ROI / Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no no

Person examining contents:
Date: 5-17-17
Initials: SW

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

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 & 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. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≥2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input 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>381</u>	<u>5-17-17</u>	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RNW for DN Date: 5/11/17

Attachment B

**Laboratory Report
May 2017
Soil Gas Samples**

May 12, 2017

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

RE: Project: 42-1-37409 United Dry Cleaner
Pace Project No.: 10387022

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2017. 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,



Sarah Platzer
sarah.platzer@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10387022001	VP-1	Air	05/01/17 11:45	05/02/17 10:00
10387022002	VP-2	Air	05/01/17 12:35	05/02/17 10:00
10387022003	VP-3	Air	05/01/17 12:35	05/02/17 10:00
10387022004	VP-4	Air	05/01/17 13:35	05/02/17 10:00
10387022005	Indoor Air	Air	05/01/17 17:15	05/02/17 10:00
10387022006	Background	Air	05/01/17 17:15	05/02/17 10:00
10387022007	Dup #1	Air	05/01/17 12:35	05/02/17 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10387022001	VP-1	TO-15	NCK	5
10387022002	VP-2	TO-15	CH1, NCK	5
10387022003	VP-3	TO-15	NCK	5
10387022004	VP-4	TO-15	NCK	5
10387022005	Indoor Air	TO-15	NCK	5
10387022006	Background	TO-15	NCK	5
10387022007	Dup #1	TO-15	CH1, NCK	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

Sample: VP-1 Lab ID: 10387022001 Collected: 05/01/17 11:45 Received: 05/02/17 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.34	ug/m3	1.1	0.34	1.39		05/05/17 00:31	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/m3	1.1	0.53	1.39		05/05/17 00:31	156-60-5	
Tetrachloroethene	52.3	ug/m3	0.96	0.39	1.39		05/05/17 00:31	127-18-4	
Trichloroethene	<0.38	ug/m3	0.76	0.38	1.39		05/05/17 00:31	79-01-6	
Vinyl chloride	<0.27	ug/m3	0.36	0.27	1.39		05/05/17 00:31	75-01-4	

Sample: VP-2 Lab ID: 10387022002 Collected: 05/01/17 12:35 Received: 05/02/17 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		05/05/17 01:02	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		05/05/17 01:02	156-60-5	
Tetrachloroethene	1150	ug/m3	18.5	7.5	26.8		05/05/17 19:22	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		05/05/17 01:02	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		05/05/17 01:02	75-01-4	

Sample: VP-3 Lab ID: 10387022003 Collected: 05/01/17 12:35 Received: 05/02/17 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		05/05/17 01:34	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		05/05/17 01:34	156-60-5	
Tetrachloroethene	262	ug/m3	0.92	0.37	1.34		05/05/17 01:34	127-18-4	
Trichloroethene	0.92	ug/m3	0.74	0.37	1.34		05/05/17 01:34	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		05/05/17 01:34	75-01-4	

Sample: VP-4 Lab ID: 10387022004 Collected: 05/01/17 13:35 Received: 05/02/17 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		05/05/17 02:07	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		05/05/17 02:07	156-60-5	
Tetrachloroethene	161	ug/m3	0.92	0.37	1.34		05/05/17 02:07	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		05/05/17 02:07	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		05/05/17 02:07	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

Sample: Indoor Air									
		Lab ID: 10387022005	Collected: 05/01/17 17:15			Received: 05/02/17 10:00		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.34	ug/m3	1.1	0.34	1.39		05/04/17 22:55	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/m3	1.1	0.53	1.39		05/04/17 22:55	156-60-5	
Tetrachloroethene	4.4	ug/m3	0.96	0.39	1.39		05/04/17 22:55	127-18-4	
Trichloroethene	0.54J	ug/m3	0.76	0.38	1.39		05/04/17 22:55	79-01-6	
Vinyl chloride	<0.27	ug/m3	0.36	0.27	1.39		05/04/17 22:55	75-01-4	

