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Ms. Jennifer Borski WISCONSIN DEPARTMENT OF NATURAL RESOURCES 625 East County Road Y, Suite 700 Oshkosh, WI 54901-9731

RE: Vapor Intrusion Investigation Results Donaldson's One Hour Cleaners 110 West Cecil Street, Neenah, Wisconsin BRRTS #02-71-110797

Dear Ms. Borski:

July 24, 2013

On behalf of H&J Investments, Robert E. Lee & Associates, Inc. (REL) has completed a vapor intrusion (VI) investigation for a chlorinated volatile organic compound (CVOC) release identified at Donaldson's One Hour Cleaners, 110 West Cecil Street, Neenah, Wisconsin (the Site). This letter report presents the site location and description, methodologies and results of the VI investigative activities completed by REL, and provides conclusions/recommendations.

SITE LOCATION AND DESCRIPTION

The Site currently a dry cleaner (a dry store), which is located within a mini-mall owned by H&J Investments. Dry cleaning processes at the Site ceased during early 2012. The mini-mall is also occupied by The Village Clippers (a hair salon) and All Sport Trophy & Engraving (a trophy shop). The Site is located in the northeast quarter of the northeast quarter of Section 33, Township 20 North, Range 17 East in the City of Neenah, Winnebago County, Wisconsin. The Wisconsin Transverse Mercater coordinates for the Site are 642678, 411981.

The Site is located in a mixed commercial and residential area. West Cecil Street borders the Site to the north followed by primarily residential property and a gasoline station, which is located at the northwest corner of West Cecil and South Commercial Street. Cranky Pat's Pizzeria & Pub is located immediately east and Cranky Pat's Frozen Pizza Factory is located immediately southeast of the Site, followed by South Commercial Street and a vacant lot former occupied by Gunderson Cleaners (BRRTS #02-71-108446). A residential area is located west of the Site. A building formerly occupied by a NAPA auto parts store and machine shop and currently occupied by Fastenal, a fastener/parts store, is located south of the Site, followed by Curtis Avenue. A layout of the Site and surrounding area is shown in Figure 1.

CVOC contamination was identified at the Site during completion of a Phase II Environmental Site Assessment in 1995. Investigation and remediation of the CVOC release was initiated in 1999 upon establishment of the Dry Cleaner Environmental Response Fund (DERF). Various investigation and remediation activities have been conducted at the Site. Investigative and remedial activities include the installation of multiple soil borings, monitoring wells and piezometers, excavation of accessible source area soil, operation of a groundwater pump and treat system and soil vapor extraction (SVE) system, collection of multiple rounds of groundwater samples, and previous sub-slab vapor sampling at 109 West Cecil Street (Julius residence).

In accordance with WDNR's December 2012 guidance for *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*, the WDNR required additional investigation of the vapor intrusion pathway at the Site. In electronic email correspondence to REL on October 8, 2012, the WDNR provided a minimum scope of work for the vapor intrusion investigation. Subsequently, REL submitted a *Vapor Intrusion Investigation Workplan* to evaluate potential vapor intrusion impacts to buildings nearest the source area of the Site and a proposed cost estimate (dated March 15, 2013) to the WDNR. On May 13, 2013, the WDNR approved the workplan and the cost.

FIELD METHODOLOGIES

Building Background Conditions Screening

Prior to collecting samples, REL obtained access to the following four commercial properties for the vapor intrusion investigation:

- 110 West Cecil Street (the Site), which is occupied by one building that houses Donaldson's One Hour Cleaners, The Village Clippers, and All Sport Trophy & Engraving
- 109 Curtis Avenue, which is occupied by one building that houses Fastenal
- 905 S. Commercial Street, which is occupied by one building that houses Cranky Pat's Pizzeria & Pub
- 911 S. Commercial Street, which is occupied by one building that houses Cranky Pat's Frozen Pizza Factory

REL conducted a survey of each building to obtain information on the building construction and interior layout; and to identify and inventory materials that could potentially contribute to indoor air conditions, unrelated to VI. Many common items that may affect the quality of indoor air in buildings, such as commercially available cleaners and degreasers, small quantities of small engine fuel, furniture polish, cigarette smoke, etc., were noted during the surveys. In addition, a visual inspection of pre-determined approximate sample locations was performed to locate potential vapor migration conduits such as sewer laterals and floor drains prior to final placement of sub-slab vapor sampling ports. The building surveys were conducted on May 31, 2013 and the surveys of Cranky Pat's Pizzeria & Pub and Cranky Pat's Frozen Pizza Factory were performed on June 11, 2013.

A person with knowledge of the daily operations in each building was interviewed regarding entry and access to the spaces where sampling will take place and whether these spaces will be subject to foot traffic or any other degree of occupation. The layout of the building interior areas was examined and a simple sketch was prepared in the field to assist in the selection of indoor air and vapor sampling locations. The configuration of the structure's heating ventilation and air conditioning (HVAC) system was also assessed to gather information pertaining to air circulation and exchange conditions in the space. A visual inspection was conducted for cracks or other penetration of the concrete floor (i.e., floor drains, sumps, etc.) that could be direct conduits for impacted vapors to migrate into the occupied space.

After completion of the building surveys, REL corresponded verbally with the WDNR to select the preferred sub-slab vapor and indoor air sample locations for each building. With the exception of the selected sample location within the restaurant dining room of Cranky Pat's Pizzeria & Pub, the samples were placed in the areas of each building as discussed with the WDNR. The sample location within the restaurant dining room was moved because the property owner restricted drilling through the dining room floor to one location allowed behind the bar, which was located on the south exterior wall of the building near the central part of the wall. Subsequently, this was the location that sub-slab sample (SSV-6) was placed. The paired indoor air sample (IA-6) was collected approximately 10–15 feet from the sub-slab location, on the north side of the bar. The canister was placed on a dining room table.

Summary of Vapor Intrusion Investigation Activities

On June 11, 12 and 17, 2013, REL mobilized to the Site and performed the VI investigation sampling activities in accordance with the methodologies presented in the *Vapor Intrusion Investigation Workplan*, dated March 15, 2013 and the *Amendment to the Vapor Intrusion Workplan*, dated May 13, 2013. The actual number of samples collected from each building was later determined after the building surveys were completed and the details on the building construction and layouts were conveyed verbally to the WDNR.

Sampling included the collection of eight sub-slab vapor samples, eight indoor air samples, and five outdoor air samples. Seven of the sub-slab vapor and indoor air samples were paired. A summary of all samples, locations, and dates collected are detailed in Table 1. Sample locations are shown in Figure 1. Further detail on the sample locations in relation to the layout of the buildings is shown on the sampling field forms included in Attachment A. Photographs taken at each sample location after or during sample collection are included in Attachment B.

Indoor and Outdoor Air Sampling

Indoor air samples were collected in conjunction with sub-slab vapor sampling to determine if airborne contaminants within the buildings are present at concentrations in excess of health protective levels. Indoor air samples were collected prior to installation of the sub-slab soil Vapor Pins[™] in order to prevent escape of vapor through the sub-slab ports, which could skew the indoor air sampling results. In accordance with concurrence from the WDNR, eight indoor air samples (IA-1, IA-2, and IA-4 through IA-9) were collected from within the four buildings at the locations shown on Figure 1 and in photographs included as Attachment B. The samples

were collected from the breathing zone, approximately 3 - 5 feet above floor level. In addition, five outdoor (ambient) air samples (OA-1 through OA-5) were collected from upwind of the prevailing wind direction on the day of indoor air sampling. If there was not a prevailing wind, the outdoor samples were collected from within the alley area where the Donaldson's One Hour Cleaners building converges with Fastenal, Cranky Pat's Pizzeria and Pub, and Cranky Pat's Frozen Pizza Factory building corners. Canisters for samples OA-2 through OA-5 were placed beneath a canopy during sample collection due to potential rain. Wind direction on each day of sampling is recorded on the sampling field forms. The outdoor air sample locations are shown in Figure 1 and in photographs included as Attachment B.

All air samples were collected over an 8-hour period using a 6-L Summa[™] canister that is individually-certified clean and calibrated regulators supplied by the laboratory for quality assurance. Weather data including, temperature, wind speed, wind direction, humidity, barometric pressure, and rainfall, were assessed from the nearest weather station through the 8-hour sampling period. Samples were collected so as to maintain a minimal residual pressure in the Summa[™] canister of -2 to -5 inches of Hg. Also, initial and final pressure readings were collected from the Summa[™] canisters. This information was recorded on the sampling field forms included in Attachment A and the laboratory chain-of-custody forms included in Attachment C.

Following sampling activities, the indoor and outdoor air samples were submitted to Pace Analytical Services, Inc. of Minneapolis, Minnesota (Pace) under appropriate chain-of-custody procedures for analysis of cis-1,2-dichloroethlene (cis-1,2-DCE), trans-1,2- dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), tricloroethene (TCE), and vinyl chloride using US EPA Method TO-15.

Sub-Slab Vapor Port Installation

Following the collection of indoor air samples, eight sub-slab soil Vapor Pins[™] were installed at each sub-slab sampling location for the collection of vapor samples (SSV-1 through SSV-6, SSV-8, and SSV-9). The Vapor Pins[™] were installed just below the surface of the slab by first drilling a 1¹/₂-inch diameter hole to approximately 1¹/₂-inches below the surface of the concrete. Then a 5/8-inch diameter hole was drilled through the concrete slab using an electric impact drill. A shop vac with a HEPA filter was used during drilling to remove concrete dust produced during the process. Vapor Pin[™] sub-slab vapor sampling ports, constructed with a silicon sleeve to provide a mechanical seal between the sample port and the slab, were installed using a dead blow The probes were capped during installation until sampling is initiated. hammer. Upon completion of vapor sampling, with the exception of one Vapor Pin[™], all the Vapor Pins[™] were capped with either a stainless steel or a standard plastic flushmount cover and remain in place in the buildings. Vapor Pin[™] for sample SSV-8, (located in the basement of Cranky Pat's Pizzeria and Pub) was removed immediately following sampling and plugged with hydraulic concrete due to the close proximity to the groundwater table at the Site.

Sub-Slab Quality Control Methods

Prior to collection of the sub-slab vapor samples, each Vapor Pin [™] was tested for leaks and purged to ensure that the vapor samples are representative of subsurface vapor conditions. The leak testing included a leak-check of the sample point and a "shut-in" test of the sample train. Leak testing was performed in general accordance with methods presented in REL's *Standard Operating Procedure 11: Sub-Slab Vapor Sample Collection*, which was provided along with the VI workplan for the Site.

Purging of the sample point and the leak test were performed simultaneously. As part of the leak-check of the sample point, a shroud was installed over the Vapor Pin^{TM} and helium was used as a tracer gas during purging to identify potential leaks at the interface between the Vapor Pin^{TM} and concrete floor. Helium was introduced to the inside of the shroud to a concentration of at least 20% to 50% as measured by a helium meter. No detections of helium were observed during the quality control checks at each sampling port, indicating that no leaks were present within the installed sample port. Purged air was also field-screened for organic vapors using a photoionization detector (PID). Field-screening of the purged air at each sample port did not produced PID readings of greater than 1 part per million (ppm). The concentrations are recorded on the field sampling forms included in Attachment A.

Following successful completion of the helium leak test, the integrity of the sample tubing and fittings (i.e., sample train) was tested by conducting a "shut-in" test. All valves on the sampling train, except the one leading to the vacuum pump were closed. A negative pressure ranging from 20 to 25 inches of mercury (Hg) was induced on the sampling train with a vacuum pump and held for approximately 1 minute while the gauge was visually monitored. No pressure drops were noted during the negative pressure testing, indicating no leaks were present in the sample trains prior to the collection of vapor samples. Quality assurance/quality control (QA/QC) results were recorded on the field sampling forms included in Attachment A.

Sub-Slab Vapor Sampling

A total of eight sub-slab vapor samples (SSV-1 through SSV-6, SSV-8, and SSV-9) were collected from within the four buildings at the locations shown on Figure 1 and as described on Table 1. A vacuum pump was utilized to extract approximately 3 tubing volumes of ambient air from the tubing prior to initiating sample collection. Following purging, sub-slab vapors at each point were drawn from the end of HDPE tubing (which was also connected to the Vapor PinTM) into a 6-liter capacity SummaTM canister fitted with laboratory supplied regulators that allow a flow rate of 200 milliliters per minute producing an approximate 30 minute sample time.

The laboratory provided the Summa[™] canisters, flow controllers, and vacuum gauges, all labeled with unique numbers and with instructions for proper assembly in the field. The unique number of each canister, flow controller and vacuum gauge were recorded on the field data sheets for each sample collected. Canisters, flow controllers and vacuum gauges were used for only one sample.

All SummaTM canisters were individually-certified initially by the laboratory for quality assurance purposes. Initial vacuums of the SummaTM canisters, as measured at the laboratory, measured between -24 and -30 inches Hg. At the conclusion of the sampling interval, at least -2 to -5 inches Hg of vacuum was left to confirm that there is no leakage within the canister during the transit back to the laboratory. REL personnel recorded sample identification (ID) name, initial and final vacuum gauge numbers, initial and final sampling times, canister and flow controller serial numbers, and other pertinent information on the field data sheets and laboratory chain-of-custody forms.

The vapor samples were submitted under appropriate chain-of-custody protocol to Pace for analysis of cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and vinyl chloride using US EPA Method TO-15.

APPLICABLE ACTION LEVEL CRITERIA

The WDNR guidance document PUB-RR-800 for *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*, establishes action levels and risk screening levels for indoor air, sub-slab vapor, and soil gas vapor quality in residential and non-residential settings (which have been adopted from the US EPA).

The sub-slab vapor and indoor air sample laboratory analytical results have been compared the established vapor risk screening levels (VRSL) for individual compounds for sub-slab vapor samples and the vapor action levels (VAL) for individual compounds for indoor air samples. The VRSLs and VALs have been established based on residential and non-residential land use. The present land use at the Site and on the properties evaluated for VI are used commercially; therefore, the VRSLs and VALs established for non-residential properties will be used as the applicable criteria.

When sub-slab vapor or indoor air sample concentrations exceed a VRSL or a VAL, respectively, all lines of evidence will be evaluated to determine the likely source of the contamination, such as pathways for vapor movement and the effect on receptors. If after assessing the lines of evidence, it is determined that vapor intrusion poses a threat to building occupants action will be taken to address the source of the hazardous substance discharge in accordance with ss. 292,11(3), Wisconsin Stats. This may require remediating, to the extent practical, the source of the contamination in order to address long-term risk and interrupting the vapor intrusion pathway to address near-term and protect receptors.

VAPOR INTRUSION INVESTIGATION RESULTS

Indoor Air Sampling

Concentrations of PCE, TCE, and trans-1,2 DCE were detected in the indoor air samples. Most notably, TCE was detected above the non-residential VAL in sample IA-2 collected from The Village Clippers space of the Site Building. However, since concentrations of TCE were not detected in paired sub-slab vapor sample SSV-2, the source of the TCE in the indoor air sample may be attributed to another source other than vapor intrusion from the sub-slab at that location.

In addition, a low level concentration of TCE was also detected in outdoor air sample OA-1 this day.

A combination of PCE, TCE and trans-1,2 DCE were detected in indoor air samples IA-1, IA-2, IA-4, IA-5, IA-7, and IA-8 collected from within the Site building (All Sport Trophy & Engraving and The Village Clippers), Fastenal, and the basement of Cranky Pat's Pizzeria & Pub; however, the concentrations were below the VALs for non-residential settings.

CVOCs were not detected in indoor air samples IA-6 and IA-9, collected from within the dining room of Cranky Pat's Pizzeria & Pub and Cranky Pat's Frozen Pizza Factory, respectively. The indoor air analytical results are summarized on Table 1. The laboratory analytical reports are included in Attachment C.

Outdoor Air Sampling

Low levels of PCE and TCE were detected in the outdoor air samples (OA-1, OA-3, and OA-5) collected on each day. Most notably, PCE and/or TCE were detected in both outdoor air samples (OA-3 and OA-5) collected on the south side of Donaldson's One Hour Cleaners, where it converges with the Cranky Pat's Pizzeria, and Fastenal buildings. The outdoor air analytical results are summarized on Table 1. The laboratory analytical reports are included in Attachment C.

Sub-Slab Vapor Sampling

Concentrations of PCE, TCE, Cis-1,2 DCE and trans-1,2 DCE were detected in each of the subslab vapor samples. Most notably, PCE and TCE were detected above the non-residential VRSL in sub-slab vapor samples SSV-3 and SSV-8. Sample SSV-3 was collected from beneath the slab-on-grade floor of Donaldson's One Hour Cleaners, near the location of the former dry cleaning machines and a floor drain. Sample SSV-8 was collected from the beneath the basement floor of Cranky Pat's Pizzeria & Pub, near the west foundation wall closest to the Site. A crack was observed in the basement wall and floor near the sample location.

The elevated concentrations of PCE and TCE in excess of the VRSL in sub-slab vapor samples collected from Donaldson's One Hour Cleaners and the basement of Cranky Pat's Pizzeria, suggests a potential VI concern for these overlying structures. However, PCE and TCE were not detected in excess of the VAL in the paired indoor air sample collected within the basement of Cranky Pat's Pizzeria & Pub, which suggests that the vapors from the sub-slab are not adversely impacting indoor air quality. A paired-indoor air sample was not collected from with the Donaldson's One Hour Cleaners space, per WDNR directive.

Concentrations of PCE, TCE, and Cis-1,2 DCE were not detected in excess of the non-residential VRSLs in any of the other sub-slab vapor samples. The sub-slab vapor analytical results are summarized on Table 1. The laboratory analytical reports are included in Attachment C.

CONCLUSIONS AND RECOMMENDATIONS

The presence of the dry cleaning related compounds in the sub-slab vapor samples collected from Donaldson's One Hour Cleaners and from the basement of Cranky Pat's Pizzeria poses a potential vapor intrusion concern in these two structures. Upon review of the results by the WDNR, REL recommends that options for further evaluation of the VI pathway, such as repeat indoor air and vapor sampling event during the winter months, within these two structures be discussed amongst the WDNR, REL and H&J Investments so that a plan for vapor mitigation may be developed, if necessary.

Given that there were no exceedances of VALs and VRSLs in samples collected in Fastenal and Cranky Pat's Frozen Pizza Factory, it appears that the investigation of the VI pathway is complete; therefore, no further investigation is recommended within these structures. REL recommends abandonment of the sub-slab Vapor Pins[™] in these structures. Additionally, based on the initial VI investigation findings REL does not recommend VI sampling within any other off-site structures near the Site.

We trust this meets your needs. If you have any questions or comments, please feel free to contact this office.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

icole L. Lallont

Nicole L. LaPlant Senior Project Geologist

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CC/ENC.: Ms. Janice Donaldson, H&J Investments

Bruce D. Mensine

Bruce D. Meissner, PG Environmental Services Manager

TABLE 1 VAPOR AND AIR ANALYTICAL RESULTS SUMMARY DONALDSON'S ONE HOUR CLEANERS, NEENAH, WISCONSIN

				Relevant VOCs (μg/m³)				
Sample ID	Sample Location	Sample Type	Date Collected	PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Indoor Air Vapo	r Action Level (µg/m³)			180	8.8	NA	260	28
Sub-Slab Vapor	Risk Screening Level (µg/m³)			1,800	88	NA	2,600	280
SSV-1	All Sport Trophy & Engraving (First floor,	Sub-slab	6/11/2013	814	ND	ND	ND	ND
IA-1	Cleaners building)	Indoor air		29	ND	ND	ND	ND
SSV-2	The Village Clippers (First floor, central	Sub-slab		706	ND	ND	ND	ND
IA-2	building)	Indoor air		61	22.4	ND	ND	ND
SSV-3	Donaldson's One Hour Cleaners (First floor, east portion of building)	Sub-slab		1,070,000	1,670	334	170	ND
OA-1	West of Donaldson's One Hour Cleaners Building	Outdoor air		ND	1.6	ND	ND	ND
SSV-4	Fastenal (First Floor - Northeast portion of	Sub-slab	6/12/2013	90.1	ND	ND	3.6	ND
IA-4	building)	Indoor air		28.4	4.1	ND	15.8	ND
SSV-5	Fastenal (First Floor - Northwest portion	Sub-slab		69.5	2.2	ND	10.2	ND
IA-5	of building)	Indoor air		17.8	1.3	ND	10.6	ND
OA-2	Southwest of Fastenal	Outdoor air		ND	ND	ND	ND	ND
OA-3	Northeast of Fastenal (Adjacent to Donaldon's One Hour Cleaners)	Outdoor air		28.9	1.3	ND	ND	ND
SSV-6	Cranky Pat's Pizzaria (First Floor -	Sub-slab	6/17/2013	56.5	ND	ND	ND	ND
IA-6	Bar/Dining Area)	Indoor air		ND	ND	ND	ND	ND
IA-7	Cranky Pat's Pizzaria (First Floor - Kitchen Area)	Indoor air		3.4	ND	ND	ND	ND
SSV-8	(Proplet Pat's Direction (Passement)	Sub-slab		11,900	138	152	3.3	ND
IA-8	Cranky Pars Pizzana (Dasement)	Indoor air		8.5	ND	ND	ND	ND
SSV-9	Cranky Pat's Frozen Pizza Factory (First	Sub-slab		25.6	ND	ND	ND	ND
IA-9	Floor)	Indoor air		ND	ND	ND	ND	ND
OA-4	Northeast of Cranky Pat's Buildings	Outdoor air		ND	ND	ND	ND	ND
OA-5	West of Cranky Pat's Buildings (Adj. to Donaldon's One Hour Cleaners)	Outdoor air		3.8	ND	ND	ND	ND

<u>Notes:</u> Sub-slab samples collected using Vapor Pin. Samples analyzed by PACE Analytical.

 $\frac{Key:}{PID} = Photoionization Detector$

 PID = Photoionization Detector
 Sub-slab samples c

 ND = Not detected above laboratory detection limits
 Samples analyzed l

 µg/m3 = Micrograms per cubic meter
 PCE = Tetrachloroethene

 PCE = Tetrachloroethene
 TCE = Trichloroethene

 Cis-1,2 DCE = Cis-1,2 Dichloroethene
 Trans-1,2 DCE = Trans-1,2 Dichloroethene

 138
 = Vapor Risk Screening Level (VRSL) or Vapor Action Level (VAL) exceeded

Figure 1: Vapor Intrusion Sampling Locations



LEGEND

 Outdoor Air Location (~8hr)
 Indoor Air Location (~8hr)
 Sub-Slab Vapor Location (~30 min)

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VAPOR INTRUSION SAMPLING FIELD FORMS

Project Name	Danalds	inn I		Sample Date	6-11-	13
Location/Address	Trophy	Shop		Sample ID		SSV-1
Project No.	4754-	004		Sample Time	Homin	
Client/Contact	H+ T :	Incestiment		Canister ID	252	I
Data Collection Start Date	e(/ -	13		End Date	6-11-13	3
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
1627	- 30	W/SW	8	75	29.86	56
1707	- 4	wisu		<u> </u>	29,83	51%
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Helium Leak Test		Negative F	Pressure Test	
Date/Time Performed: 6~11-13 16'.16 Background He Concentration (ppm)	0	Date/Time Performed:	6-11-13	1625
	100	Negative Pressure of at sampling train	least -15 in. Hg in No	duced on
Shroud He Concentration (%)	$15, \alpha O$		G	
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	0	Did pressure hold?	(Yes)	No
Helium Leak Test Passed: Yes No			\bigcirc	
Notes PID = <1 ppm				
Notes YID = 21 ppm				

Project No.: Project Name: Sample Location: Date: Field Personnel: Recorded by: Project Name: (J-1)-13 KRE, DAE

Weather: <u>کومب (اسب</u> Air Temperature: <u>د به ج</u> Atmospheric Pressure: ک۹.۹۱

<u>,</u>%

Sample Location Observations

HVAC System Operating (Y/N)? No HVAC System type (gas forced air, fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? No Windows Open? No Occupants Smoking? No

Canister Information									
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum	
6-11-13	0906	1547	IA-1	1206	FC0395		-30 in the	-4.5	
		-							
-									

Comments:	4.	Sarple	sist in	y in	Boill.	stime	room,	DOURS	(ميزيا)	Ś	"In Fal	Shirt u	P

IA-1

Project No.: 4754 - 004 Date: 6-11-13 IA-1 q Sample Location/ID: 55U-1 (All Sport Trophy Shop)



Sub-Slab Vapor Field Sampling Form

Project Name	Donaldson	र		Sample Date	6-11-	13
Location/Address	Beauty S	lup		Sample ID		SSV-Z
Project No.	4754-0			Sample Time	38 m'	n A
Client/Contact	H+J:	Enveitments		Canister ID	163	7.
Data Collection Start Date	6-11-13			End Date	6-11	~13
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
17:28	- 29	wsw.	8	75°F	29.86	56
18:000	-5	W S W	9	77°F	29.84	50
No. (1997)						. <u></u>
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Helium Leak Test		Negative I	Pressure Test	
Date/Time Performed: 6-11-13 7.21			(11/42	17-20
Background He Concentration (ppm)	6	Date/Time Performed:	218 in He	11.07
	10	Negative Pressure of at sampling train (Yes)	least -15 in. Hg ind No	luced on
Shroud He Concentration (%)	18,000 pp	~		
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	6	Did pressure hold?	Yes	No
Helium Leak Test Passed: Yes No				
Notes PID= 21				

IA-2

Project No.:	4759-004
Project Name:	Donaldsonil
Sample Location:	Beauty Shys
Date:	(0-1)-13
Field Personnel:	KRE, DPE
Recorded by:	KPE

Weather: <u>5</u> Air Temperature: <u>6 ۹ ه آ</u> Atmospheric Pressure: <u>24, ۹</u>

Canister Information										
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum		
6-1)-13	0918	1601	IA-2	1069	FCO291	-	-24 in Hy	- 3 in Ita		
							,	· J		