Sample: Background									
		Lab ID: 10387022006	Collected: 05/01/17 17:15			Received: 05/02/17 10:00		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		05/04/17 23:28	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		05/04/17 23:28	156-60-5	
Tetrachloroethene	1.7	ug/m3	0.92	0.37	1.34		05/04/17 23:28	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		05/04/17 23:28	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		05/04/17 23:28	75-01-4	

Sample: Dup #1									
		Lab ID: 10387022007	Collected: 05/01/17 12:35			Received: 05/02/17 10:00		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.34		05/04/17 23:59	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.1	0.51	1.34		05/04/17 23:59	156-60-5	
Tetrachloroethene	1190	ug/m3	23.3	9.4	33.77		05/05/17 18:55	127-18-4	
Trichloroethene	<0.37	ug/m3	0.74	0.37	1.34		05/04/17 23:59	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.35	0.26	1.34		05/04/17 23:59	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

QC Batch: 472224 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10387022001, 10387022002, 10387022003, 10387022004, 10387022005, 10387022006, 10387022007

METHOD BLANK: 2576547 Matrix: Air
 Associated Lab Samples: 10387022001, 10387022002, 10387022003, 10387022004, 10387022005, 10387022006, 10387022007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	05/04/17 10:42	
Tetrachloroethene	ug/m3	<0.28	0.69	05/04/17 10:42	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	05/04/17 10:42	
Trichloroethene	ug/m3	<0.28	0.55	05/04/17 10:42	
Vinyl chloride	ug/m3	<0.20	0.26	05/04/17 10:42	

LABORATORY CONTROL SAMPLE: 2576548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.9	41.8	95	70-133	
Tetrachloroethene	ug/m3	72.4	74.5	103	70-130	
trans-1,2-Dichloroethene	ug/m3	41.9	42.2	101	70-131	
Trichloroethene	ug/m3	57.9	59.9	104	70-130	
Vinyl chloride	ug/m3	27	29.0	107	70-130	

SAMPLE DUPLICATE: 2577001

Parameter	Units	10387228002 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
Tetrachloroethene	ug/m3	1.2	1.3	7	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.62		25	
Trichloroethene	ug/m3	ND	0.82J		25	
Vinyl chloride	ug/m3	ND	<0.31		25	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37409 United Dry Cleaner

Pace Project No.: 10387022

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 Cleaner

Pace Project No.: 10387022

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10387022001	VP-1	TO-15	472224		
10387022002	VP-2	TO-15	472224		
10387022003	VP-3	TO-15	472224		
10387022004	VP-4	TO-15	472224		
10387022005	Indoor Air	TO-15	472224		
10387022006	Background	TO-15	472224		
10387022007	Dup #1	TO-15	472224		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10387022

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: SHANNON & WILSON, INC. Report To: MARK MCGILLOCH
 Address: 6506 SUPERIOR ROAD Copy To: —
 MADISON, WI 53711 Purchase Order No.: —
 Email To: mcmeshanwil.com Project Name: United Dry Cleaners
 Phone: 6081442523 Fax: — Project Manager/Sales Rep: —
 Requested Due Date/TAT: Project Number: 42-1-3749 Pace Profile #: —

23308 Page: 1 of 1

Section D Required Client Information

Valid Media Codes: MEDIA (Tealbar Bag, 1 Liter Summa Can, 6 Liter Summa Can, Low Volume Puff, High Volume Puff, Other), CODE (TB, TLC, eLC, LVP, HVP, PM10)

AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

VP-1
 VP-2
 VP-3
 VP-4
 INDOOR AIR
 BACKGROUND
 DUP #1

ITEM #	MEDIA	PMD Reading (Client only)	COLLECTED		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:	Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact
			DATE	TIME										
1	VP-1	66	05/01/12	1100	28	0	0075	FC06644	PM10	5/1/12	1930	Y/N	Y/N	Y/N
2	VP-2		05/01/12	1105	28	0	1494	FC06677	TO-15 Short List	5/1/12	1930	Y/N	Y/N	Y/N
3	VP-3		05/01/12	1205	28	0	0634	FC1237	TO-14	5/1/12	1930	Y/N	Y/N	Y/N
4	VP-4		05/01/12	1240	30	0	0695	FC0614	TO-4 (Methane)	5/1/12	1930	Y/N	Y/N	Y/N
5	INDOOR AIR		05/01/12	1715	29	0	2309	FC0047	TO-3	5/1/12	1930	Y/N	Y/N	Y/N
6	BACKGROUND		05/01/12	1715	29	0	2308	FC0213	TO-3	5/1/12	1930	Y/N	Y/N	Y/N
7	DUP #1		05/01/12	1105	28	0	1579	FC06677	TO-3	5/1/12	1930	Y/N	Y/N	Y/N