Comments: Judier set of in book holling

Project No.: 4754-004 Date: 6-11-13





Sub-Slab Vapor I	Field Samp	ling Form
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Project Name	malds	ONS		Sample Date	(5-11-1	3
Location/Address	Dry Clean	~15		Sample ID	·	SSV-3
Project No.	4754-0	04		Sample Time	1401 +	לי
Client/Contact	リナブ チャ	witht		Canister ID	0725	
Data Collection Start Date	6-11-13	3		End Date	6-11-1	3
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
) 40)	- 30 ,	West	Smph	76	29.89	56
1448	- 13	is sur	9 mph	76	39.8	
				-		
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			MARK-LOW-LOW-LOW-LOW-LOW-LOW-LOW-LOW-LOW-LOW	·····		
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	<u> </u>	<u></u>				
			<u></u>		<u></u>	
·····						

Helium Leak Test	Negative Pressure Test		
Date/Time Performed: 10-13 13:40 pm		Date/Time Performed: (1-1)-13 1358	
Background He Concentration (ppm)	/0	Baternine renomined. O 11 19 1230	
		Negative Pressure of at least -15 in. Hg induced on sampling train (Yes) No	
Shroud He Concentration (%)	1500 ppm		
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	3 com	Did pressure hold? (Yes) No	
Helium Leak Test Passed: Yes No	¥1		
No paired inder air supe cilleto de	ri,		
Notes to dry cleaning facility			
PID = 21			



					and a second	
Project Name	Donald	soni		Sample Date	6-12-	13
Location/Address	Fastenal	6129		Sample ID		55V-4
Project No.	4754	-024		Sample Time	36 h;	ih
Client/Contact	H+J:	Investments		Canister ID	669	
Data Collection Start Dat	e <u> </u>	3		End Date	6-12	- 13
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
1544	-29.5	ESE ET	7	74	29.87	61
162D	- 5	ESE	7	74	29.87	G (
Restrict to the second s	<u></u>					
		•		<u></u>		
			·			
			<u>_</u>			****
						<u></u>
	APLAN AN INTERNATION Part In consult which the characteristic	40.0000,000 Tel. 20020170070000000000000				
	·	<u> </u>	_ 			

Helium Leak Test	Negative Pressure Test			
Date/Time Performed: $(p-jk-jk) = (5.3a)$		Date/Time Performed:	6-12-13	
Background He Concentration (ppm) 🛇			-1810-	
i (og)		Negative Pressure of at sampling train	least -15 in. Hg i No	nduced on
Shroud He Concentration (%)		S		
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	Ò	Did pressure hold?	(Yes)	No
Helium Leak Test Passed: (Yes) No			\mathbb{D}	
Notes PID = L				

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т

Sub-Slab Vapor Field Sampling Form

IA	-	Ч
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Project No .: 4754-004 Project Name: Doublesons Sample Location: Fosten & East Strage Date: 4-12-13 Field Personnel: KAE, DPE Recorded by: KRS

Weather: Jourst Air Temperature: 66 of Atmospheric Pressure: 29.881

Sample Location Observations

HVAC System Operating (Y(N)? HVAC System type (gas forced air, fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? Windows Open? No Occupants Smoking? NG

Canister Information								
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
6-12-13	0821	1506	IA-4	572	FC0361		- 28	- 2
		·						

Comments:

Project No.: 4754-004 Date: 6-12-13 Sample Location/ID: TA-4/SSV-4 (Fastenal-East Side)



Sub-Slab Va	apor	Field	Sampling	Form
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Project Name	Donaldso	ทไ		Sample Date	6-12-	13	
Location/Address	Fastenal	bldg		Sample ID	6/14/1355-5	55V-5 .	
Project No.	4754-0	004		Sample Time	37 min		
Client/Contact	H+JIN	vestments		Canister ID	1621		
Data Collection Start I	Date <u>6-12-13</u>			End Date	6-12	-13	
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %	
1632	- 30	ESE	- A	74	29.87	61	
1709	-5.5	E		74	29.81	65	
	 						
	······································			<u></u>			
	······		·		<u> </u>		
		Net again and the fight of the second se		·		·	
					Carl of the second second	- Charles - School -	
				<u></u>			
	<u> </u>	.				•	
				<u></u>		 	
			<u></u>				

Helium Leak Test	Negative Pressure Test			
Date/Time Performed: 6/12/13		Date/Time Performed:	6-12-13 1670	
Background He Concentration (ppm)			- 18 in Ha	
1 Gunn		Negative Pressure of at sampling train Yes	least -15 in. Hg induced on No	
Shroud He Concentration (%) 1800 ppm				
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	\mathcal{O}	Did pressure hold?	Yes No	
Helium Leak Test Passed: Yes No				
Notes PID = 2				

Project No.:	4754-014		
Project Name:	Donald sont		
Sample Location:	Fastenal West	Skrage	Air
Date:	6-12-13		Atmosph
Field Personnel:	KRE DPG		
Recorded by:	KRE		

Weather:	Owcast
Air Temperature:	66 °F
Atmospheric Pressure:	29.88: +

Sample Location Observations HVAC System Operating (Y/N)? HVAC System type (gas.forced air_fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? Windows Open? Our for oper to approx. I h. at beginning of Suply Occupants Smoking? No

Canister Information									
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum	
6-12-13	0824	1512	IA-5	987	FCOIDZ		- 30	- 6	
•									

Comments:

Project No.: 4754-004 Date: 6-12-13 Sample Location/ID: IA-5/55V-5 (Fastenal - West Sicle)

Sample Locations Sketch: overhead Door 21.9' グ Double Entrance Door 35.5 Restorns office the 2 1 Ø IA-5/55V-5 Break 51 Showroom / Sales Floor 15 Main Entrance Curtis Avenue TN NOT TO SCALE

Project Name Location/Address Project No. Client/Contact Data Collection Start Da	Donedswif <u>Crenty</u> P= <u>4754-0</u> <u>H+J</u> Fru ale <u>6/17/13</u>	t's BN Anea 14 Natur		Sample Date Sample ID Sample Time Canister ID End Date	6/17/1 <u>550-6</u> <u>36</u> <u>47</u> 6/17/1	3
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
<u>0755</u> 0831	<u>- 30</u> - 4	ENE ESE	2	<u>64</u> 67	29.89 29.87	76 72
	<u> </u>					

Helium Leak Test	Negative F	Pressure Test		
Date/Time Performed: גן מן און	0746		1/17/17	07/~
Background He Concentration (ppm)		Date/Time Performed:	-18 in Ha	- 150
ic ad		Negative Pressure of at sampling train (Yes)	least -15 in. Hg in No	duced on
Shroud He Concentration (%)				
y - Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	Ò	Did pressure hold?	Yes	No
Helium Leak Test Passed: Yes No				
Notes $P_{1D} = 41$				

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Sub-Slab Vapor Field Sampling Form

Project No.: 4754-00 y Project Name: 4. Donaldians	Weather:	(lear
Sample Location: Granky Ports Boy Aus	Air Temperature:	6805
Date: 6117/13	Atmospheric Pressure:	29.91
Field Personnel: KRE, DPE		
Recorded by: KRE		

Sample Location Observations HVAC System Operating (C/N)? A)C مهمیک HVAC System type <u>(gas forced air</u>, fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? Windows Open? No Occupants Smoking? No

	Canister Information							
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
6/173/3	0015	0631	JA-6	1671	FC0363	<u> </u>	-26	-4

Comments: Summa constr placed on Tuble in NW corner of Bir Area. * cleaning personnel come in about 4:30 am and began cleaning Kest/Bor. Cleaning Constra of Sweeping, vacuuming + mojing floors.

IA-6

Project No.: 4754-004 Date: 6-17-13



IA-7

Project No.: 4754= 004	
Project Name: Donaldians	
Sample Location: Carky Pats Kitchen	
Date: 6117113	
Field Personnel: YOU DPE	
Recorded by:	

Weather:	cleo
Air Temperature:	68
Atmospheric Pressure:	29

91

Sample Location Observations HVAC System Operating (Y/N)? HVAC System type (gas forced air, fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? No. Windows Open? No Occupants Smoking? 🎝

			Can	ister Informa	ation			
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
6117/13	0016	0703	IA-7	1500	FC0215		-30	-5
			;					

Comments: Shomma Carristor placed on Conter in Sw corner of Katchen * Note: No poined sub slob saple with IA-7 .. classing personnel come in ours 4:30 on to sweep, mog and vacuum Aloors, cleany products consisted of Dawn dich sury. and Neutral flow cleaner.

Project No.: 4754-004 Date: 6-17-13



Sub-Slab Vapor Field Sampling Form

Selection and a selection of the selecti						
Project Name	Ponoldes	ins		Sample Date	6/17/13	
Location/Address	Cranky Pa	ts Bsmt		Sample ID	551-8	•
Project No.	4754-00	уЧ		Sample Time	- 41 min	
Client/Contact	H+J7	1v estments		Canister ID	152	
Data Collection Start	Date <u>6/17/1</u>	3		End Date	6/17/13	
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
0912	- 29,5	N	2	65°f	18, PG	73
0953	- 3.5	NE	7	710 F	29.71	63
			<u></u>		<u></u>	
<u></u>	·····			·		
** <u>*</u>	40 0		•			
	- //					
					<u></u>	
	<u></u>		<u> </u>	<u>.</u>		
						
N Harry and the state of the st		<u> </u>				

Helium Leak Test		Negative P	Pressure Test
Date/Time Performed: 6/17/13 09 03			11711
Background He Concentration (ppm)	0	Date/Time Performed:	- 18 inth
20000		sampling train Yes	No
Shroud He Concentration (%)			
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	O	Did pressure hold?	(Yes) No
Helium Leak Test Passed: Yes No			
Notes PID = 21			

	Indoor Air Sampl	ing Form	IA-8
Project No.: Project Name:	4754-004 Dametalans	Weather:	Clear
Sample Location:	Cranky Pati Ktothen Basement	Air Temperature:	68°F
Date:	6/17/13	Atmospheric Pressure:	29.91
Field Personnel:	KVES. PPE		
Recorded by:	FQ6'	Manamatan II da ana ing kanang ka	

Sample Location Observations					
HVAC System Operating (V/N)? First flor, Cooler unconsists upnity					
HVAC System type (gas forced air, fuel oil, hydronic, etc.)?	• .				
Chemical Storage Near Sample Location?	,				
Windows Open? No.	$\{ y_i \}_{i \in \mathbb{N}}$				
Occupants Smoking? No	. *				

Canister Information										
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum		
6/17/13	0019	0735	FA-8	2056	FC0327	<u> </u>	-29	-4		
								, 		

Comments: Summa Canister placed on stool in center of west room.

Project No.: 4754-604 Date: 6/17/13



Project Name	Panalda	ons		Sample Date	6/17/13	
Location/Address	Cranky Pot	is Frozen Pizza	fachy	Sample ID	SSV-	9
Project No.	4754-0	04	-	Sample Time	40,	nin
Client/Contact	H+J-	Investments		Canister ID	685	
, Data Collection Start D	ate <u>6/17/</u>	3		End Date	_6/17/13)
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
10:21	- 30	NE	7	_71_	29,91	63
11:01	- 4	NW	6	72	29.91	_57
	·		· · · · · ·			·
						la ta anna 1970 a bh' ann fan san a 1970 a bha an a' stàirte
·						······································
			·····	••••••		
				V		
	. <u> </u>				<u> </u>	
				•••••••		·
	41	.				

Helium Leak Test	Negative Pressure Test			
Date/Time Performed: (/17//3	1015	Date/Time Performed:	6/17/13 1018	
Background He Concentration (ppm)		······································	~ 18 W. Ha	
	10	Negative Pressure of at sampling train (Yes)	least -15 in. Hg induced on No	
Shroud He Concentration (%)	1700ppn			
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	\mathcal{D}	Did pressure hold?	Yes No	
Helium Leak Test Passed: Yes No				
Notes $P_{1D} = \chi_1$				

Sub-Slab Vapor Field Sampling Form

	Indoor Air Sampling Form		IA-9
Project No.:	4754-04		
oject Name:	Duridion	Weather:	clean

Project Name:	Dorol	dion			
Sample Location:	Cranky	Pats	frozon	0.224	Failury
Date:	6/17/1	3	, , , ,	در	
Field Personnel:	KRE I	SPE			
Recorded by:	KG				

Weather:	
Air Temperature:	
Atmospheric Pressure:	

68°F

29,91

Sample Location Observations HVAC System Operating (Y/)? HVAC System type (gas forced air, fuel oil, hydronic, etc.)? Chemical Storage Near Sample Location? 1/0 Windows Open? No Occupants Smoking?

Canister Information									
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum	
6/17/13	0021	0650	IA-9	6871	FC0319		-29.5	-4.5	
					·				

Comments: Summa conish placed on Tuble outside of Mechanical Rem.

Project No.: 4754-004 Date: 6/17/13


Outdoor Air Sampling Form

0A-1

and the second se	
Project No.:	4754-004
Project Name:	Douldini
Sample Location:	Backward of 110 w. Caril St.
Date:	6-11-13
Field Personnel:	KAB. DPE
Recorded by:	KI6

Weather:	Surny Mean
Air Temperature:	69 of
Atmospheric Pressure:	29,91 in
Wind Direction	W C 5- mysh

Description of Sample Location							
wast of Druldson Bldg	in Backyool of 114 w. Cacil Street						

	Canister Information							
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
6-11-13	0853	1630	DA-1	1755	FC0097		-30 inthe	-2 in Hg
								σ

Comments:		
ł		
1		

Outdoor Air Sampling Form

0A-2 + 0A-3

Project No.: 4754-	20 Y	
Project Name: Doulds	weather:	de cost
Sample Location:	Air Temperature:	46 ° f
Date: 6-12-	13 Atmospheric Pressure:	29.88
Field Personnel:	. DP¥ Wind Direction	ENE
Recorded by: Feb		

 Description of Sample Location									
0A-2 ;	located	in	Corner u	& parking	lot its	SW of	Fustinal	Glog	
0A-3:	locoled	1%	~1 huy	between	Dornhalson	\$ 214	(lows;	and fustenal	312g

	Canister Information								
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum	
6-12-13	0130	1537	OA-2	\$977	FC0334		- 30	- 7	
6-12-13	0940	1601	0 A - 3	0839	FC 0079		- 30	- 7	
		, ,						,	

Comments: Internitet smaking occurring war Donaldson's Bidy by employees

	Outdoor Air S	ampling Form	OA	-4 + 04-5
Project No.: Project Name: Sample Location: Date: Field Personnel: Recorded by:	H754- COif H+ J'in vestments Dorubliens Dig Claur 6-16-13/16-17-13 KAE, DPE	Weather: Air Temperature: Atmospheric Pressure: Wind Direction	Clesa 680F 29.91 NE C	9 mph

		Description of Sample Location	
0 A - 4	لحطمن	placed in NE come of cronley Pate Pullay lat	
0A-5	wa)	placed in Alley behind Donaldson's Dry clans	

	Canister Information								
Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum	
6/16/13	#2358	0646611	0A-4	475 1078	FC0068		~ 30	- 5	
6/16/13	2359	0638611	UA - 5	2040	FCO285		-29	-3	
. ,									

Comments:			
			1
			

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ATTACHMENT B

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PHOTOGRAPHS OF VAPOR INTRUSION SAMPLING



Photo 1: Outdoor air sample OA-1.



Photo 3: Indoor air sample IA-2.



Photo 5: Flush mount cap at SSV-3.



Photo 2: Indoor air sample IA-1.



Photo 4: Sub-slab vapor sampling using 6-liter Summa canister at SSV-3.



Photo 6: Helium leak testing of Vapor Pin at SSV-1.



Photo 7: Sub-slab vapor sampling using 6-liter Summa canister at SSV-1.



Photo 9: Sub-slab vapor sampling using 6-liter Summa canister at SSV-2.



Photo 8: Flush mount cap at SSV-1.



Photo 10: Flush mount cap at SSV-2.



Photo 11: Indoor air sample IA-4.



Photo 12: Indoor air sample IA-5.



Photo 13: Outdoor air sample OA-2.



Photo 15: Sub-slab vapor sampling using 6-liter Summa canister at SSV-4.



Photo 14: Outdoor air sample OA-3.



Photo 16: Flush mount cap at SSV-4.



Photo 17: Helium leak testing of Vapor Pin at SSV-5.



Photo 18: Sub-slab vapor sampling using 6-liter Summa canister at SSV-5.



Photo 19: Flush mount cap at SSV-5.

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Photo 20: Outdoor air sample OA-4.



Photo 21: Indoor air sample IA-6.



Photo 22: Indoor air sample IA-8.



Photo 23: Outdoor air sample OA-5.



Photo 24: Indoor air sample IA-9.



Photo 25: Location of SSV-6.



Photo 27: Sub-slab vapor sampling using 6-liter Summa canister at SSV-6.



Photo 26: Helium leak testing of Vapor Pin at SSV-6.



Photo 28: Flush mount cap at SSV-6.



Photo 29: Vapor Pin location of SSV-8.



Photo 30: Sub-slab vapor sampling using 6-liter Summa canister at SSV-8.



Photo 31: Vapor Pin removed and concrete patched at SSV-8.



Photo 33: Flush mount cap at SSV-9.



Photo 32: Sub-slab vapor sampling using 6-liter Summa canister at SSV-9.

C

ATTACHMENT C

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LABORATORY ANALYTICAL REPORTS



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

July 02, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232377

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

An Westike

Aaron Fredrikson for Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures





CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232377

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace

Montana Certification #: MT CERT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 North Dakota Certification #: R-036A Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project: 4754-004 Donaldsons One Hr.

Pace Project No.:	10232377

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232377001	SSV-1	Air	06/11/13 17:07	06/17/13 09:38
10232377002	SSV-2	Air	06/11/13 18:06	06/17/13 09:38
10232377003	SSV-3	Air	06/11/13 14:48	06/17/13 09:38
10232377004	OA-1	Air	06/11/13 16:30	06/17/13 09:38

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232377

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232377001	SSV-1	TO-15	CJR	5
10232377002	SSV-2	TO-15	CJR	5
10232377003	SSV-3	TO-15	CJR	5
10232377004	OA-1	TO-15	CJR	5

REPORT OF LABORATORY ANALYSIS



4754-004 Donaldsons One Hr.

Project:

ANALYTICAL RESULTS

Sample: SSV-1	Lab ID: 10232	377001	Collected: 06/11/1	3 17:07	Received: 0	6/17/13 09:38 M	latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method	1: TO-15						
cis-1,2-Dichloroethene	ND ua/m	3	24.1	29.8 <	:5-98	06/29/13 01:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/m	3	24.1	29.8	<i>e5</i> .98	06/29/13 01:06	156-60-5	
Tetrachloroethene	814 ug/m	3	20.5	29.8		06/29/13 01:06	127-18-4	
Trichloroethene	ND ug/m	3	16.4	29.8 <	3.0	06/29/13 01:06	79-01-6	
Vinyl chloride	ND ug/m	3	7.7	29.8		06/29/13 01:06	75-01-4	
Sample: SSV-2	Lab ID: 10232	377002	Collected: 06/11/1	13 18:06	Received: 0	6/17/13 09:38 M	latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method	d: TO-15						
cis-1.2-Dichloroethene	ND ua/m	3	6.0	7.45 🗸	116	07/02/13 00:51	156-59-2	
trans-1.2-Dichloroethene	ND ua/m	3	6.0	7.45 <	1.19	07/02/13 00:51	156-60-5	
Tetrachloroethene	706 ug/m	3	5.1	7.45		07/02/13 00:51	127-18-4	
Trichloroethene	ND ug/m	3	4.1	7.45 <	-,751	07/02/13 00:51	79-01-6	
Vinyl chloride	ND ug/m	3	1.9	7.45 <	,731	07/02/13 00:51	75-01-4	
Sample: SSV-3	Lab ID: 10232	377003	Collected: 06/11/1	3 14:48	Received: 0	6/17/13 09:38 M	latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method	d: TO-15						
cis-1.2-Dichloroethene	334 ua/m	3	24.1	29.8		06/29/13 01:56	156-59-2	i
trans-1.2-Dichloroethene	170 ug/m	3	24.1	29.8		06/29/13 01:56	156-60-5	
Tetrachloroethene	1070000 ug/m	3	3520	5111.3		07/02/13 11:45	127-18-4	A3
Trichloroethene	1670 ug/m	13	16.4	29.8		06/29/13 01:56	79-01-6	
Vinyl chloride	ND ug/m	13	7.7	29.8 <	2.96	06/29/13 01:56	75-01-4	
Sample: OA-1	Lab ID: 10232	377004	Collected: 06/11/1	13 16:30	Received: 0	6/17/13 09:38 M	latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Metho	d: TO-15						
cis-1.2-Dichloroethene	ND ua/m	13	12	149 ◄	<.298	07/02/13 08:47	156-59-2	
trans-1.2-Dichloroethene	ND ug/m	13	1.2	1.49		07/02/13 08:47	156-60-5	
Tetrachloroethene	ND ua/m	13	1.0	1.49 <	: 145	07/02/13 08:47	127-18-4	
Triphloraotheapo	1.6 ug/m	2	0.00	1 40 - 4	29	07/02/42 00:47	70.04.0	
Inchioroethene	1.0 UQ/H	13	0.62	1.49 1	/ p = = 1	0//02/13 08.4/	79-01-0	



QUALITY CONTROL DATA

Project: 4754-004 Donaldsons One Hr.

Pace Project No .:

10232377

QC Batch: AIR/17686	Analysis M	ethod:	TO-15				
QC Batch Method: TO-15		Analysis De	escription:	TO15 MSV AIR	R Low Level		
Associated Lab Samples: 102323	77001, 10232377003						
METHOD BLANK: 1468323		Matrix	k: Air			······	
Associated Lab Samples: 102323	77001, 10232377003						
		Blank	Reporting				
Parameter	Units	Result	Limit	Analyze	d Qualif	fiers	
cis-1,2-Dichloroethene	ug/m3	NE	0.8	31 06/28/13 1	5:50		
Tetrachloroethene	ug/m3	NE	0.6	69 06/28/13 1	5:50		
trans-1,2-Dichloroethene	ug/m3	NE	0.8	31 06/28/13 1	5:50		
Trichloroethene	ug/m3	NE	0.5	55 06/28/13 15	5:50		
Vinyl chloride	ug/m3	NE) 0.2	26 06/28/13 15	5:50		
LABORATORY CONTROL SAMPLE	: 1468324						
		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
cis-1,2-Dichloroethene	ug/m3	40.3	34.0	84	73-135		
Tetrachloroethene	ug/m3	69	61.6	89	66-135		
trans-1,2-Dichloroethene	ug/m3	40.3	32.8	81	68-129		
Trichloroethene	ug/m3	54.6	60.0	110	68-134		
Vinyl chloride	ug/m3	26	18.6	72	64-134		
SAMPLE DUPLICATE: 1469515							
		10232850001	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
cis-1.2-Dichloroethene	 ua/m3	ND) N	 D		25	

ND

188

ND

ND

1.7

184

ND

ND

25

25

25

25

2

ug/m3

ug/m3

ug/m3

ug/m3

REPORT OF LABORATORY ANALYSIS

Tetrachloroethene

Trichloroethene

Vinyl chloride

trans-1,2-Dichloroethene



QUALITY CONTROL DATA

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232377

QC Batch:	AIR/17702
QC Batch Method:	TO-15

Analysis Method:

Matrix: Air

TO-15 Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10232377002, 10232377004

METHOD BLANK: 1469699

Associated Lab Samples: 10232377002 10232377004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/01/13 18:16	
Tetrachloroethene	ug/m3	ND	0.69	07/01/13 18:16	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/01/13 18:16	
Trichloroethene	ug/m3	ND	0.55	07/01/13 18:16	
Vinyl chloride	ug/m3	ND	0.26	07/01/13 18:16	

LABORATORY CONTROL SAMPLE: 1469700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	47.6	118	73-135	
Tetrachloroethene	ug/m3	69	81.1	118	66-135	
trans-1,2-Dichloroethene	ug/m3	40.3	47.8	119	68-129	
Trichloroethene	ug/m3	54.6	57.4	105	68-134	
Vinyl chloride	ug/m3	26	31.7	122	64-134	

SAMPLE DUPLICATE: 1470012

Parameter	Units	10232383002 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	69.5	69.3	.2	25	
trans-1,2-Dichloroethene	ug/m3	10.2	10.1	1	25	
Trichloroethene	ug/m3	2.2	2.1	3	25	
Vinyl chloride	ug/m3	ND	ND		25	



QUALIFIERS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232377

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232377

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232377001	SSV-1	TO-15	AIR/17686		
10232377002	SSV-2	TO-15	AIR/17702		
10232377003	SSV-3	TO-15	AIR/17686		
10232377004	OA-1	TO-15	AIR/17702		