Comments: MARK S MCGILLOCH - SUE 5/1/12 1930
 ERIC PACE 5/1/12 1000

RELINQUISHED BY / AFFILIATION DATE TIME
 MARK S MCGILLOCH - SUE 5/1/12 1930 FIDEX
 ERIC PACE 5/1/12 1000

ACCEPTED BY / AFFILIATION DATE TIME
 MARK S MCGILLOCH 5/1/12 1930
 ERIC PACE 5/1/12 1000

SAMPLER NAME AND SIGNATURE
 PRINT NAME: MARK S. MCGILLOCH
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED (MM/DD/YYYY):

ORIGINAL

Air Sample Condition Upon Receipt

Client Name:

Shannon Wilson

Project #:

WO#: 10387022



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

Tracking Number: 73009904 0365, 0376

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

Optional: Proj. Due Date: Proj. Name:

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: EN 5/2/17

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: IT-Filing FFT

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: Swah Porter

Date: 5/2/2017

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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022001 ProjSampleNum: 10387022001 Date Collected: 05/01/17 11:45
 Client Sample ID: VP-1 Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.084	ppbv	0.27	0.084	05/05/17 0:31	NCK 156-59-2	
Tetrachloroethene	7.6	ppbv	0.14	0.057	05/05/17 0:31	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/05/17 0:31	NCK 156-60-5	
Trichloroethene	<0.07	ppbv	0.14	0.07	05/05/17 0:31	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.14	0.1	05/05/17 0:31	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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022002 ProjSampleNum: 10387022002 Date Collected: 05/01/17 12:35
 Client Sample ID: VP-2 Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	0.082	05/05/17 1:02	NCK 156-59-2	
Tetrachloroethene	167	ppbv	2.7	1.1	05/05/17 19:22	CH1 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/05/17 1:02	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	0.068	05/05/17 1:02	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	0.1	05/05/17 1:02	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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022003 ProjSampleNum: 10387022003 Date Collected: 05/01/17 12:35
 Client Sample ID: VP-3 Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	0.082	05/05/17 1:34	NCK 156-59-2	
Tetrachloroethene	38	ppbv	0.13	0.054	05/05/17 1:34	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/05/17 1:34	NCK 156-60-5	
Trichloroethene	0.17	ppbv	0.14	0.068	05/05/17 1:34	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	0.1	05/05/17 1:34	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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022004 ProjSampleNum: 10387022004 Date Collected: 05/01/17 13:35
 Client Sample ID: VP-4 Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	0.082	05/05/17 2:07	NCK 156-59-2	
Tetrachloroethene	23.4	ppbv	0.13	0.054	05/05/17 2:07	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/05/17 2:07	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	0.068	05/05/17 2:07	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	0.1	05/05/17 2:07	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
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

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

Lab Project Number: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022005 ProjSampleNum: 10387022005 Date Collected: 05/01/17 17:15
 Client Sample ID: Indoor Air Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.084	ppbv	0.27	0.084	05/04/17 22:55	NCK 156-59-2	
Tetrachloroethene	0.64	ppbv	0.14	0.057	05/04/17 22:55	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/04/17 22:55	NCK 156-60-5	
Trichloroethene	0.099J	ppbv	0.14	0.07	05/04/17 22:55	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.14	0.1	05/04/17 22:55	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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022006 ProjSampleNum: 10387022006 Date Collected: 05/01/17 17:15
 Client Sample ID: Background Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	0.082	05/04/17 23:28	NCK 156-59-2	
Tetrachloroethene	0.25	ppbv	0.13	0.054	05/04/17 23:28	NCK 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/04/17 23:28	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	0.068	05/04/17 23:28	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	0.1	05/04/17 23:28	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: 10387022
 Project Name: 42-1-37409 United Dry Cleaner