10232377

. Face Analytical" www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Inform	nation:			Sectior	n C nformation:		, . ·				•							11	14	04	Pag	e: / of	1
Company: Robert E. Lee- Associates	Report Toj .	a 1914	ant		Attentior	" Nico	le Lar	lan+	Alementers and an address of the sectors of	KOMTPH VOLVA									Pro	gram				
Address: 4 Colder Pond Prth. Ct.	Сору То:				Compan	y Name:	obert	E.L	ee. + b	1550	nce'a	tes		************		1	JST	Suj	perfun	d .	Emiss	ions	Clean A	r Act
Hobart, WI 54155	a series and the series of the	1969 - Katarin Luis		andara analysi y talang 100 da af tanaga atlanti tala a ga g	Address	· Hello	4 Gal	lan P	and	Park	40	÷.	Hol	art		: [™] Vo	luntar	/ Clear	1 Up	🔀 Dr	y Clean	(***) F	CRA : C	ther
Email To: n/a plant @ releeinc.com	Purchase Order No.:	1998 garrenten - John - 1999	44. E-1466 - 4. Jun		Pace Qu	lote Referen	ice: 791	7	analda ayaka ayaka dana		II Lorali Signali	Ü	01	5-11-53	, I	Locat	ion of					Rep	orting Units	
Phone: 920-662-9641 Fax:	Project Name:	e Hr.	Cle	PQ 17885	Pace Pr	oject Manag	er/Sales R	ep. Ca	rolver	جمه 12	Troi	1+		*******		Samp	oling t	y Sta	te	W	<u> </u>	PPB	V PPMV_	
Requested Due Date/TAT: Normal	Project Number: 47	154-	004	1	Pace Pr	ofile #:	19. 2007 - Y. Marin July - Ministration (1. 49. 49. 49.	- 79402 2+10- - 465-00-00-0	yyk*			nden -Aug-Low		ndet Hollosofor,h.Pe		Repor	t Leve	<u>i</u> II	l	ll	IV	Oth	er	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes <u>MEDIA</u> <u>CODE</u> Tediar Bag 1 Liter Summa Can 6 Liter Summa Can 6 Liter Summa Can 6 Liter Summa Can 6 LVP High Volume Puff HVP HVP HVD	CODE	eading (Client only)	COMPOSITE STAR		ECTED	POSITE -	ister Pressure ial Field - psig)	ister Pressure al Field - psig)	Su C Nu	mma Can mbei		ontr	Flow ol Nui	nbei	Metho	<u>d:</u>	as (3)	CBCI Del	(AND)		nor List		
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Air Sample Condition Clie Upon Receipt	nt Name:			Project #	MOH	: 10232:	377	
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Tracking Number:	388360 OC	0 93185	<u>}</u>		1023237	7		
Custody Seal on Cooler/Box	x Present? Yes	No	Seals In	tact?]Yes 🗍 No	Optional: Proj. Due Da	ite: Proj. Nar	ne:
Packing Material:	ble Wrap Bubbl	e Bags 🛛 🕅 Fo	am []None	Other:			
Temp. (TO17 and TO13 sample Temp should be above freezing	s only) (°C): <u>AMB</u> g to 6°C Correction Fac	Corrected Tem	p (°C):		Thermom. Used: Date & Initials of I	B88A912167504 [Person Examining Conten	_80512447 ts: <u>G/17</u>	□72337080 13 AF
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Sampler Name and/or Signa		Yes ܐܠ.			<u>4.</u>		=	
Samples Arrived within Hold		¥es	<u>INO</u>		5.			
Short Hold Lime Analysis (<	(72 hr)?		<u>ZNO</u>		<u>b.</u>		·····	
Rush Turn Around Time Re	quested?	Yes'	No		7.			
Sufficient Volume?		<u>Prives</u>			8			
Correct Containers Used?		[⊉¶es	∐No —		9.			
-Pace Containers Used?	-	* Yes						
Containers Intact?	1	Ses	No	N/A	10.			
Media:	<u>A:s</u>				11.			
Sample Labels Match COC?		Yes	<u>∏</u> No	N/A	12.			
Samples Received:	4 coms,	HFC						
Canist	ers		Flow	Controllers		St	tand Alone G	
Sample Number	Can ID	Sample N	lumber		Can ID	Sample Number		Can ID
SSV-1	ତଟ୍ଟ୍ର			FC	20664			
SSV-Q	1637			50	20623			
85V-3	0725			F	20591			
6A-1	1755			F	0097			
			1					
			•					
CLIENT NOTIFICATION/RES	OLUTION					Field Data Requi	red? Yes	No
Person Contac	ted:			C	Date/Time:			
Comments/Resolut	ion:							
	,		A 5500	~		<u> </u>		
Project Manager Review: Note: Whenever there is a discr	epancy affecting North Ca	irolina compliance	e samples,	a copy of th	Date: Date: Date:	t to the North Carolina Di) EHNR Certificat	ion Office (i.e
one, meancer preservative, out	or comp, meaned conter							

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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

July 02, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232381

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Jaw Weditan

Aaron Fredrikson for Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS



CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232381

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace

Montana Certification #: MT CERT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 North Dakota Certification #: R-036A Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: M00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970



SAMPLE SUMMARY

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232381

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232381001	IA-1	Air	06/11/13 15:47	06/17/13 09:38
10232381002	IA-2	Air	06/11/13 16:01	06/17/13 09:38
10232381003	IA-4	Air	06/12/13 15:06	06/17/13 09:38
10232381004	IA-5	Air	06/12/13 15:12	06/17/13 09:38

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232381

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232381001	IA-1	TO-15	CJR	5
10232381002	IA-2	TO-15	CJR	5
10232381003	IA-4	TO-15	CJR	5
10232381004	IA-5	TO-15	CJR	5

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 4754-004 Donaldsons One Hr.

Pace Project No .: 10232381

Sample: IA-1	Lab ID: 10232381001	Collected: 06/11/	13 15:47	Received: 0	06/17/13 09:38 N	Matrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	5		PAGV			
cis-1,2-Dichloroethene	ND ug/m3	1.3	1.61	. 323	07/01/13 22:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/m3	1.3	1.61	,323	07/01/13 22:30	156-60-5	
Tetrachloroethene	29.0 ug/m3	`1.1	1.61	4.21	07/01/13 22:30	127-18-4	
Trichloroethene	ND ug/m3	0.89	1.61	.163	07/01/13 22:30	79-01-6	
Vinyl chloride	ND ug/m3	0.42	1.61	,162	07/01/13 22:30	75-01-4	
Sample: IA-2	Lab ID: 10232381002	Collected: 06/11/	13 16:01	Received: 0	06/17/13 09:38 N	Matrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	5					
cis-1.2-Dichloroethene	ND ug/m3	1.3	1.55	,323	07/01/13 22:58	156-59-2	
trans-1 2-Dichloroethene	ND ug/m3	1.3	1.55	323	07/01/13 22:58	156-60-5	
Tetrachloroethene	61.0 µg/m3	1.0	1.55	8.85	07/01/13 22:58	127-18-4	
Trichloroethene	22.4 µg/m3	0.85	1.55	4.1	07/01/13 22:58	79-01-6	
Vinyl chloride	ND ug/m3	0.40	1.55	,154	07/01/13 22:58	75-01-4	
Sample: IA-4	Lab ID: 10232381003	Collected: 06/12/	13 15:06	Received: 0	06/17/13 09:38 N	Matrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	5					
cis-1 2-Dichloroethene	ND ug/m3	13	161	323	07/01/13 23:55	156-59-2	
trans-1 2-Dichloroethene	15.8 ug/m3	1.3	1.61	3.92	07/01/13 23:55	156-60-5	
Tetrachloroethene	28.4 ug/m3	1.1	1.61 4	1.12	07/01/13 23:55	127-18-4	
Trichloroethene	4.1 ug/m3	0.89	1.61	75	07/01/13 23:55	79-01-6	
Vinyl chloride	ND ug/m3	0.42	1.61	.162	07/01/13 23:55	75-01-4	
Sample: IA-5	Lab ID: 10232381004	Collected: 06/12/	13 15:12	Received: 0	6/17/13 09:38 N	/atrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	5					
cis-1 2-Dichloroethene	ND ug/m3	1 4	1.68 -	347	07/01/13 23.26	156-59-2	
trans-1 2-Dichloroethene	10.6 ug/m3	1.4	1.68	2.63	07/01/13 23:20	156-60-5	
Tetrachloroethere	17.8 µa/m3	1.4	1.68	2.58	07/01/13 23:26	127-18-4	
Trichloroethene	1.3 ug/m3	0.92	1.68 /	20124	07/01/13 23:26	79-01-6	
	1.0 49/110	0.02	1.00 0		0.70171020.20		

REPORT OF LABORATORY ANALYSIS

0.44 1.68 .169

ND ug/m3

Vinyl chloride

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.. 07/01/13 23:26 75-01-4



Convert to PPOV

QUALITY CONTROL DATA

TO-15

TO15 MSV AIR Low Level

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232381

JUNO.. 102020

QC Batch: AIR/17702 QC Batch Method: TO-15 Analysis Method:

Analysis Description:

Matrix: Air

Associated Lab Samples: 10232381001, 10232381002, 10232381003, 10232381004

MEIH	ODI	BLAN	NK:	14696	199	
			~			

Associated Lab Samples:	10232381001, 10232381002, 1	0232381003, 10	0232381004		
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/01/13 18:16	
Tetrachloroethene	ug/m3	ND	0.69	07/01/13 18:16	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/01/13 18:16	
Trichloroethene	ug/m3	ND	0.55	07/01/13 18:16	
Vinyl chloride	ug/m3	ND	0.26	07/01/13 18:16	

LABORATORY CONTROL SAMPLE: 1469700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	47.6	118	73-135	
Tetrachloroethene	ug/m3	69	81.1	118	66-135	
trans-1,2-Dichloroethene	ug/m3	40.3	47.8	119	68-129	
Trichloroethene	ug/m3	54.6	57.4	105	68-134	
Vinyl chloride	ug/m3	26	31.7	122	64-134	

SAMPLE DUPLICATE: 1470012

		10232383002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	69.5	69.3	.2	25	
trans-1,2-Dichloroethene	ug/m3	10.2	10.1	1	25	
Trichloroethene	ug/m3	2.2	2.1	3	25	
Vinyl chloride	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232381

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232381

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232381001	IA-1	TO-15	AIR/17702		
10232381002	IA-2	TO-15	AIR/17702		
10232381003	IA-4	TO-15	AIR/17702		
10232381004	IA-5	TO-15	AIR/17702		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

10232381

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

Section A Required Client Information:	Section B Required Project Inform	nation:			Section	n C nformation:														14	05) P	age:	/ of	1
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Section D Required Client Information	Valid Media Codes <u>MEDIA</u> <u>CODE</u> Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	EDIA CODE	PID Reading (Client only)	COMPOSITE STAR END/GRAB		COM	POSITE -	Canister Pressure (initial Field - psig)	Canister Pressure (Final Field - psig)	Su C Nu	mma an mbei	. C	Fontro	low I Nu	mber	Meth	od:	0.3 00 635 (%)	O.4. (Inerty.	0.19 (Path)	1 	CIS Short Line		/	
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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

July 03, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232383

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Ann Kiedilan

Aaron Fredrikson for Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232383

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace Montana Certification #: MT CERT0092 Nebraska Certification #: Pace Nevada Certification #: MN 00064 New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970



SAMPLE SUMMARY

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232383001	SSV-4	Air	06/12/13 16:20	06/17/13 09:38
10232383002	SSV-5	Air	06/12/13 17:09	06/17/13 09:38
10232383003	OA-2	Air	06/12/13 15:37	06/17/13 09:38
10232383004	OA-3	Air	06/12/13 16:01	06/17/13 09:38

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232383

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232383001	SSV-4	TO-15	CJR	5
10232383002	SSV-5	TO-15	CJR	5
10232383003	OA-2	TO-15	CJR	5
10232383004	OA-3	TO-15	CJR	5

REPORT OF LABORATORY ANALYSIS


ANALYTICAL RESULTS

Project:	4754-004 Donaldsons C	One Hr.
,		

Pace Project No.: 10232383

Sample: SSV-4	Lab ID: 10232383001	Collected: 06/12/	13 16:20	Received:	06/17/13 09:38 N	latrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15	i					
cis-1,2-Dichloroethene	ND ug/m3	1.3	1.61 <	323	07/01/13 20:09	156-59-2	
trans-1,2-Dichloroethene	3.6 ug/m3	1.3	1.61 D	.89	07/01/13 20:09	156-60-5	
Tetrachloroethene	90.1 ug/m3	1.1	1.61	3.07	07/01/13 20:09	127-18-4	
Trichloroethene	ND ug/m3	0.89	1.61 <	,163	07/01/13 20:09	79-01-6	
Vinyl chloride	ND ug/m3	0.42	1.61 🗹	.162	07/01/13 20:09	75-01-4	
Sample: SSV-5	Lab ID: 10232383002	Collected: 06/12/	13 17:09	Received:	06/17/13 09:38 N	latrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15						
cis-1.2-Dichloroethene	ND ua/m3	1.3	1.61 <	,323	07/01/13 20:37	156-59-2	
trans-1.2-Dichloroethene	10.2 ug/m3	1.3	1.61 2	2.53	07/01/13 20:37	156-60-5	
Tetrachloroethene	69.5 ug/m3	1.1	1.61 /	0.80	07/01/13 20:37	127-18-4	
Trichloroethene	2.2 ug/m3	0.89	1.61 0	.40	07/01/13 20:37	79-01-6	
Vinvl chloride		0.42	1.61	119	07/01/13 20:37	75-01-4	
,				1100			
Sample: OA-2	Lab ID: 10232383003	Collected: 06/12/	13 15:37	Received:	06/17/13 09:38 M	latrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15	1					
cis-1,2-Dichloroethene	ND ug/m3	1.5	1.83 <	,372	07/01/13 21:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/m3	1.5	1.83 <	.372	07/01/13 21:34	156-60-5	
Tetrachloroethene	ND ug/m3	1.3	1.83 <	.189	07/01/13 21:34	127-18-4	
Trichloroethene	ND ug/m3	1.0	1.83 <	183	07/01/13 21:34	79-01-6	
Vinyl chloride	ND ug/m3	0.48	1.83 <	-,185	07/01/13 21:34	75-01-4	
Sample: OA-3	Lab ID: 10232383004	Collected: 06/12/	13 16:01	Received:	06/17/13 09:38 M	atrix: Air	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15				···		
cis-1.2-Dichloroethene	ND ua/m3	1 4	1.68 <	.347	07/01/13 22:02	156-59-2	
trans-1.2-Dichloroethene	ND ug/m3	1.4	1.68 <	347	07/01/13 22:02	156-60-5	
Tetrachloroethene	28 9 ug/m3	1.4	1.68	19	07/01/13 22:02	127-18-4	
Trichloroethene	1 3 µa/m3	0.92	1.68 A	34	07/01/13 22:02	79-01-6	
Vinyl chloride	ND ua/m3	0.32	1.68 /	110	07/01/13 22:02	75-01-4	
	ND ug/m5	0.44	1.00 ~	167	01/01/13 22.02	10-01-4	

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 4754-004 Dona	aldsons One Hr.							
Pace Project No.: 10232383								
QC Batch: AIR/17702		Analysis N	lethod:	то	-15			
QC Batch Method: TO-15		Analysis D	escription:	то	15 MSV AIR	Low Level		
Associated Lab Samples: 10232	383001, 10232383002	, 10232383003	, 1023238300)4				
METHOD BLANK: 1469699		Matr	ix: Air					
Associated Lab Samples: 10232	383001, 10232383002	, 10232383003	, 1023238300)4				
		Blank	Reportir	g				
Parameter	Units	Result	Limit		Analyzeo	d Qualif	fiers	
cis-1,2-Dichloroethene	ug/m3	N	D	0.81	07/01/13 18	3:16		
Tetrachloroethene	ug/m3	N	D	0.69	07/01/13 18	3:16		
trans-1,2-Dichloroethene	ug/m3	N	D	0.81	07/01/13 18	3:16		
Trichloroethene	ug/m3	N	D	0.55	07/01/13 18	3:16		
Vinyl chloride	ug/m3		D	0.26	07/01/13 18	3:16		
LABORATORY CONTROL SAMPLI	E: 1469700							
		Spike	LCS		LCS	% Rec		
Parameter	Units	Conc.	Result	%	6 Rec	Limits	Qualifiers	
cis-1,2-Dichloroethene	ug/m3	40.3	47.6		118	73-135		
Tetrachloroethene	ug/m3	69	81.1		118	66-135		
trans-1,2-Dichloroethene	ug/m3	40.3	47.8		119	68-129		
Trichloroethene	ug/m3	54.6	57.4		105	68-134		
Vinyl chloride	ug/m3	26	31.7		122	64-134		

SAMPLE DUPLICATE: 1470012

Parameter	Unite	10232383002 Result	Dup Result	RPD	Max RPD	Qualifiers
i didilicitei						Quanners
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	69.5	69.3	.2	25	
trans-1,2-Dichloroethene	ug/m3	10.2	10.1	1	25	
Trichloroethene	ug/m3	2.2	2.1	3	25	
Vinyl chloride	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232383

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232383001	SSV-4	TO-15	AIR/17702		
10232383002	SSV-5	TO-15	AIR/17702		
10232383003	OA-2	TO-15	AIR/17702		
10232383004	OA-3	TO-15	AIR/17702		

Pace Analytical*

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

10232383

Received on

Temp in °C

Custody Sealed Cooler

Samples Intact Y/N

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

DATE Signed (MM/DD/YY) ひん/13/2013

Commercial Section Company Subscription Company Subscription Company Subscription Program Commercial Company Subscription Company Subscription Company Subscription Company Subscription Company Subscription Company Subscription Program Company Subscription Company Subscring Company Subscription	Section A Required Client Information:	Section B Required Project Inforr	nation:			Sectio Invoice	n C Information:]	111	40	6	Page:	/ of	
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$Comments: \\ 5 Compounds Only \\ -PCE, TCE, cis-DE; \\ truns -DCE, VC \\ Compounds Only \\ -PCE, TCE, cis-DE; \\ truns -DCE, VC \\ Compounds Only \\ -PCE, TCE, cis-DE; \\ truns -DCE, VC \\ Compounds Only \\ -PCE + CE + CE + CE \\ -PCE + CE +$	OA-Z	telen inden fred andele finlande for andele provinsier provinsieren method in overland date	620		6-17-13	1030	6-12-13	101	-200	-70		24	7-	69	2	22	3				5			**************************************	M3 3
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Comments: 5 compounds Only -PCE, TCE, cis-DCE, tmms-DCE, VC	10	nan kalan selak tanda di dalam tanda kanan kalan sebagai kanan		a da calgo dina				-																	
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-PCE, TCE, cis-DCE,	5 Compounds Ouly	L	In Eco	lote	seet / Rol	ATCO	lee	6/13/13	16	00	4	C. C	discourses.		-	Perc	0 61	17/1	30	938	A	MB	W.	X IV	<u>s</u>
-PCE, ICE, cis-kt, $t_{mns}-DcE, VC$		~ -					· · · · · · · · · · · · · · · · · · ·		<u> </u>				~ 		-									NX XX	<u></u>
towns-DCE, VC	-PCE, TCE, cis-DCE	<i>c</i> , _						. 	<u> </u>		ļ												NX N	*	1
	towns-DCE, VC	l													NW NOT	NHAT DAY AN	MANARARA				ALLING	<u>: 71</u>	ال لا		*

RINT Name of SAMPLER:

ORIGINAL

Taut A	แลงแรล		Docume F-MN-A-10	יחז ואס.: 06-rev.07		Pace N	issuing Autionity Ainnesota Quality	Office	
ir Sample Condition Clien	t Name:			Project #:	₩0₩	: 102	3238	3	
	Robert E. C	he	•						
Courier: Fed	Ex UPS		□c	lient					
Com	mercial Pace	Other:			1023238	. .	, -		
racking Number:	388360 000	23168							
ustody Seal on Cooler/Box	Present? Yes	No	Seals Ir	ntact?	Yes 🗌 No	Optional:	Proj. Due Date:	Proj. Name:	
acking Material:Bubb	le Wrap 🔄 Bubbl	e Bags 🛛 🕄 Foa	am [None	Other:				
emp. (TO17 and TO13 samples emp should be above freezing	oniy) (°C): <u>AMB</u> to 6°C Correction Fa	_ Corrected Temp ctor:	• (°C):		Thermom. Used: Date & Initials of I	B88A912 Person Exami	2167504 80	512447 7233 G1113	37080 AS
		· ·			-		Comments:		
Chain of Custody Present?	· · · · · · ·	Yes	No	□n/a	1.			····	
Chain of Custody Filled Out?		Yes	No		2.				
Chain of Custody Relinquishe	d?	Yes	No		3.				,
Sampler Name and/or Signat	ure on COC?	Ves	No		4.				
Samples Arrived within Hold	Time?	Yes	□No	□n/a	5.				
Short Hold Time Analysis (<7	2 hr)?	Yes	KINO	□N/A	6.				,
Rush Turn Around Time Requ	uested?	□Yes [·]	No	□n/a	7.	1			
Sufficient Volume?		Yes	No	□n/a	8.				
Correct Containers Used?		Yes	No	□n/a	9.				
-Pace Containers Used?		Yes	□No				•		
Containers Intact?		Ayes	[]No	□n/a	10.				
Media:	Arr				11.				
Sample Labels Match COC?	·	Yes	No	□n/A	12.				
Samples Received:	4 6000	- 4 50	7						
Canister	s s s s s s s s s s s s s s s s s s s		Flow	Controllers			Stand	Alone G	
Sample Number	Can ID	Sample N	umber		Can ID	Samp	le Number	Can I	D
45V-4	0669			S.	COLOS				
SEV-5	1621			50	0627				
38-4-5 0A-2	0977		****	E	CO334				
04-3	0839			F	50079	_			
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	an a								
			•						
LIENT NOTIFICATION/RESO	LUTION					Field D	ata Required?	□Yes □No) .)
Person Contacte	ed:			D	ate/Time:			Laura Lucut	
Comments/Resolution	on:				·				
	•		·····						
		K				0	17/10		
roject Manager Review:		-fit-			Date:	Ø1	115		

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Pace Analytical Services, Inc 1700 Elm Street - Suite 20(Minneapolis, MN 55414 (612)607-1700

July 03, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232729

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Asun Vieditan

Aaron Fredrikson for Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS



CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232729

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace Montana Certification #: MT CERT0092 Nebraska Certification #: Pace Nevada Certification #: MN_00064 New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232729

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232729001	SSV-6	Air	06/17/13 08:31	06/19/13 10:15
10232729002	SSV-8	Air	06/17/13 09:53	06/19/13 10:15
10232729003	Unlabeled PACE0707	Air	06/17/13 00:00	06/19/13 10:15
10232729004	Unlabeled PACE0513	Air	06/17/13 00:00	06/19/13 10:15

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232729

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232729001	SSV-6	TO-15	CJR	5
10232729002	SSV-8	TO-15	CJR, DR1	5

REPORT OF LABORATORY ANALYSIS



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ANALYTICAL RESULTS

Project:	4754-004 Donal	dsons One Hr.							
Pace Project No.:	10232729								
Sample: SSV-6		Lab ID: 10	232729001	Collected: 06/17/	13 08:31	Received: 0	6/19/13 10:15 N	/latrix: Air	
Paran	neters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Me	thod: TO-15						
cis-1,2-Dichloroethe	ene	ND u	g/m3	1.3	1.55 <	.323	07/02/13 09:40	156-59-2	
trans-1,2-Dichloroe	thene	ND u	g/m3	1.3	1.55 <	. 323	07/02/13 09:40	156-60-5	
Tetrachloroethene		56.5 u	g/m3	1.1	1.55	8.2	07/02/13 09:40	127-18-4	
Trichloroethene		ND u	g/m3	0.85	1.55 <	<.156	07/02/13 09:40	79-01-6	
Vinyl chloride		ND u	g/m3	0.40	1.55 🖍	•	07/02/13 09:40	75-01-4	
Sample: SSV-8		Lab ID: 10	232729002	Collected: 06/17/	13 09:53	Received: 0	6/19/13 10:15 N	latrix: Air	
Param	neters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Me	thod: TO-15						
cis-1,2-Dichloroethe	ene	152 u	g/m3	1.2	1.49		07/02/13 03:18	156-59-2	
trans-1,2-Dichloroet	thene	3.3 u	g/m3	1.2	1.49		07/02/13 03:18	156-60-5	
Tetrachloroethene		11900 u	g/m3	82.1	119.2		07/02/13 10:30	127-18-4	A3
Trichloroethene		138 u	g/m3	0.82	1.49		07/02/13 03:18	79-01-6	
Vinyl chloride		ND u	g/m3	0.39	1.49 🜱	1.150	07/02/13 03:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232729

QC Batch: AIR/17697		Analysis N	lethod:	TO-15			······
QC Batch Method: TO-15		Analysis D	escription:	TO15 MSV AII	R Low Level		
Associated Lab Samples: 102	32729002						
METHOD BLANK: 1469480	WWH _ M1 =	Matr	ix: Air				
Associated Lab Samples: 102	32729002						
		Blank	Reportin	g			
Parameter	Units	Result	Limit	Analyze	ed Quali	fiers	
cis-1,2-Dichloroethene	ug/m3	N	D (0.81 07/01/13 1	5:46		
Tetrachloroethene	ug/m3	N	D (0.69 07/01/13 1	5:46		
trans-1,2-Dichloroethene	ug/m3	N	D	0.81 07/01/13 1	5:46		
Trichloroethene	ug/m3	N	D (0.55 07/01/13 1	5:46		
Vinyl chloride	ug/m3	N	D (0.26 07/01/13 1	5:46		
LABORATORY CONTROL SAM	PLE: 1469481						
		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
cis-1,2-Dichloroethene	ug/m3	40.3	36.3	90	73-135		
Tetrachloroethene	ug/m3	69	66.4	96	66-135		
trans-1,2-Dichloroethene	ug/m3	40.3	34.6	86	68-129		
Trichloroethene	ug/m3	54.6	53.9	99	68-134		
Vinyl chloride	ug/m3	26	24.4	94	64-134		
SAMPLE DUPLICATE: 147001	0					·····	
		10233526001	i Dup		Мах		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
cis-1,2-Dichloroethene	ug/m3	N	D	ND		25	
Tetrachloroethene	ug/m3	N	D	ND		25	