Lab Sample No: 10387022007 ProjSampleNum: 10387022007 Date Collected: 05/01/17 12:35
 Client Sample ID: Dup #1 Matrix: Air Date Received: 05/02/17 10:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.27	0.082	05/04/17 23:59	NCK 156-59-2	
Tetrachloroethene	173	ppbv	3.4	1.4	05/05/17 18:55	CH1 127-18-4	
trans-1,2-Dichloroethene	<0.13	ppbv	0.27	0.13	05/04/17 23:59	NCK 156-60-5	
Trichloroethene	<0.068	ppbv	0.14	0.068	05/04/17 23:59	NCK 79-01-6	
Vinyl chloride	<0.1	ppbv	0.13	0.1	05/04/17 23:59	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: 10387022
Project Name: 42-1-37409 United Dry Cleaner

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Units Conversion Request

Date: 5/12/2017

Page 8

Attachment C

Dry Cleaning Chemical Disposal Documentation

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WID981788508	2. Page 1 of 1	3. Emergency Response Phone 1-800-468-1760	4. Manifest Tracking Number 005713845 SKS			
5. Generator's Name and Mailing Address United Cleaners 623 Reed Avenue MANITOWOC Generator's Phone: 920-682-8282				Generator's Site Address (if different than mailing address) WI 54220-0000				
6. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS INC				U.S. EPA ID Number TXR000081205				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CLEAN HARBORS DEER PARK 2027 INDEPENDENCE PARKWAY SOUTH LA PORTE, TX 77571 Facility's Phone: 281-930-2300				U.S. EPA ID Number TXD035141378				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN2810 WASTE TOXIC LIQUID, ORGANIC N.O.S. (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) 6.1 PGIII RQ(F002)	1	DF	100	P	F002	D007	D039
X	2. UN2810 Waste Toxic Liquid, Organic N.O.S. (Tetrachloroethylene, Trichloroethylene) 6.1 PGIII RQ(F002)	2	DM	450	P	F002	D017	D127
	3.							
	4.							
14. Special Handling Instructions and Additional Information TSD:DE 73278653 UN46795 201713 C86:0 1)ERG#153; 24 HR EMERGENCY # 800-468-1760 (SAFETY-KLEEN) AUTH AS AGENT FOR BY GEN TO USE SHIP CARRIERS; PLATE# 0200 1R1E67 610010 1R 000010 00								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 3 30 17		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 3 30 17		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. _____		2. _____		3. _____		4. _____		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name _____				Signature _____		Month Day Year _____		

SK Shipping #: 221987812
 Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR part 268 land disposal restrictions (LDR).

A. GENERAL WASTE NOTIFICATION

LDR FORM LINE NO: 1 MANIFEST PAGE/LINE# 01/001 SKPRFL NO: 150589
 SKDOT#: 7050108

EPA WASTE CODES & LDR SUBCATEGORIES (IF ANY):
 D007 TCLP TOXICITY BASED ON TCLP (SW846)
 D039
 D040
 F002

Treatability group: NWW Non-Wastewater
 Waste Constituent Notification:

Legend

Number	Constituent
91	CHLOROFORM
118	P-DICHLOROBENZENE
165	HEXACHLOROBUTADIENE
229	TETRACHLOROETHYLENE
237	TRICHLOROETHYLENE
250	CADMIUM
251	CHROMIUM (TOTAL)
255	LEAD
260	SILVER

NOTES

EXP NOTICE: THIS LDR EXPIRES ON 12/31/2017

Joseph M. Tunc
 GENERATOR'S AUTHORIZED SIGNATURE

NAME & TITLE (PRINTED OR TYPED)
 CSB: 0 REF#: 73278653
 MIDDLE COPY: FACILITY

3 / 30 / 17
 DATE

PLANT: KSU SW: 201713
 TOP COPY: GENERATOR BOTTOM COPY: TRANSFER