ND

ND

ND

ND

ND

ND

ug/m3

ug/m3

ug/m3

REPORT OF LABORATORY ANALYSIS

trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

25

25

25



QUALITY CONTROL DATA

Project: 4	1754-004 Donald	sons One Hr.								
Pace Project No.: 1	10232729									
QC Batch:	AIR/17702		Analysis N	Nethod:	тс	D-15				
QC Batch Method:	TO-15		Analysis E	Description:	TC	015 MSV AIR	Low Level			
Associated Lab Samp	oles: 1023272	9001								
METHOD BLANK: 1	1469699		Matr	ix: Air						
Associated Lab Samp	oles: 1023272	9001								
			Blank	Reportin	g					
Parame	eter	Units	Result	Limit		Analyzed	d Qual	ifiers		
cis-1,2-Dichloroethen	e	ug/m3	N	D	0.81	07/01/13 18	3:16		-	
Tetrachloroethene		ug/m3	N	D	0.69	07/01/13 18	3:16			
trans-1,2-Dichloroethe	ene	ug/m3	N	D	0.81	07/01/13 18	3:16			
Trichloroethene		ug/m3	N	D	0.55	07/01/13 18	3:16			
Vinyl chloride		ug/m3	N	D	0.26	07/01/13 18	3:16			
LABORATORY CONT	FROL SAMPLE:	1469700		ana						
			Spike	LCS		LCS	% Rec			
Parame	eter	Units	Conc.	Result	9	% Rec	Limits	Qu	alifiers	
cis-1,2-Dichloroethen	e	ug/m3	40.3	47.6		118	73-135			
Tetrachloroethene		ug/m3	69	81.1		118	66-135			
trans-1,2-Dichloroethe	ene	ug/m3	40.3	47.8		119	68-129			
Trichloroethene		ug/m3	54.6	57.4		105	68-134			
Vinyl chloride		ug/m3	26	31.7		122	64-134			
SAMPLE DUPLICATE	E: 1470012									
			1023238300	2 Dup			Max			
Parame	eter	Units	Result	Result		RPD	RPD		Qualifiers	
cis-1,2-Dichloroethen	e	ug/m3	N	D	ND			25		
Tetrachloroethene		ug/m3	69.	.5	69.3		.2	25		
trans-1,2-Dichloroethe	ene	ug/m3	10	.2	10.1		1	25		
Trichloroethene		ug/m3	2	.2	2.1		3	25		
Vinyl chloride		ug/m3	N	D	ND			25		

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232729

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	4754-004 Donaldsons One Hr.				
Pace Project No.:	10232729				
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232729001	SSV-6	TO-15	AIR/17702		
10232729002	SSV-8	TO-15	AIR/17697		

Pace Analytical*

/ 02.32729 AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Inform	nation:			Section Invoice li	n C nformation	:						,			1	141	0 7F	Page:	<u>/ of</u>	1
Company Robert Elon & Asserindes	Report To:	Rant		1724:2014;170;2;4;2712.4400	Attention	" N/ice	ste Lat	Plant-	energija van Maderaliye Sterrelij	ANNO TALIYON Y	and a substantia		n na se an	ſ		P	rogran	n			
Address: 4664 Golden Pond Park Ct	Сору То:				Compan	y Name:	Lee 24	Assac	ates				an an any analy is a provident of spin and		UST	Superf	und	Emiss	ions	Clean /	Air Act
Hobact, w1 54155		a ana a.			Address	1 Golden	Bond to	-AG	· Ed bar	-170	19	415 S	۶		· Voluntary C	lean Up	ρ×D	ry Clean	RCI	łA	Other
Email To: nlaplant@refeeinc.com	Purchase Order No.;	· capacita - c. Alteriano -			Pace Qu	iote Refere	nce: 79,	17				10. 17 17 ⁻¹ 10			Location of	_		1	ug/m	<u>ng Units</u> mg/m ²	·
Phone: Fax: 920-662-9641	Dinalusons One	Hr. C	leaner	15	Pace Pro	oject Manag	ger/Sales R	ep. Cyro	yme	e [Voii	1	1		Sampling by	State			Other		Contractor or a second
Requested Due Date/TAI: Mbrmw/	Project Number; 4754	-004	1 		Pace Pit			angelikke metanakalametak			and the first state of the last state of the las	-		<u> </u>	Report Level	H	III	IV	Other_		C. The contract of the contrac
*	Valid Media Codes MEDIA CODE Tediar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	DIA CODE	ට Reading (Client only) ලි හි	POSITE START	COLLE		IPOSITE -	Lanister Pressure Initial Field - psig)	2anister Pressure Final Field - psig)	St Nu	umma Can umbei	r Co	Flow ontrol Numb	er	Method:	3h (hethan	13 (CBS) (10)	15.00 15.00	nor List		
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<i>≥ >5</i> √-8		GLC	6-	-17-13	2190	6-17-19	953	-29.5	-3.5	- }	5	2	na al escara familiato - e pe pal toto pe					X		MI - 4 - 1	
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Sample Condition (Upon Receipt	Client Name:	CALL on C.	Project #:	MOH	: 1023272	9
Courier:	Fed Ex	UPS USPS [Pace Other:	Client	1023272		1913.
racking Number:	0388360	0002-3166		*=#		
istody Seal on Cooler/	Box Present?	Yes No Seal	is Intact? Ye	s RNo	Optional: Proj. Due Date:	Proj. Name:
cking Material:	Bubble Wrap	Bubble Bags 🖉 Eoam	None]Other:		
np. (TO17 and TO13 sam mp should be above free	pples only) (°C):	Corrected Temp (°C):	The Dat	ermom. Used: e & Initials of	B88A912167504 80. Person Examining Contents:	512447 072337080 66/19/13
ana an air a tha an					Comments:	-
hain of Custody Presen	t?	XYes N	o 🗍 N/A 1.			
hain of Custody Filled C)ut?	Ares N	o 🗌 N/A 2.			
hain of Custody Reling	uished?	Yes N	o <u>N/A 3.</u>	- 	a an	
ampler Name and/or Si	gnature on COC?	Yes N	o <u>N/A 4.</u>			
amples Arrived within I	Hold Time?		o <u>N/A 5.</u>			,
hort Hold Time Analys	s (<72 hr)?	<u> </u>	o <u>N/A</u> 6.			
ush Turn Around Time	Requested?					
	· · · · · · · · · · · · · · · · · · ·		$\frac{0}{1000} = \frac{1000}{1000} =$			
-Pace Containers Use			$\Box \square N/A = 5.$			
ontainers Intact?						<u>, , , , , , , , , , , , , , , , , , , </u>
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ample Labels Match CC)C?	Yes N	o 🗍 N/A 12	2 Cans	un labeled finot	07 606
amples Received:						
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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

July 03, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232727

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

hen Kredika

Aaron Fredrikson for Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures





CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr. Pace Project No.: 10232727

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace Montana Certification #: MT CERT0092 Nebraska Certification #: Pace Nevada Certification #: MN_00064 New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232727001	SSV-9	Air	06/17/13 11:01	06/19/13 10:15
10232727002	IA-6	Air	06/17/13 06:31	06/19/13 10:15
10232727003	OA-5	Air	06/17/13 06:38	06/19/13 10:15

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project:4754-004 Donaldsons One Hr.Pace Project No.:10232727

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232727001	SSV-9	TO-15	DR1	5
10232727002	IA-6	TO-15	DR1	5
10232727003	OA-5	TO-15	DR1	5

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232727

Sample: SSV-9	Lab ID: 102	32727001	Collected: 06/17	7/13 11:01	Received:	06/19/13 10:15	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
cis-1,2-Dichloroethene	ND ug	ı/m3	1.2	2 1.49	2.298	07/02/13 02:09	156-59-2	
trans-1,2-Dichloroethene	ND ug	ı/m3	1.2	2 1.49	2.298	07/02/13 02:09	156-60-5	
Tetrachloroethene	25.6 ug	ı/m3	1.0) 1.49	3.71	07/02/13 02:09	127-18-4	
Trichloroethene	ND ug	ı/m3	0.82	2 1.49	<.150	07/02/13 02:09	79-01-6	
Vinyl chloride	ND ug	J/m3	0.39) 1.49	<.150	07/02/13 02:09	75-01-4	
Sample: IA-6	Lab ID: 102	32727002	Collected: 06/17	7/13 06:31	1 Received:	06/19/13 10:15 I	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
cis-1,2-Dichloroethene	ND ug	ı/m3	1.3	3 1.61	.323	07/02/13 02:44	156-59-2	
trans-1,2-Dichloroethene	ND ug	/m3	1.3	3 1.61	,323	07/02/13 02:44	156-60-5	
Tetrachloroethene	ND ug	ı/m3	1.1	1.61	.16	07/02/13 02:44	127-18-4	
Trichloroethene	ND ug	ı/m3	0.89) 1.61	.163	07/02/13 02:44	79-01-6	
Vinyl chloride	ND ug	ı/m3	0.42	2 1.61	-162	07/02/13 02:44	75-01-4	
Sample: OA-5	Lab ID: 102	32727003	Collected: 06/17	7/13 06:38	8 Received:	06/19/13 10:15	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
cis-1,2-Dichloroethene	ND ug	J/m3	1.3	3 1.61	<.323	07/02/13 01:35	156-59-2	
trans-1,2-Dichloroethene	ND ug	J/m3	1.3	3 1.61	<.323	07/02/13 01:35	156-60-5	
Tetrachloroethene	3.8 ug	j/m3	1.1	1.61	0.55	07/02/13 01:35	127-18-4	
Trichloroethene	ND ug	j/m3	0.8	9 1.61	<.163	07/02/13 01:35	79-01-6	
Vinyl chloride	ND ug	j/m3	0.42	2 1.61 •	<.162	07/02/13 01:35	75-01-4	



QUALITY CONTROL DATA

Project: 4754-004 Donaldsons One Hr.

Pace Project No .:

10232727

QU DAIUI. AIR/17697		Analysis Me	thod: T	O-15			
QC Batch Method: TO-15		Analysis De	scription: T	015 MSV AIR	Low Level		
Associated Lab Samples: 102327	27001, 10232727002,	10232727003					
METHOD BLANK: 1469480		Matrix	: Air				
Associated Lab Samples: 102327	27001, 10232727002,	10232727003					
		Blank	Reporting				
Parameter	Units	Result	Limit	Analyze	d Qualif	iers	
cis-1.2-Dichloroethene	 ua/m3	ND	0.81	07/01/13 15	5:46		
Tetrachloroethene	ug/m3	ND	0.69	07/01/13 15	5:46		
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/01/13 15	5:46		
Trichloroethene	ug/m3	ND	0.55	07/01/13 15	5:46		
Vinyl chloride	ug/m3	ND	0.26	07/01/13 15	5:46		
	• 1/60/81						
	:: 1469481	Spiko	109	105	% Pac		
Parameter	:: 1469481 Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
	.: 1469481 Units ug/m3	Spike Conc. 40.3	LCS Result 36.3	LCS % Rec 	% Rec Limits 73-135	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene	.: 1469481 Units ug/m3 ug/m3	Spike Conc. 40.3 69	LCS Result 36.3 66.4	LCS % Rec 90 96	% Rec Limits 73-135 66-135	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene	:: 1469481 Units ug/m3 ug/m3 ug/m3 ug/m3	Spike Conc. 40.3 69 40.3	LCS Result 36.3 66.4 34.6	LCS % Rec 90 96 86	% Rec Limits 73-135 66-135 68-129	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	:: 1469481 Units ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Spike Conc. 40.3 69 40.3 54.6	LCS Result 36.3 66.4 34.6 53.9	LCS % Rec 90 96 86 99	% Rec Limits 73-135 66-135 68-129 68-134	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride	:: 1469481 Units ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Spike Conc. 40.3 69 40.3 54.6 26	LCS Result 36.3 66.4 34.6 53.9 24.4	LCS % Rec	% Rec Limits 73-135 66-135 68-129 68-134 64-134	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride SAMPLE DUPLICATE: 1470010	:: 1469481 Units ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Spike Conc. 40.3 69 40.3 54.6 26	LCS Result 36.3 66.4 34.6 53.9 24.4	LCS % Rec 90 96 86 99 94	% Rec Limits 73-135 66-135 68-129 68-134 64-134	Qualifiers	
Parameter cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride SAMPLE DUPLICATE: 1470010	Units Units ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Spike Conc. 40.3 69 40.3 54.6 26 10233526001	LCS Result 36.3 66.4 34.6 53.9 24.4 Dup	LCS % Rec 90 96 86 99 94	% Rec Limits 73-135 66-135 68-129 68-134 64-134	Qualifiers	

Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 4754-004 Donaldsons One Hr.

Pace Project No.: 10232727

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	4754-004 Donaldsons One Hr.	
Pace Project No.:	10232727	

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232727001	SSV-9	TO-15	AIR/17697		
10232727002	IA-6	TO-15	AIR/17697		
10232727003	OA-5	TO-15	AIR/17697		

Pace Analytical www.pacelabs.com

(62-32.72.72 AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Inform	nation:			Section	n C Information:	ł,											1	1.	4()7	Page	#: 7 of	1
Company: Robert E. Lee & Associates	Report To: Willole La	Plan	ot		Attentio	" Nicol	le Las	Plan	/										Prog	jram	·			
Address: 4664 Golden Pond Park Ct	Сору То:		-11-7-11-1-10-1-10-1	24 m 2 m 16 m 20 m 2	Compar	iy Name:	ert E.	lac 9	Asso	riar	<u>les</u>					/ [~] υ	ST	Sup	erfund	ť ľ	Emiss	sions	Clean /	\ir Act
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120-062-9641 Fax:	Project Name: Donaldsons Or	ro H	•. (l	eamers	Pace Pr	oject Manag	jer/Sales R	^{ep.} G	roly	9/1C	TIa	u+				Samp	ling by	/ Stat	e _//			Other	PPMV	
Requested Due Date/TAT: Norma (Project Number: 475	<u>4-0</u>	04		Pace Pr	ofile #:			*		enta mutantiana	-		ود الأرامي ورام		Report	t Level			·	١٧	Other		Velokasekovisenna:
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Page 9 of 10

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ir Sample Condition Upon Receipt	Client Name:	3	Project #:	: 10232727	
	K obert & Lee	& ASSOR.			
Courier:	Ted Ex UPS		ent		
Fracking Number	_]Commercial]Pace 3360_002.307		102327	27	
ustody Seal on Coole	r/Box Present? Yes	No Seals Int	act? Yes XNo	Optional; Proj. Due Date: Pr	oj. Name:
acking Material:	Bubble Wran Bubble	Bags Kroam 🗆	None Other		
emp. (TO17 and TO13 sa remp should be above fr	ezing to 6°C Correction Fac	Corrected Temp (°C):	Thermom. Used Date & Initials o	: B88A912167504 80512 f Person Examining Contents:	a7 □723370 B/19
				Comments:	
Chain of Custody Prese	ent?	Yes No	□N/A 1.		
Chain of Custody Filled	Out?	Yes No	□N/A 2.		
Chain of Custody Relin	quished?	<u>⊠Ÿ</u> es □No	□N/A 3.		
Sampler Name and/or	Signature on COC?	No No	□N/A 4.		
Samples Arrived withir	n Hold Time?	⊠Yes □No	□N/A 5.		
Short Hold Time Analy	/sis (<72 hr)?	Yes XNo	□N/A 6.		· · · · · · · · · · · · · · · · · · ·
Rush Turn Around Tim	e Requested?	Yes No	□N/A 7.		
Sufficient Volume?		Yes No	□N/A 8.	•	
Correct Containers Use	ed?	K Yes □No	□n/a 9.		
-Pace Containers Us	ed?	Yes No		•	
Containers Intact?	· ·	Ves No	□N/A 10.		
Media: <u>3 Com</u>	<u> 3 FC 3</u>		. 11.		
Sample Labels Match (COC?	No Ves	□N/A 12.		
Samples Received:					
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Person Co	ntacted:		Date/Time:	· · · · · · · · · · · · · · · · · · ·	
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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

July 02, 2013

Nicole LaPlant Robert E. Lee & Associates 4664 Golden Pond Park Ct. Oneida, WI 54155

RE: Project: 4754-004 Donaldsons One Hr. Cl Pace Project No.: 10232728

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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 That

Carolynne Trout

carolynne.trout@pacelabs.com Project Manager

Enclosures





Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

CERTIFICATIONS

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.: 10232728

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: PA-0256 EPA Region 8 Certification #: Pace Florida/NELAP Certification #: E87605 Georgia Certification #: 959 Hawaii Certification #: 959 Hawaii Certification #: MN00064 Illinois Certification #: 200011 Kansas Certification #: E-10167 Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322 Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace

Montana Certification #: MT CERT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 North Dakota Certification #: R-036A Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754 West Virginia Certification #: 382 Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.: 10232728

	Sample ID	Matrix	Data Callestad	Data Bassived
10232728001	IA-8	Air	06/17/13 07:35	06/19/13 10:15
10232728002	IA-9	Air	06/17/13 06:50	06/19/13 10:15
10232728003	IA-7	Air	06/17/13 07:03	06/19/13 10:15
10232728004	OA-4	Air	06/17/13 06:46	06/19/13 10:15

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.: 10232728

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232728001	IA-8	TO-15	DR1	5
10232728002	IA-9	TO-15	DR1	5
10232728003	IA-7	TO-15	DR1	5
10232728004	OA-4	TO-15	DR1	5

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.:

10232728

Sample: IA-8	Lab ID: 1023272800	1 Collected: 06/17/	13 07:35 Received:	06/19/13 10:15 Matrix: Air	
Parameters	Results Units	Report Limit	DF Prepared	Analyzed CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	15			
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	ND ug/m3 ND ug/m3 8.5 ug/m3 ND ug/m3	1.3 1.3 1.1 0.85	1.55 < ,323 1.55 < ,323 1.55 I.23 1.55 < 0,156	07/02/13 01:00 156-59-2 07/02/13 01:00 156-60-5 07/02/13 01:00 127-18-4 07/02/13 01:00 79-01-6	
Virgi cilonae	ND Ug/113	0.40	1.55 \$ 0,194	07/02/13 01:00 75-01-4	
Sample: IA-9	Lab ID: 1023272800	2 Collected: 06/17/	13 06:50 Received:	06/19/13 10:15 Matrix: Air	
Parameters	Results Units	Report Limit	DF Prepared	Analyzed CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	15			
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride	ND ug/m3 ND ug/m3 ND ug/m3 ND ug/m3 ND ug/m3	1.4 1.4 1.2 0.92 0.44	1.68 <.347 1.68 <.347 1.68 <.174 1.68 <.168 1.68 <.169	07/01/13 22:42 156-59-2 07/01/13 22:42 156-60-5 07/01/13 22:42 127-18-4 07/01/13 22:42 79-01-6 07/01/13 22:42 75-01-4	
Sample: IA-7	Lab ID: 1023272800	3 Collected: 06/17/	13 07:03 Received:	06/19/13 10:15 Matrix: Air	
Parameters	Results Units	Report Limit	DF Prepared	Analyzed CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-1	15			
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride	ND ug/m3 ND ug/m3 3.4 ug/m3 ND ug/m3 ND ug/m3	1.3 1.3 1.1 0.89 0.42	1.61 <, 323 1.61 <, 323 1.61 0.49 1.61 .63 1.61 .63	07/02/13 00:26156-59-207/02/13 00:26156-60-507/02/13 00:26127-18-407/02/13 00:2679-01-607/02/13 00:2675-01-4	_
Sample: OA-4	Lab ID: 1023272800	4 Collected: 06/17/	13 06:46 Received:	06/19/13 10:15 Matrix: Air	·····
Parameters	Results Units	Report Limit	DF Prepared	Analyzed CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-	15			
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride	ND ug/m3 ND ug/m3 ND ug/m3 ND ug/m3 ND ug/m3	1.3 1.3 1.1 0.89 0.42	1.61 < .323 1.61 < .323 1.61 < .16 1.61 < .163 1.61 < .162	07/01/13 23:51 156-59-2 07/01/13 23:51 156-60-5 07/01/13 23:51 127-18-4 07/01/13 23:51 79-01-6 07/01/13 23:51 75-01-4	



QUALITY CONTROL DATA

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.: 1	0232728								
QC Batch:	AIR/17697		Analysis	Method:	T	D-15			
QC Batch Method:	TO-15		Analysis	Description:	т	D15 MSV AIR	Low Level		
Associated Lab Sampl	es: 10232728	3001, 10232728002	, 1023272800	3, 10232728	8004				
METHOD BLANK: 14	469480		Ma	trix: Air					
Associated Lab Sampl	es: 10232728	3001, 10232728002	, 1023272800	3, 10232728	8004				
			Blank	Repo	ting				
Paramet	er	Units	Result	Lin	it	Analyze	d Qualif	iers	
cis-1,2-Dichloroethene)	ug/m3	1		0.81	07/01/13 1	5:46		
Tetrachloroethene		ug/m3	1	٧D	0.69	07/01/13 1	5:46		
trans-1,2-Dichloroethe	ne	ug/m3	1	٧D	0.81	07/01/13 1	5:46		
Trichloroethene		ug/m3	1	٧D	0.55	07/01/13 1	5:46		
Vinyl chloride		ug/m3	1	٩D	0.26	07/01/13 1	5:46		
LABORATORY CONT	ROL SAMPLE:	1469481						pe pe a second de la constante	
			Spike	LCS		LCS	% Rec		
Paramet	er	Units	Conc.	Result		% Rec	Limits	Qualifiers	
cis-1,2-Dichloroethene	:	ug/m3	40.3	36	.3	90	73-135		
Tetrachloroethene		ug/m3	69	66	.4	96	66-135		
trans-1,2-Dichloroethe	ne	ug/m3	40.3	34	.6	86	68-129		

53.9

24.4

99

94

68-134 64-134

SAMPLE DUPLICATE: 1470010

ug/m3

ug/m3

Trichloroethene

Vinyl chloride

		10233526001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

54.6

26

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 4754-004 Donaldsons One Hr. Cl

Pace Project No.: 10232728

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	4754-004 Donaldsons One Hr. Cl
Pace Project No.:	10232728

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232728001	IA-8	TO-15	AIR/17697		
10232728002	IA-9	TO-15	AIR/17697		
10232728003	IA-7	TO-15	AIR/17697		
10232728004	OA-4	TO-15	AIR/17697		

Pace Analytical*

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. (223272)

Section A Section B Se Required Client Information: Required Project Information: Inv				Section C Invoice Information:														Page: / of /						
Company: Report To: A Robert & Lee & Associates Abrok La Plant					Attention: Aficale La Plant																			
Address: 4664 Golden And Rick Ct	Сору То:				Compan Role	y Name:	se & As	Socia	ks							177	UST	S	uperfu	und 🖓	Emissio	ns 🖇	Clean A	ir Act
Hobart. MI 54155					Address	Golde	n Rad	Park	cf. }tol	oorti (0(5	4155				ν	oluntai	ry Cie	an Up	ि र् tDr	y Clean 🗧	RCF	АСС	Other
Email To: nb plant@releginc.com	Purchase Order No.:				Pace Qu	ote Refere	nce: 7917	7								Loca	ation o	of		_	7	Reportir ug/m [•]	<u>a Units</u> mg/m³_	
Phone: 920-662-964	Project Name:	e Hr. (Clau	neks	Pace Pro	oject Mana	ger/Sales R	ep. Car	olynn	e Tr	ust					Sam	pling	by Si	tate .	w	<u> </u>	PPBV Other	PPMV_	
Requested Due Date/TAT: Norma	Project Nymber: 4794 - 00	<u>94</u>			Pace Pro	ofile #:	and any of the local division of the local d		-				مستجادها و			Repo	ort Lev	el I	l,	III	IV	Other_		ومقادلة فالشاور والأصاد المتراط
Section D Required Client Information	Valid Media Codes MECIA CODE Tediar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Cither PM10	AEDIA CODE	PID Reading (Client only)	COMPOSITE STAR	TIME		APOSITE -	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Su C Nu	mma Can mber	Co	FI ntrol	ow Num	ıber	Meth	C. Liteor	0.3 625 (2)	Od (Methano)	0-13-68) 0-14 0-14 0-14 0-14 0-14 0-14 0-14 0-14	0.15 015 Show		Pace La	sh ID
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$\overline{IA-9}$		Call.		6-17-18	0071	10-17-88	10650	-29.5	4.5	08	7/		0 2	51	9						j.	0:2	tri di in a la spirirana dad ferran	an ya 11 (an
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07-4	a a ta a a a a a a a a a a a a a a a a	64		6-16-13	2358	6-17-1	30646	-30	-5	10	70	8 -	00	56	8						X	004	2	at wiste angewenner and an and gelar
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trans-DCE, VC	L				·····	SAMPLE PRINT Name	RINAME A	Day	ATURE	<u>nst</u>	ad:	5 C1	REI	2							mp in °C	ceived on Ice	Custody led Cooler	ples Intact
ORIG	INAL				:	SIGNATURE		- Ser	ž.	>	-	1		gned (Mi		3					<u>H</u>	Вē	Seal	Sam
Pace Analytical		Document Ivo.: F-MN-A-106-rev.07 Project #:				Pace Minnesota Quality Office																		
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r Sample Condition Client Name:																								
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			•				ر در Comments:																	
Chain of Custody Present?			X Yes	No	□N/A	1.																		
Chain of Custody Filled Out?			XYes	No	□n/a	2.																		
Chain of Custody Relinquished?			Yes	No	□N/A	3.																		
Sampler Name and/or Signature on COC?			⊠Yes	No	□N/A	4.																		
Samples Arrived within Hold Time?			Yes	No	□N/A	5.																		
Short Hold Time Analysis (<72 hr)?			Yes	MNo	□N/A	6.																		
Rush Turn Around Time Requested?			Yes '	X No	N/A	7.																		
Sufficient Volume?			Yes T	<u>No</u>		8.																		
Correct Containers Used?			k Yes	∐No		9.																		
-Pace Containers Used?			Yes			10																		
Madia: UCM54FC5			Protes			10.																		
Sample Labels Match COC?			X Yes	ΠNo		12.	<u></u>																	
			<u></u>																					
amples Received:																								
Canisters		Flow Controllers			Cap ID Sample Number																			
TA. G	lace	2056	Sample N	lumber	Fr	037 2 .		Canib																
LAT-0	1 jour	 ma71		<u> </u>	Fr	03/9																		
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Person Contacted:			Date/Time:																					
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